

Faculty Outstanding Research Achievement Awards

The annual awards are part of an open competition, judged by the USF Research Council, to highlight professional acclaim received by the recipients from their national and international peers for their research.

Twenty-Six (26) Awarded in 2022 for Achievements in 2021

Kathy Black, PhD, MPH, MSG, MSW

Professor, School of Aging Studies, College of Behavioral and Community Sciences

[Dr. Black](#) is a renowned expert on healthy aging in [age-friendly community practice](#). Her research informs and inspires professionals across a range of disciplines in the built, social, and service environment. In 2021, Dr. Black received a grant to develop an Equitable Healthy Aging toolkit for the nation's community health improvement professionals, aligning the concepts of health equity and healthy aging to enhance the capacity of the nation's local health departments. The project extends Dr. Black's leadership role in age-friendly public health practice at the state, national and international level. Dr. Black also continued to lead Florida's statewide age-friendly community network in 2021, conduct advisory roles on healthy aging for the Florida Departments of Health and Transportation, and manage the state's Alzheimer's Disease and Related Disorders Training program through the Florida Department of Elder Affairs.

Patrice M. Buzzanell, PhD

Distinguished University Professor, Communication, College of Arts and Sciences

[Dr. Buzzanell](#) is a world-renowned scholar in Organizational Communication, Resilience, and Design in Engineering Education. Dr. Buzzanell's research brings together organizational sense-making, career theory, feminist workplace policies and practices, design for diversity, equity, and inclusion (DEI), and currently, theories of and scales for resilience in organizational and relational spaces. A scholar, teacher, and mentor, who has won nearly every available award in the discipline, Dr. Buzzanell continues to research and publish at a rate unparalleled by her peers. In 2021, Dr. Buzzanell was ranked in the top 2% of scientists world-wide; she was [honored with multiple national and international awards](#) (two from the most recognized ones in the discipline), delivered keynote speeches across the globe, published seven journal articles (in top-tier journals) and two refereed engineering education proceedings, six book chapters, three non-refereed journal articles, and signed a contract for a co-authored book project on ethics.

Stephanie Carey, PhD

Assistant Research Professor, Mechanical Engineering, College of Engineering

Dr. Carey's investigations of prosthetics and orthotics led to journal and conference articles and funding from the Department of Defense, U.S. Army, and Tampa VA in 2021. She also received funding from USSOCOM to develop a monitoring and alert system and will conduct another project to study performance limitations under cognitive load for the military. In collaboration with the Department of Neurology and School of Music, Dr. Carey filed a patent for a device for the treatment of dystonia. Dr. Carey has expanded her research efforts to include the effects of human spaceflight which has led to NASA funding to study [biomechanics](#) and spacesuits, and an international provisional patent for a device to synthesize compounds. Dr. Carey continues her efforts as the research coordinator for the [Center of Assistive, Rehabilitation & Robotics Technologies \(CARRT\)](#) and as a trained operator of the Computer Assisted Rehabilitation Environment (CAREN) system.

Yu Chen, PhD

Associate Professor, Molecular Medicine, Morsani College of Medicine

[Dr. Chen](#) focuses on [structure-based inhibitor design](#) targeting infection diseases and other human diseases. In 2021, he was awarded a 5-year R01 grant studying bacterial resistance against beta-lactam antibiotics with a total funding of \$3,803,725. He was also awarded an R21 grant studying the bacterial pathogen *S. aureus*, as well as serving as co-Investigator on an R01 developing novel therapeutics against COVID-19. Dr. Chen has made significant contributions to [studies of the main protease of SARS-CoV-2](#), a key antiviral target. In the past year, among a total of nine research papers, he published four on inhibitor discovery against the main protease as corresponding or co-corresponding author, in journals such as *Cell Research* (Impact factor, 25.62), *Journal of American Chemical Society* (IF, 15.42), *ACS Central Science* (IF, 14.55) and *Journal of Medicinal Chemistry* (IF, 7.45).

Jennifer Collins, PhD

Professor, School of Geosciences, College of Arts and Sciences

[Dr. Jennifer Collins](#) had 15 publications in 2021 either published (nine of them), accepted, or submitted then later accepted. On most, she lead authored or was supervisor of lead author graduate students. She included several undergraduates as coauthors. These were significant papers, such as one lead-authored by her masters student, highlighted in the Washington Post, regarding identification of the first Category 5 hurricane on record to affect the U.S. In 2021, she had three active grants, including two from NSF, and submitted four grants. Dr. Collins' work transects the fields of Geography and Meteorology. She was voted as Fellow in 2021 in both of her major organizations: the [American Meteorological Society](#) and the American Association of Geographers. She also received a scholarship from the Natural Hazards Center.

Lingling Fan, PhD

Professor, Electrical Engineering, College of Engineering

[Dr. Fan](#) is an internationally recognized leader in the field of inverter-based resource (IBR)-penetrated power grid dynamic analysis and control. She serves as the Editor-in-Chief of *IEEE Electrification Magazine* and is the PI on a multi-year \$1.5 million DOE project on solar PV modeling and analysis (2019-2023). In 2021, Dr. Fan published 10 articles in [IEEE Power and Energy Society's transactions](#), the top journals in her field, and was corresponding author and supervisor in all of them and lead author in 5. She also received a \$350,000 grant from NSF on IBR dynamic model identification using data and was elevated to IEEE Fellow for her contributions to IBR stability analysis and control in November 2021. [Dr. Fan's numerous publications](#) were cited 924 times in 2021 alone.

Howard Goldstein, PhD

Professor, Communication Sciences and Disorders, College of Behavioral and Community Sciences

[Dr. Goldstein](#) is an Associate Dean for Research and Professor of Communication Sciences and Disorders. His career accomplishments were recognized with the [2021 Kawana Award for Lifetime Achievement in Publications](#). His recent grants and publications advance knowledge of interventions to enhance readiness of students in high poverty schools who are at risk for language and reading disabilities. His research on how best to teach academic vocabulary and early literacy skills to young children has expanded into written language development. His 2021 publications represent innovative practices for assessing and teaching writing skills in kindergarten and first grade. He and his students investigated how the COVID-19 pandemic

affected speech-language pathology services and provided important information about the validity of telehealth assessments that had been called into question. His leadership also was evident in the continued development of the USF [Pandemic Response Research Network™](#) (PRRN™) and an associated publication on how universities can address global challenges.

Rasim Guldiken, PhD

Associate Professor, Mechanical Engineering, College of Engineering

In 2021, [Dr. Guldiken](#) served as the PI of a diverse research group focused on Acoustics and Engineering Education Research composed of seven PhD students, including three females and one student from an underrepresented group. Both research areas received external funding in 2021 (one from NSF, one from the U.S. Department of Transportation through industry). Along with his PhD students, Dr. Guldiken was issued two U.S. patents, filed for one U.S. patent, published two journal papers, and was invited to speak about his research on channel Fox 13. One of his PhD students received second place overall in Jabil's Innovation Technology Challenge 2021 for his dissertation project. [Dr. Guldiken's educational resources](#), shared on YouTube and supported by NSF funding, have been viewed more than 165,000 times and were watched for 10,000 hours by over 55,000 unique viewers in 2021.

Elizabeth Burke Hadley, PhD

Assistant Professor, Language, Literacy, Ed.D., Exceptional Education & Physical Education, College of Education

[Dr. Hadley's](#) research focuses on supporting early language and literacy development in children from marginalized backgrounds. Dr. Hadley received two grants from prestigious educational organizations in 2021: a Spencer Foundation Small Grant Award - awarded to less than 10% of applicants - and an American Educational Research Association Seed Grant Award. She published four articles as lead author in high-impact journals, including two publications with a doctoral student co-author. In one article, Hadley and colleagues reported findings from a vocabulary intervention; in another they examined teacher language practices. In a third article, she systematically reviewed studies on early childhood vocabulary instruction, and in a fourth article drew on these findings to communicate principles for choosing vocabulary words. In 2021, Dr. Hadley continued her commitments to community engagements with local non-profits and community partners, including Pinellas County Schools (i.e., Pre-Ks, the Center for Literacy Innovation) and Lutheran Family Services' Head Start.

Micah E. Johnson, PhD

Associate Professor, Mental Health Law and Policy, College of Behavioral and Community Sciences

[Dr. Johnson](#) is a sociologist trained in criminology and psychiatric epidemiology. His research centers around childhood trauma, behavioral health, and juvenile justice. In 2021, Dr. Johnson published five papers and was awarded \$2.3 million in NIH grants—three multi-year grants to create programs to enhance diversity in research: [Substance Misuse and Abuse Research Traineeship \(SMART\)](#), Scientific Training in Addiction Research Techniques (START), using Adolescent Brain Cognitive Development study data, and Examining the Stress Processes Relating Ethnicity and Sex to Substance Misuse and Service Outcomes (ESPRESSO). His research was cited by the New York Times, ESPN, Senator Bernie Sanders, among others. Dr. Johnson published two books in 2021: a picture book entitled Never Had a Friend, which helps to facilitate discussions of adversity and resilience, and the Little Book of Police Youth Dialogue: A Restorative Path Toward Justice, which is a leading resource for police-community relationships. Dr. Johnson also served in federal courts as an expert pioneer witness of forensic sociology.

Stephen B. Liggett, MD**Distinguished USF Health Professor of Internal Medicine, Molecular Pharmacology & Physiology, and Medical Engineering, Morsani College of Medicine**

[Dr. Liggett](#) is a Professor of Internal Medicine, Molecular Pharmacology and Physiology, and Medical Engineering. In 2021, he obtained a new R01 grant from NIH, which explores the molecular basis of biasing G protein coupled receptors (GPCRs), a concept which he has pioneered. The grant has highly molecular and computational methods, and also includes specific studies aimed at novel asthma therapy. He published four papers on GPCRs or their associated proteins, the most impactful being in PNAS which represents landmark findings using molecular and cellular biology with unique, quantum mechanics-based, 3D modeling of the biasing of a receptor complex. A patent application was submitted based on this work in 2021. Other papers such as in the *Journal of Biological Chemistry* and in the *Journal of Physical Chemistry Letters* revealed distinct elements of agonist-receptor interactions using site-directed mutagenesis and innovative computational methods. Collectively his research is relevant to [Alzheimer's, cardiovascular, and pulmonary diseases](#).

Zhuo Lu, PhD**Associate Professor, Electrical Engineering, College of Engineering**

[Dr. Lu](#) is an expert in [wireless and network system security](#). He received the NSF CAREER award in 2021 for his research project to create novel data-driven approaches to design efficient and secure wireless networks with an award amount of \$500,000. His research on network design and security in 2021 was also supported by NSF, Department of Defense, and Department of Energy (with funding totaling over \$1 million). Dr. Lu published six full research papers in top academic journals and in conference proceedings, based on identifying new vulnerabilities and creating new defenses for today's computer and wireless network security systems. In addition to academic publications, his research results also produced four reports of vulnerability and abusive behavior to major service providers in the U.S. in 2021.

Dinorah (Dina) Martinez Tyson, PhD, MPH, MA**Associate Professor, Interdisciplinary Science and Practice, College of Public Health**

[Dr. Martinez Tyson](#) is noted for her outstanding contributions in cross-cultural perspectives to the study of cancer health disparities. [Her research](#) focuses on identifying the best models and methods for adapting instrumentation and proven interventions to address health disparities across the cancer continuum. She led an exploratory sequential mixed method study, which employed a series of iterative and group consensus-building approaches, to translate and culturally adapt the previously validated CaSUN measure into Spanish, for Latino cancer survivors. In 2021, she was awarded a highly competitive PCORI grant to develop a culturally adapted online couples' communication program for Latina breast cancer patients, and brought together a diverse and highly skilled academic and community-based research team to undertake this challenging project.

Ambe Njoh, PhD**Professor, School of Geosciences, College of Arts and Sciences**

[Professor Njoh](#) is an acclaimed authority on international development, urban planning, environmental science and policy with a research focus on Africa. His publications frequently appear on the reading list of international development, urban planning and environmental courses throughout the world. In 2021, he was ranked among the top 2% of the most productive scientific researchers in the world in a Stanford University study. Also, he was an awardee of the United States' Ambassadors' Distinguished Scholar Program (ADSP) and assigned to Mekelle

University, Ethiopia. Dr. Njoh's works were cited 390 times in 2021. He was the co-author or sole author of three peer-reviewed papers published in 2021. He was the lead or sole author of four additional papers that have been accepted and are awaiting publication. Additionally, Dr. Njoh is a member of the editorial boards for the *Journal of Race, Ethnicity and the City*, and the journal *Habitat International*.

Yashwant Pathak, PhD, BPharm, MPharm, Executive MBA, MSCM, FAAAS
Professor and Associate Dean for Faculty Affairs, Pharmaceutical Science, Taneja College of Pharmacy

[Professor Pathak](#) was elected Fellow of [American Association for the Advancement of Sciences](#) (FAAAS) in 2021. Elected as Adjunct Professor at University of Airlangga, Indonesia and University of the Witwatersrand, South Africa. Dr. Pathak coordinated an Honors College course (spring and fall 2021) and a Risk Management and Nanotechnology graduate course at Taneja College of Pharmacy. He edited three books: *Emerging Technologies for Nanoparticle Manufacturing, Bioactive Peptides, and Nutraceuticals for Aging and Antiaging*, contributed 13 chapters, and eight reviews in journals with impact factors ranging from 4 to 8. Nine articles were published in journals with Honors College students as first authors. One of his reviews published in *Stem Cell Research and Therapy* (impact factor 8.0) was cited 123 times. In 2021, he received two U.S. patents. He presented several talks at international conferences in 2021, mostly online due to the Covid-19 pandemic.

Christine Ruva, PhD

Professor, Psychology, College of Arts and Sciences, Sarasota-Manatee Campus

[Professor Ruva's](#) research focuses on examining the factors that bias juror decision making and exploring mechanisms responsible for this bias, as well as possible remedies. This research has significant applied importance as juror bias can compromise a defendant's Sixth Amendment right to a fair trial and challenge the prosecution's ability to prove guilt—thus having important implications for defendants and victims. In 2021, she published a peer-reviewed article in a high-impact journal as lead author, with another accepted for publication, and a third published for which she served as supervisor of research. Additionally, she wrote two invited book chapters with the goal of giving the science to practitioners in the field (i.e., attorneys and judges). Dr. Ruva was invited to serve as lead author in the writing of an Amicus Curiae Brief for the United States Supreme Court, and as such, led a team of psycho-legal scholars to assist attorneys in writing the Brief, which was submitted to the Court in August 2021. The Brief's focus was on cognitive bias resulting from exposure to pretrial publicity that “fundamentally affects how jurors will process evidence during the trial and deliberate in the jury room.”

Jason L. Salemi, PhD, MPH, FACE

Associate Professor of Epidemiology, College of Public Health

[Dr. Salemi](#) is a nationally recognized epidemiologist with expertise in birth defects, surveillance methodology, evaluation, and research. He built a comprehensive, interactive [dashboard to track COVID-19](#), which received national attention and has been an invaluable resource for researchers, advocacy groups, county commissioners, and citizens. In 2021, Dr. Salemi conducted approximately 350 interviews to local, regional, national and international media outlets regarding COVID-19 transmission and mitigation. His presence was also evident in eleven presentations he made regarding COVID-19 at regional and state-level venues including the Hillsborough County Board of Commissioners and the Emergency Medical Planning Council. He also engaged with Publix Super Markets, Inc. to lead various townhall discussions with employees regarding COVID vaccination. Dr. Salemi had 14 publications in 2021, received the 2021 Griot Drum Community Hero award from the [Tampa Bay Association of Black](#)

[Journalists](#), the Above and Beyond Coronavirus Distinction (ABCD) award from the Society for Epidemiologic Research, and was selected as a Fellow of the American College of Epidemiology.

Joshua M. Scacco, PhD

Associate Professor, Communication, College of Arts and Sciences

[Dr. Scacco](#), a political communication scholar, is an expert on U.S. presidential communication and news media. He focuses on how political leaders, journalists, and individuals in a democracy navigate politics and governance due to technological changes in outreach and communication. In 2021, he was lead author of a book titled [The Ubiquitous Presidency: Presidential Communication and Digital Democracy in Tumultuous Times](#), published with Oxford University Press; was selected for the Judith S. Trent Award for Early Career Excellence in Political Communication from the Central States Communication Association; received a national top paper award; published four additional research pieces; worked on funded collaborations with, and delivered lectures in, the local community; and gave 37 international, national, and local news media interviews.

Natalie Scenters-Zapico, MFA

Assistant Professor of Creative Writing, English, College of Arts and Sciences

[Natalie Scenters-Zapico](#) is a nationally renowned [poet](#) who writes about the Mexico-U.S. border, femicide, and undocumented life in the United States. She is the winner of a 2021 Windham-Campbell Award from Yale University, which included a \$165,000 unrestricted grant and participation in a week-long festival featuring her work and that of the other five winners. The Windham-Campbell is an international career award that features the best writers in the English language regardless of genre and selected by an anonymous nominating committee of the best writers and editors in the country. The festival, hosted by Yale University, included featured readings, lectures, and workshops by Scenters-Zapico and was broadcast internationally. Over the course of 2021, she also published poems and signed contracts for work forthcoming in some of the best literary magazines in the country. These new poems have been or will be featured in *New England Review*, *Yale Review*, *Colorado Review*, and more.

Elizabeth Schotter, PhD

Assistant Professor, Psychology, College of Arts and Sciences

[Dr. Schotter](#) is a leading expert on [eye movements and cognition](#), and an emerging authority on the co-registration method that synchronizes measurements of EEG (i.e., “brain waves”) and eye movements in order to understand neural processes underlying skilled reading. In 2021, Dr. Schotter published three papers in the top-tier outlets in her field, including *Psychophysiology*, *Journal of Memory and Language*, and *Psychonomic Bulletin and Review*. Her work has been cited 324 times in 2021. Additionally In 2021, she was awarded seven grants totaling \$826,765 in external funding, including a three-year collaboration across institutions that investigates the contributions of visual and linguistic information to the reading process for deaf signers compared to hearing individuals, as well as a Leading Edge Workshop, co-funded by the Psychonomic Society and the National Science Foundation on the use of co-registration to study reading and visual attention.

Ankit Shah, PhD

Assistant Professor, Industrial and Management Systems Engineering, College of Engineering

[Dr. Shah](#) is the director of the Artificial Intelligence Research Laboratory for Secure Systems at USF. His research focuses on developing AI-aided methodologies that augment human

decision-making in detecting and mitigating physical and digital threats in defense and civilian applications. Dr. Shah [published](#) three papers and filed for two utility patents in 2021, demonstrating his research expertise in deep reinforcement learning (DRL) with applications in cybersecurity, military systems, and homeland security. He gave an invited talk on improving cybersecurity using DRL at the Multidisciplinary University Research Initiative Workshop on Adaptive Cyber Defense for the Army Research Office, and his paper on the development of an adversarial RL-based robust cyber alert inspection system was designated as highly relevant to developers and engineers by the Association for Computing Machinery in 2021. Dr. Shah received a \$200,000 research grant from the industry and Florida High Tech Corridor to develop an AI-enabled decision-support framework for anomaly detection in imbalanced data sets.

David S. Simmons, PhD

Associate Professor, Chemical, Biological, & Materials Engineering, College of Engineering

[Dr. Simmons](#) is an international expert on the chemical physics and design of polymers and glassy materials, as reflected by his invited book chapter, accepted in 2021, covering all of macromolecular modeling. In 2021, he received a Department of Energy (DOE) award providing over \$400,000 to understand the origins of mechanical toughness in nanocomposite rubbery polymers to enable tougher materials empowering more robust energy systems. Dr. Simmons' work published in [Nature](#) resolved the nature of the surfaces of polymer glasses—a 30-year question with implications for polymer adhesion, self-healing, and processing. A paper in PNAS provided transformational insights into how material properties are altered in thin films and nanostructured materials critical to energy, structural, and sustainability technologies. Work in *Macromolecules* further explained the flow behavior of these materials. Dr. Simmons also worked with USF's College Reach-Out Program (CROP) to create and run a summer workshop that trained high-school students from underrepresented backgrounds in programming for scientific applications.

Marilyn Stern, PhD

Professor, Child and Family Studies, College of Behavioral and Community Sciences

[Dr. Stern](#) is a Professor in the Department of Child and Family Studies whose research has focused on psychosocial oncology and obesity in children and adolescents, especially youth from racially and ethnically diverse backgrounds. She has advanced understanding of the complexities youth face when navigating post-recovery and transition to cancer survivorship. Her 2021 continued-funding NIH grants as PI support her work, notably for the development of the NOURISH-T+ intervention, a complex randomized control trial (RCT) evaluating a web-based, empirically supported, obesity intervention designed specifically for pediatric cancer survivors and their parents. Dr. Stern has also been engaged in a significant community-based NIH project implementing her intervention, ADAPT+, to assist Latino families dealing with obesity. She was named as Fellow of the [American Association for the Advancement of Science](#) (FAAAS) in 2021 and received the 2021 College of Behavioral and Community Sciences (CBCS) Outstanding Research Award for productivity over a 3-year span.

Monica Uddin, PhD

Professor, Genomics Program, College of Public Health

[Dr. Uddin's](#) innovative research seeks to identify genetic and epigenetic predictors of stress-related mental disorders, with a particular focus on depression and [post-traumatic stress disorder](#). A central theme of this work is the recognition that lived experience has a substantial impact on risk for mental disorders, and that this risk is likely mediated in part by changes to genomic biology. In 2021, Dr. Uddin was awarded duration of grant funding for two important

projects for which she serves as MPI and that all address genomic factors in traumatic stress and mental health: Epigenomic Predictors of PTSD and Traumatic Stress in an African American Cohort; The impact of traumatic stress on the methylome: implications for PTSD; and Transgenerational Epigenomics of Trauma and PTSD in Rwanda. In addition, she and her colleagues published four articles in 2021 with two additional manuscripts in press.

Thomas R. Unnasch, PhD

**Distinguished University Professor, Center for Global Health Infectious Disease Research
College of Public Health**

[Dr. Unnasch's](#) long-term [research](#) has focused on vector-borne diseases; his laboratory is involved with developing new tools to enhance the efficiency of the surveillance activities and development of molecular based methods for the detection of the black fly vector in Africa and Latin America. In 2021, Dr. Unnasch's work with USF colleagues on the development of mathematical algorithms to use data collected from screening pools of vectors – such as COVID-19 pools – to quantify the intensity of exposure in affected human populations resulted in his being one of the experts at USF and in Florida identified early in the pandemic to assist in explaining the status of transmission and mitigation.

Michael Cai Wang, PhD

Assistant Professor, Mechanical Engineering, College of Engineering

[Dr. Wang](#) received the USF Outstanding Faculty Award, USF College of Engineering Outstanding Research Achievement Award, an American Chemical Society (ACS) PRF award, and a TMS Functional Materials (FMD) Young Leaders Professional Development Award, all in 2021. Additionally, he published seven high impact journal articles (Advanced Electronic Materials [7.295], Environmental Research Letters [6.793], ACS ES&T Water, Micromachines [2.891], Materials Today [31.041], Scientific Reports [4.379]), and two conference proceedings (ASME MSEC and TMS). These scholarly outputs are the culmination of the hard work of Dr. Wang with his three PhD students and five undergraduate research assistants.

Twenty-Two (22) Awarded in 2021 for Achievements in 2020

[John H. Adams](#), PhD, FAAAS, FASTMH, Distinguished USF Health Professor and Distinguished University Professor, [Center for Global Health Infectious Disease Research \(GHDR\)](#), USF Genomics Program, College of Public Health

Dr. Adams is an international expert in malaria research. His research focuses on host-parasite interactions and improving the understanding of infection and pathogenesis in malaria. His group is actively engaged in vaccine and drug discovery projects. In 2020, he received a National Institutes of Health grant [to accelerate vaccine development for vivax malaria](#), the most prevalent type of malaria outside of the African continent. The project builds upon his group's successful development of a greatly improved liver culture system for the early infective stages of human malaria parasites.

As the lead investigator on the grant, Dr. Adams brought together an international consortium from six institutions to prepare a vaccine for clinical trial. He also the lead investigator for an NIH 2020 exploratory grant to collaborate with researchers in Thailand to evaluate the pharmacogenomics of an antimalarial drug.

Ryan Carney, PhD, MPH, MBA; Assistant Professor, Integrative Biology, College of Arts and Sciences

Dr. Carney [leads two innovative research programs](#), one in paleontology and one in epidemiology. In 2020, he was PI of a [newly-awarded NSF proposal](#) for more than \$900,000 to fight mosquito-borne diseases worldwide using artificial intelligence. A first- and senior-authored paleobiology publication in [Scientific Reports](#) on the iconic [Archaeopteryx fossil feather](#) received substantial international recognition, including *The New York Times*, and ranked 99th percentile in global coverage by Altimetric. A second paper describing [automation of mosquito identification using AI](#), which is crucial to disease-control efforts, has already been cited multiple times. His collaborative research in 2020 resulted in two new invention disclosures with plans for multiple patents. Dr. Carney's dinosaur research was featured in *National Geographic Magazine*, [National Geographic Learning's](#) global curriculum (<https://www.ryancarney.com/ngl>), and three international outreach activities with total viewership of 150,000.

Hadi Charkhgard, PhD, Assistant Professor, Industrial Engineering, College of Engineering

Dr. Charkhgard is an assistant professor in the [Department of Industrial and Management Systems Engineering](#) and the founder and director of a [multi-objective optimization laboratory](#). Dr. Charkhgard published nine journal articles in 2020 in highly-ranked journals in operations research. Additionally, he has six journal articles currently under review which were submitted last year. Dr. Charkhgard is the co-PI on a [\\$1 million grant from the U.S. Environmental Protection Agency](#) working to prevent and control harmful algal blooms in Lake Okeechobee by optimizing the implementation of technologies and practices.

In 2020, Dr. Charkhgard graduated two PhD students, applied for a U.S. Patent for his methodological invention on radiotherapy treatment planning, and submitted a scientific journal article about his invention to [Physics in Medicine and Biology](#), which was published this year.

George Davis, MD, PhD, Professor, Molecular Pharmacology and Physiology, Morsani College of Medicine

Dr. Davis is an [internationally recognized leader](#) in the field of blood vessel development and wound repair. He pioneered the use of three-dimensional collagen matrices as a platform for the study of blood vessels in the lab. [This work has explained the molecular mechanisms governing capillary development and changes](#). More recently, his research has shed light on how aberrant cell signaling can result in abnormal blood vessels. Healthy communication, or molecular signaling, inside and outside capillaries appears to play a critical role in promoting healthy tissues such as the heart, lungs and liver. Many diseases arise from abnormalities in blood vessels that fail to communicate properly with tissues. Dr. Davis has 151 publications that have been cited 762 times in 2020 alone, and has an h-index of 66. He published six peer-reviewed manuscripts in 2020; four as author and two as co-author, all in outstanding journals. In 2020, Dr. Davis was the PI on three NIH R01s grants.

Richard Heller, PhD, Professor, Medical Engineering, Morsani College of Medicine

Dr. Heller's [research](#) is focused on the delivery of plasmid DNA through pulse electric fields to solid tumors, skin, muscle, liver, heart and other tissues. In 2020, he was elected as a Fellow to the National Academy of Inventors. In addition, he continued working on four NIH grants, including three in which he serves as the PI. In 2020, he published four manuscripts in top journals, including one that was in the top 5% of all research outputs as scored by Altmetric. Dr. Heller also had four new U.S. patents issued as well as three additional patent applications filed. He was also involved in developing a new startup company focused on the technology he invented.

Mark Jaroszeski, PhD, Associate Professor, Medical Engineering, College of Engineering

Dr. Jaroszeski's research has focused on biomedical devices using pulsed electric fields for the delivery of genes and drugs, an area of research he pioneered more than three decades ago. In 2020, his efforts were focused on commercializing technology he invented while continuing to work on a recently awarded R01 with a student funded by an NIH Diversity Supplement. He was part of the founding of the startup company EF Therapeutics, Inc., located in the USF incubator. Also in 2020, eight of his USF patents were licensed. He also contributed to the creation of a new general education course on the scientific process and in efforts to better prepare students for research careers.

Dr. Autar Kaw, PhD, Professor, Mechanical Engineering, College of Engineering

Dr. Kaw's current [research areas focuses](#) on the impact of personalized and active learning on improving student achievement and on developing sustainable and quality open education resources. During 2020, he was a PI and Co-PI on three highly competitive National Science Foundation grants. In one of the grant-funded programs, he is leading four universities – USF, Arizona State University, Alabama A&M University, and University of Pittsburgh – in investigating the effectiveness of personalized learning in flipped classrooms and using learner data to design early and successful interventions for struggling students. Additionally, he gave a keynote speech at the January 2020 International Symposium on Fusion of Science & Technology conference in Faridabad, India. Also, last year he published two peer-reviewed articles on personalized engineering education and presented two papers at the American Society for Engineering Education conferences on the impact of variable grading, cumulative tests, and practice examinations on improving blended learning.

Lynn B. Martin, PhD, Professor, Global Health and Infectious Disease Research Center (GHIDR), College of Public Health

Dr. Martin is an [internationally-renowned expert](#) in disease ecology and invasive species. In 2020, he was awarded a \$1.5 million, four-year [National Science Foundation grant](#) to fund an international project on the molecular genetics of the spread of one of the world's most invasive species, the house sparrow. The research will take him, postdocs and students to Senegal, Vietnam, Norway, Spain, Australia, and New Zealand to study how the sparrows became one of the most broadly distributed animals in the world. He also submitted several other large grant proposals in 2020 which are still pending decisions. In 2020, he and his trainees and collaborators published 10 papers in high-profile journals including *American Naturalist*, *eLife*, *Proceedings of the Royal Society B*, and *Bioscience*. Two of those publications were invited (*eLife* and *Bioscience*), and all but two papers included a student or postdoc from his lab. Dr. Martin is also the co-founder and co-host of the popular podcast, [Big Biology](#).

Sunil Mithas, PhD, Professor and World Class Scholar, School of Information Systems and Management, Muma College of Business

[Dr. Sunil Mithas](#) is a Senior Editor of [MIS Quarterly](#), and Department Editor of *Production and Operations Management*, and *Management Business Review*. In 2020, he contributed nine published or forthcoming articles, of which seven are in highly selective list of business journals

considered in the University of Texas at Dallas and *Financial Times* ranking of top business schools. With his 2020 journal articles, he is based on publications in the most elite journals in his field from 2016 to 2020. In the summer of 2020, Dr. Mithas began a three-year assignment as Visiting Professorial Fellow at the School of Information Systems, Technology and Management at the [University of New South Wales Sydney's Business School](#).

Mehran Mozaffari Kermani, PhD, Associate Professor, Computer Science and Engineering, College of Engineering

Dr. Mozaffari Kermani's [research focuses](#) on the creation of novel hardware-oriented cybersecurity techniques through post-quantum and lightweight cryptography to secure critical cyber infrastructures and computer hardware systems. He is the director of [Cryptographic Engineering and Hardware Security Research Lab](#), and his research in 2020 resulted in more than \$1 million in funding and grants where he served as either PI or Co-PI. In 2020, Dr. Kermani and his PhD students published five top journal papers (*IEEE/ACM Transactions*), three flagship conference papers, and [one book chapter on hardware security in Springer Nature](#). Dr. Kermani has served as the associate editor of three prestigious journals in the field, editing more than 40 journal papers. Moreover, he was the publications chair for two prestigious conferences in the field, [CCS](#) and [HOST](#), in 2020.

Dr. Ivan Oleynik, PhD, Professor, Physics, College of Arts and Sciences

[Dr. Oleynik](#) is a fellow of the American Association for Advancement of Science (AAAS), and a fellow of American Physical Society and American Vacuum Society, is best known for his groundbreaking contributions to the field of computational materials science that led to predictions of new materials phenomena and behavior of matter at [extreme](#) conditions. In 2020, Dr. Oleynik was awarded a highly competitive and prestigious [Department of Energy Innovative and Novel Computational Impact on Theory and Experiment \(INCITE\) grant](#), which provides access to Summit, the most powerful computer in the world, with computing time equivalent to \$3 million. In 2020, he also led an international team of researchers that received another competitive and peer-reviewed award that grants access to [Z Pulsed Power Facility](#) at the Sandia National Laboratory, the most powerful radiation source in the world to perform groundbreaking experiments to uncover properties matter at extreme conditions. The award was the equivalent of \$1.2 million.

Matthew Pasek, PhD, Professor, School of Geosciences, College of Arts and Sciences

Dr. Pasek's research focuses on [geologic environments for the origin of life on the earth](#). He recently received a highly selective [Ideas Challenge prize from the Templeton Foundation](#) for work that advances "the study of goal-seeking phenomena in nature", related to his work in origins science. Dr. Pasek also authored the article "Thermodynamics of Prebiotic Phosphorylation" in *Chemical Reviews*, which has the highest impact factor of all chemistry journals. Additionally, Dr. Pasek published six more papers in 2020 and had two other papers accepted for publication. This work is in addition to ongoing NASA and NSF grants totaling more than \$1.6 million over three years. Dr. Pasek's expertise is routinely quoted in leading publications such as [Nature](#) and [The New York Times](#).

Christopher Passaglia, PhD, Professor, Medical Engineering, Morsani College of Medicine and College of Engineering

Dr. Passaglia investigates [how the eyes communicate visual information to the brain](#) under normal and diseased conditions and uses the knowledge to engineer new technologies for [monitoring and treating ocular disorders](#). In 2020, he published five papers in top journals such as *Scientific Reports* and *Journal of Physiology* that were highlighted by vision experts, broadcast on local, regional, and national media outlets, and featured on the [National Eye Institute website](#). Additionally, Dr. Passaglia was awarded two NIH R01 grants in 2020 totaling approximately \$2 million, one as co-investigator examining the effectiveness of assorted drug cocktails at promoting optic nerve regeneration and the other as a PI examining pressure fluctuations in normal and glaucomatous eyes and their effect on optic nerve health and function. He was issued [two U.S. patents](#) in 2020 based on devices that his lab created for measuring and controlling pressure within the eye or other organs.

Manh-Huong Phan, PhD, Professor and Research Faculty, Director of Advanced Materials and Sensors Laboratory, Physics, College of Arts and Sciences

In 2020, [Dr. Phan](#) published 23 peer-reviewed ISI papers in top-ranked journals, including *Advanced Materials*, *Advanced Science*, and *Materials Horizons*, highlighting the new discoveries of atomically thin quantum magnetic materials and the Giant Spin Seebeck Effect that will potentially revolutionize quantum information technology and Internet of Things. During 2020, he was one of the most highly cited researchers in his field, with more than 1,600 citations, and was featured in the list of the [World's Top 2 Percent Scientists](#). As the managing editor, Dr. Phan successfully led the *Journal of Science-Advanced Materials and Devices* to achieve its first high impact factor of 3.8 in 2020. He has secured a continuing Department of Energy grant of \$563,247 to exploit novel nanomaterials for spintronics. In 2020, he was selected for an Honorary Doctorate Degree Award by Vietnam National University - Hanoi.

Lindsey Rodriguez, PhD, Associate Professor, Psychology, College of Arts and Sciences, St. Petersburg Campus

Dr. Rodriguez' [research focuses on the important role that romantic relationships](#) play in the causes, development and maintenance of substance abuse disorders as well as on developing and evaluating interventions for addictive behaviors and relationships. In 2020, she published 20 peer-reviewed manuscripts in high-impact journals. Her [research](#) on alcohol use during the COVID-19 pandemic received [news coverage](#) from several outlets, including [NBC News](#), the [Tampa Bay Times](#), and the [National Institute on Alcohol Abuse and Alcoholism director's webinar on COVID-19 and alcohol use](#), the American Heart Association, and the [2Scientists podcast](#), among others Dr. Rodriguez was co-investigator on four new grants totaling \$200,000 in 2020. She is an action editor for *Addiction Research and Theory* and the *Journal of Studies on Alcohol and Drugs*. She presented at eight symposia and 18 posters. She also continued her funded work on three grants from the NIAAA focusing on reducing hazardous alcohol use.

Brad Seibel, PhD, Professor, Comparative Environmental Physiology (CEPh), College of Marine Science, St. Petersburg Campus

In 2020, [Dr. Seibel](#) investigated the response of marine animals to ocean warming and deoxygenation. He published a [novel quantitative relationship between the oxygen and temperature sensitivities](#) of marine animals that had gone unrecognized, despite nearly a century of study. He used this relationship to determine whether a habitat is metabolically available and how it will shift with changing climate. It precisely measures the decrement in metabolism and the scope available for growth and reproduction with declining oxygen and increasing temperature. It was used to publish a new method for determining oxygen supply capacity in animals and led to new investigations of other marine species and ecotypes, such as ram ventilation in sharks, extreme temperature sensitivity in vertical migrators, gill development in larval fishes, and the success of invasive lionfishes. Dr. Seibel published in [Nature](#) and additionally is investigating bioluminescence, exercise physiology, and the effects of ocean acidification in marine animals with funding from NSF, Office of Naval Research and the National Oceanographic and Atmospheric Administration.

Patriann Smith, PhD, Associate Professor, Language, Literacy, Ed.D., Exceptional Education & Physical Education, College of Education

[Dr. Smith pursues a transdisciplinary research agenda](#) situated at the intersection of linguistics, immigration and migration, and race in literacy education. She [advances a cross-cultural, cross-racial and cross-linguistic framework](#) for literacy and language instruction and assessment for Black immigrant students and educators. In 2020, Dr. Smith published 15 refereed articles including one in the [American Educational Research Journal](#) and another in [Reading Research Quarterly](#), the leading global journal in literacy. In 2020, she received contracts from Cambridge University Press and Teachers College Press for sole-authored and co-authored books, and was featured on [media outlets](#) and authored blog posts for the [London Society for Economics](#) United States Association for Public Policy. In 2020, Dr. Smith was elected to the Board of Directors of the national Literacy Research Association (LRA) and was a co-presenter of the report, [“Advancing Anti-Racism in Literacy Research.”](#) commissioned by LRA.

Robert H. Tykot, PhD, Professor, Anthropology, College of Arts and Sciences

Dr. Tykot is an archaeologist who studies the early history of Mediterranean civilizations. In 2020, [Dr. Tykot](#) had 10 formal publications (three as first or sole author), four technical reports, and eight published abstracts. One of his works, a major article on the chemical analysis of more than 1000 [obsidian artifacts from 10 archaeological sites](#) on Ustica is highly significant because it demonstrates the open-sea, long distance maritime travel in the sixth millennium BCE. His studies of ceramic artifacts, copper-based metals, marble, human diet, and radiocarbon dating were published in nine other articles. Dr. Tykot received funding in 2020 as the PI from the Archaeological Institute of America / National Endowment of the Humanities for a project focusing on the Central Po Valley, Italy; and as senior researcher from the National Science Foundation focusing on the Horn of Africa. He is editor-in-chief of *Science and Technology of Archaeological Research* and on the editorial board of nine other international journals.

Edelyn Verona, PhD, Professor, Psychology, College of Arts and Sciences

Dr. Verona is a Professor in Psychology, with a focus on the intersections of psychology and crime. She studies [biosocial risk factors, violence risk and prevention, and evidence-based interventions to reduce crime and incarceration](#). In 2020, Dr. Verona published or had accepted two book chapters and seven articles in top-ranked journals such as *Neuroscience & Biobehavioral Reviews*, *Personality Disorders: Theory, Research & Treatment*, and *Journal of Interpersonal Violence*. Her articles have been cited more than 5,000 times, including 450 citations in 2020. In 2020, [she secured \\$1.2 million of funding from the National Institute of Justice](#) to implement and evaluate interventions in a county jail; [co-authored an op-ed](#) in the *Tampa Bay Times*, and was invited to join the Tampa Police Department's Community Advisory Board and the American Psychological Association's Commission on Accreditation. She recently co-founded the [Center for Justice Research & Policy at USF](#), the first of its type in Florida.

Christian Wells, PhD, Professor, Anthropology, College of Arts and Sciences

Dr. Wells is the [director of USF's Center for Brownfields Research and Redevelopment](#) and a Fellow of the American Association for the Advancement of Science, recognized for his research aimed at improving human-environmental health outcomes through the redevelopment of underserved urban communities. In 2020, he partnered with the CDC of Tampa in [a \\$200,000 grant from the U.S. Environmental Protection Agency](#) to create an environmental workforce development and job training program for residents of East Tampa. This grant was the only one awarded in Florida in 2020 and the first ever awarded to a partnership with a Florida university. The program is currently training 60 residents in environmental remediation skills who will be placed in full-time jobs by the end of 2021. This project is an outgrowth of his existing interdisciplinary collaboration with USF environmental engineers, in which he serves as co-PI of a [\\$1.9 million NSF CRISP \(Critical Resilient Interdependent Infrastructure Systems and Processes\)](#) study of infrastructure in Tampa.

Henry Lee Woodcock, PhD, Associate Professor, Chemistry, College of Arts and Sciences

Dr. H. Lee Woodcock's [research is focused](#) on developing and employing computational methodology to solve critical problems where biophysics, medicine, and/or material science meets. In 2020, Dr. Woodcock co-led one of the most high-profile scientific efforts of the year in developing a new method to breakdown plastics that pollute the world. [Listed as #39 in Altmetric's most impactful scientific efforts](#) of 2020, it was described as: "A cocktail of enzymes can digest plastic up to six times faster than previous efforts. Engineers have connected two enzymes – PETase and MHETase – "like two Pac-men joined by a piece of string," providing hope for tackling society's global plastic waste problem." This work, published in *PNAS*, focused on the [development and characterization of a two-enzyme system for polyethylene terephthalate \(PET\) deconstruction](#). The discovery was covered by the world-wide media ranging from [The New York Times](#), the [BBC](#), [CNN](#), and many more. In addition to ongoing NIH and U.S. Department of Energy grants, Dr. Woodcock is in line to receive two new NIH grants for a combined total of more than \$2 million.

Sarah Y. Yuan, MD, PhD, Professor and Chair, Molecular Pharmacology and Physiology, Morsani College of Medicine

Dr. Yuan is an [internationally recognized leader in microvascular inflammation](#). Her discoveries have significantly advanced the understanding of complex interactions that regulate the vascular barrier that **separates blood from tissues** during inflammation, trauma, infection, sepsis, atherosclerosis, and diabetes, and how that process can lead to organ failure. Dr. Yuan's discoveries are frequently cited by the research communities worldwide - 241 times in 2020 alone. She had eight senior author publications in 2020 in leading journals. Also in 2020, [she was awarded the prestigious National Heart, Lung, and Blood Institute Outstanding Investigator Award](#). Dr. Yuan is the first USF faculty member to receive this particular award. The grant will provide an additional \$6.250 million over the next seven years. Additionally, she received the 2020 [Microcirculatory Society Landis Award](#) recognizing her groundbreaking contributions to the field of vascular biology.

Congratulations, faculty, on your extraordinary 2020 achievements!

Nineteen (19) Awarded in 2020 for Achievements in 2019

**Tammy Allen, PhD, Distinguished University Professor
Psychology, College of Arts and Sciences**

Dr. Allen is an international leader in the study of the intersection between work and family, employee career development, and occupational health. In recognition of her achievements, in 2019 she was awarded an honorary doctorate from the University of Neuchâtel. She was awarded visiting Fellowships at the University of Canterbury (Erskine Fellow), the University of New South Wales, and the University of Coimbra (Erasmus Mundus). During 2019, she published and had accepted 10 peer-reviewed journal articles, including two in the prestigious *Journal of Applied Psychology*. Her work was cited 3,462 times in 2019 alone. An article of Dr. Allen's was selected as a top three publication in *Personnel Psychology*. Dr. Allen was also the co-PI on a newly awarded National Science Foundation research grant to examine boundary management and career wellbeing. Additionally, she completed a two-year term in 2019 as the President of the Society for Occupational Health Psychology.

Michelle Arnold, PhD, AuD, Assistant Professor, Communication Sciences and Disorders, College of Behavioral and Community Sciences, Sarasota-Manatee campus

Dr. Arnold is a principal investigator for the Auditory Rehabilitation and Clinical Trials laboratory. Dr. Arnold's research focuses on increasing access to hearing healthcare for older and vulnerable adults. In 2019, her work was published in the *Journal of the American Medical Association (JAMA) Otolaryngology-Head & Neck Surgery*, the top-ranked journal in her discipline. Her article on hearing aid use among Hispanic/Latino adults in the US was also featured in a dedicated JAMA Network podcast in April 2019. Dr. Arnold also submitted two major extramural grants as PI: An Early Career Research R21 to the National Institutes on Deafness and Other Communication Disorders (NIDCD), which was rated favorably in June 2019 and subsequently funded in early 2020 (total costs=\$450,000), and another to the Patient Centered Outcomes Research Institute (PCORI), which received favorable reviews and is currently under revision for resubmission (total costs=\$1,100,000).

**Gil Ben-Herut, PhD, Associate Professor, Religious Studies,
College of Arts and Sciences**

Dr. Ben-Herut's research interests include pre-modern religious literature in the Kannada language, South Asian bhakti (devotional) traditions, translation in South Asia, and programming for Digital Humanities. In 2018, Ben-Herut published *Śiva's Saints: The Origins of Devotion in Kannada according to Harihara's Ragalegalu* (Oxford University Press). In 2019, it was awarded the Best First Book Award by the Southeastern Medieval Association, and went on to win in 2020 the Best Book Award from the Southeastern Conference of the Association for Asian Studies. Other major research accomplishments in 2019 include receiving a Carnegie-Whitney Grant from the American Library Association and submitting a co-edited book, *Regional Communities of Devotion in South Asia: Insiders, Outsiders, and Interlopers*, which subsequently appeared with Routledge Press in January 2020.

**Jean-François Biasse, PhD, Associate Professor
Mathematics and Statistics, College of Arts and Sciences**

Dr. Biasse's transdisciplinary work spans across number theory, quantum information science, and computer security. In particular, his research applies to the design of cryptographic schemes that will resist attacks from powerful quantum computers in the future. In 2019, Dr. Biasse received the NSF CAREER award in the amount of \$450,000. Additionally, Dr. Biasse secured in 2019 another \$16,000 from NSF and a \$75,000 grant from CyberFlorida. In 2019, Dr. Biasse had four papers accepted/published in top tier venues, and engaged in very ambitious transdisciplinary collaborations with the Colleges of Engineering, Arts, and Education. In 2019, Dr. Biasse was invited to join the editorial board of the International Journal of Computer Mathematics: Computer Systems Theory. He was invited to serve in the committee of the MathCrypt 2019 conference. Dr. Biasse also participated in exclusive invitational workshops at the American Institute for Mathematics, and at Dagstuhl Schloss.

Jianfeng Cai, PhD, USF Preeminent Professor, Chemistry, College of Arts and Sciences

Dr. Cai's research is in the area of chemical biology and bioorganic chemistry, with the focus on the development of a new class of unprecedented peptidomimetics "AApeptides" for their biological applications. In the calendar year of 2019, in addition to the ongoing two NSF grants (NSF career (fifth year) and a standard NSF (second year) and two NIH RO1 grants (one is in the fourth year and the other is in its third year), Dr. Cai received a new five-year NIH R01 award as the PI, with a total of \$1,868,750 to develop Novel polymer biomaterials combating *C. difficile* infection. Additionally, in 2019, Dr. Cai published 21 high-profile peer-reviewed papers including prestigious PNAS (IF: 9.41), J. Am. Chem. Soc. (IF: 14.61), Angew. Chem. Int. Ed. (IF: 12.96), Cell. Chem. Biol. (IF: 7.74) and others, and filed two patent applications. His PNAS work was also highlighted by F1000 Prime.

**Marleah Dean Kruzal, PhD, Associate Professor
Communication, College of Arts and Sciences**

Dr. Dean Kruzal (PhD, Texas A&M University) is an Associate Professor at USF and a Collaborator Member in the Health Outcomes & Behavior Program at the Moffitt Cancer Center. Her research program covers communication across the cancer care continuum, yet she specializes in previvors—individuals who have tested positive for a genetic variant greatly increasing their lifetime risk for hereditary cancer but who have not been diagnosed with cancer. Informed by a problem-centered approach, she seeks to identify communication challenges in stages of the cancer care continuum to ultimately improve health outcomes and patient experiences. Dr. Dean Kruzal's scholarship and translational materials have featured

on podcasts and media outlets, including her own previvor story as a part of the CDC's social media "Bring Your Brave" breast cancer campaign. In 2019 alone, she earned promotion to Associate Professor with tenure and was awarded: a Top Paper in the Health Communication Division from the International Communication Association (ICA); a CDC grant (co-PI) for \$1,800,000; and an Institutional Research Grant from Moffitt Cancer Center via the American Cancer Society (PI) for \$30,000. Additionally, Dr. Dean Kruzel published six peer-reviewed journal articles, plus one that has subsequently been accepted for publication, and one book chapter plus two others that have since been accepted for publication, and has earned increasing professional presence in national and international communication associations.

**Heather Judkins, PhD, Associate Professor, Integrative Biology
College of Arts and Sciences, St. Petersburg campus**

Dr. Heather Judkins uses cephalopods as a basis to answer multiple research questions, which include the topics such as cephalopod diversity, taxonomy, biogeography, phylogeny, and ecology. In 2019, she had five papers published or accepted in journals (i.e., *Science Communications*, *Frontiers in Marine Science*) and two graduate students successfully defended their Conservation Biology master's theses. A NOAA Ocean Exploration grant allowed for her team to be the first to view a Giant Squid in situ in the Gulf of Mexico which was a great surprise to the team and highlights the need for continued deep-sea research. She and the DEEPEND team received a NOAA RESTORE grant which allows for five more years of monitoring the midwater column (0-1500 m) in the Gulf of Mexico. Dr. Judkins is the President of the Cephalopod International Advisory Council (CIAC) until 2021. She also committed to being a co-editor for a cephalopod paralarval identification handbook (~600 pages) which will be published by Springer and contribute greatly to invertebrate researchers worldwide.

**Xiaopeng "Shaw" Li, PhD, Associate Professor and Susan A. Bracken Faculty Fellow
Department of Civil and Environmental Engineering, College of Engineering**

Dr. Li is the director of a US DOT national university transportation center, National Institute for Congestion Reduction (NICR). His major research interests include connected and automated vehicle traffic control, and connected and interdependent infrastructure systems. In 2019, he received several research grants from NSF, US DOT, US DOE, Connected Wise LLC, and the Corridor Matching Grants Research Program, amounting to \$990,000 as the PI and \$700,000 as a Co-PI. Dr. Li also published 17 peer-reviewed journal papers in 2019, among which seven were in flagship transportation engineering journals (*Transportation Research Part B* and *Transportation Science*) and 14 were led by him or his supervisees. He also established the Connected and Autonomous Transportation Systems (CATS) Lab that opened in January 2019 and developed two level-3 connected automated vehicles. The lab facilities demonstrated the USDOT CARMA 3.0 platform to the public for the first time.

**David W. Murphy, PhD, Assistant Professor
Mechanical Engineering, College of Engineering**

Dr. Murphy's research on biological, ecological, and environmental fluid mechanics took him from Bermuda to Antarctica on two NSF grants he received in 2019. He received an NSF CAREER award for his work on the fluid dynamics of insect flight and the swimming of zooplanktonic sea butterflies found around Bermuda. He also received an NSF award which took him on an Antarctic expedition in November 2019 to study krill schooling behavior. He published four peer-reviewed articles, including one in *Scientific Reports*, and joined that journal's editorial board. He and his PhD student, Ali Al Dasouqi, received a Gallery of Fluid Motion award at the American Physical Society Division of Fluid Dynamics conference for their video describing their research on bubble bursting, research which was also highlighted by

national and international media. Dr. Murphy gave three invited talks in 2019 and is co-editing a special issue of the journal *Frontiers in Marine Science*.

Ivan Oleynik, PhD, Professor, Physics, College of Arts and Sciences

Dr. Oleynik has made key contributions in several scientific disciplines, condensed matter physics, materials science and chemistry by studying materials at the atomistic and electronic structure levels. He investigates how the matter responds to extreme conditions of high pressure and temperature, and predicts properties of novel two-dimensional materials, molecular electronics and magnetic tunnel junction devices. In 2019, Dr. Oleynik was elected to lead the American Physical Society Topical Group on Shock Compression of Condensed Matter. Dr. Oleynik's outstanding scientific contributions and service to international scientific community has been recognized by his 2019 election as a Fellow of the American Association for the Advancement of Science, and the American Vacuum Society. Additionally, in 2019, he received a \$630,000 DOE grant and was awarded 500,000 node hours (5% of the entire capacity) on Summit - the fastest computer in the world, with an equivalent dollar amount of \$5,000,000.

Kyle Reed, PhD, Associate Professor, Mechanical Engineering, College of Engineering

Dr. Reed's rehabilitation research focuses on low-cost methods to restore abilities in individuals with asymmetric impairments, such as from stroke or unilateral amputations. His research on Haptics focuses on thermal responses of the skin, coordinated motions, and human-robot interaction. Dr. Reed's research in 2019 resulted in eight accepted journal papers, four patents awarded, and was awarded the ACRM Stroke Outstanding Scientific Poster Award. This award and one of his journal papers are related to his patented device that had its first commercial sale in 2019. Dr. Reed was awarded a \$480,000 NSF grant as PI in 2019, while also serving as PI on another NSF grant and co-PI on three NSF grants. He was a 2019 Core Fulbright U.S. Scholar and was elevated to Senior Member in the Institute of Electrical and Electronics Engineers (IEEE) and was one of 66 individuals nationwide inducted to the inaugural class of Senior Members in the National Academy of Inventors (NAI).

Khary Rigg, PhD, Associate Professor, Mental Health Law and Policy

Florida Mental Health Institute, College of Behavioral and Community Sciences

Dr. Rigg's research focuses on the prevention and treatment of substance use disorders, particularly among vulnerable populations. In 2019, Dr. Rigg authored nine peer-reviewed articles in top ranked journals such as *International Journal of Drug Policy*, *Drug & Alcohol Dependence*, and *Psychology of Addictive Behaviors*. One of his articles was cited more than 50 times in calendar year 2019, while another was the most downloaded paper in the *Journal of Ethnicity in Substance Abuse*. In addition, two of his other studies were commissioned for policy briefs by the Carsey Institute of Public Policy and Lerner Center for Public Health Promotion. He also recently helped secure over \$2 million in CDC funding and received the 2019 Early Career Achievement Award from the Robert Wood Johnson Foundation. In 2019, his research was also covered widely in national news outlets, such as US News & World Report, Playboy Magazine, the Lynne Freeman Radio Show, Women's Day Magazine, and the UK Daily Mail.

Jarod Roselló, PhD, Associate Professor, English, College of Arts and Sciences

In 2019, Dr. Roselló published his first children's graphic novel, *Red Panda & Moon Bear* with Top Shelf Productions, a premiere, international graphic novel publisher, whose books are distributed internationally through Penguin Random House, the world's largest publisher and distributor. *Red Panda & Moon Bear* was selected for Scholastic's Book Club and Follett Book

Fair, was named to Chicago Public Library's Best of the Best Books for Young Readers 2019, New York Public Library's Best Books for Kids 2019, received a starred review in *School Library Journal*, and was the recipient of a 2019 Nerdy Award for Graphic Novels. In 2019, Dr. Roselló gave an invited panel presentation at Comic-Con International: San Diego, appeared as a guest author at Miami Book Fair, and participated in the inaugural Breakfast Roundtable hosted by the Graphic Novel and Comics Librarian's Roundtable at the American Library Association's Annual Conference.

Helena Szépe, PhD, Professor, School of Art and Art History, College of the Arts

Dr. Szépe's research focuses on the visual and material culture of books in the era of the shift from script to print in Europe. The many new discoveries in her monograph *Venice Illuminated: Power and Painting in Renaissance Manuscripts* (Yale University Press) emerged from years of archival research in Venice, and examination of hundreds of manuscripts in public and private collections. *Venice Illuminated* was awarded two prestigious book prizes in 2019: the Delmas by the Renaissance Society of America and the Marraro through the American Historical Association. The Marraro prize notes that her book "opens new and exciting ways of thinking about Venetian art and political office-holding from the 14th to the 17th centuries." In addition to publishing extensively, Szépe has participated in curating international exhibitions and is conducting collaborative research with scholars from the University of Padua on the topic of Manuscripts and Modern Memory. Her current book project examines Venetian nuns and their illuminated manuscripts in an era when religious women came to be increasingly confined by force.

Davide Tanasi, PhD, Associate Professor, Digital Humanities, History, College of Arts and Sciences

Dr. Tanasi's research focuses on the application of chemistry, 3D digital imaging and visualization to Mediterranean archaeology and Florida historical material culture. Dr. Tanasi authored one edited volume, designed one digital humanities web-platform, and published 12 peer review articles in top-ranked journals, including *Pattern Recognition Letters*, *Science & Technology of Archaeological Research*, *Journal of Archaeological Science Report and Studies in Digital Heritage*. In 2019, he was featured as expert on national (First Coast News, WJCT Public Radio, WUSF, USF News, USF The HUB, The Conversation USA, Tampa Bay Times) and international media (Italy: Repubblica; Malta: TVM - National TV Station). He also served as scientific consultant for the Homeland Security Investigations office of the U.S. Department of Homeland Security (Florida Office of the U.S. Immigration and Customs Enforcement) for the identification and evaluation of seized archaeological artefacts.

Mark H. Taylor, PhD, CPA, Dan and Tina Johnson Distinguished Professor in Accountancy, Director, Lynn Pippenger School of Accountancy, Muma College of Business

Dr. Taylor's paper with co-authors S. Glover and Y. Wu, was published in the fall of 2019 in *Contemporary Accounting Research* and provides ground-breaking evidence about several factors that lead to differences of opinion among expert auditors and expert regulators around audits of fair value measurements (FVMs) found in the financial statements of public companies. The differences are revealed in Public Company Accounting Oversight Board (PCAOB) reports of inspections of the audits of the largest accounting firms. Dr. Taylor's second paper, with co-authors J. Pyzoha and Y. Wu, was accepted in December of 2019 for publication in the November 2020 issues of *The Accounting Review*, and examines whether tone at the top in the largest accounting firms can non-consciously affects auditors' task-level judgments, as alleged by the PCAOB. In their groundbreaking research, the authors find

evidence that such is the case. Specifically, the authors find that an audit quality approach to tone at the top reduces auditors' tendency to accept management's estimate compared to a commercial approach when a specialist is present. These studies were originally funded by the Center for Audit Quality and the results of both papers have significant implications for practitioners, regulators, standard setters and academics. Additionally, Dr. Taylor concluded a three-year term as VP, Finance, of the American Accounting Association (AAA) in 2020.

Robert H. Tykot, PhD, Professor, Anthropology, College of Arts and Sciences

Dr. Tykot published 13 peer-reviewed articles, one technical report, and eight abstracts. The publication on Lipari obsidian presents results from a National Science Foundation grant for in-depth geological survey, collection of hundreds of samples, and multi-method chemical analysis, which distinguished for the first time, five distinct subgroups. Obsidian was used for stone tools found as far as France, Croatia, and Albania, representing the maritime capabilities of early agriculturalists 8,000 years ago. This allows comparisons over time and space of the usage of different source localities and socioeconomic interpretations regarding territorial control, scale of production, and exportation. Studies of obsidian artifacts, copper-based metals, ceramics, marble, and human diet are in 12 other articles. Tykot received grants in 2019 from the National Science Foundation, National Geographic Society, Rust Family Foundation, and the Wenner-Gren Foundation. He is Editor-in-Chief of *Science and Technology of Archaeological Research* and on the editorial board for nine other international journals.

**Hsiao-Lan Wang, PhD, RN, CMSRN, ACSM EP-C, FAAN
Associate Professor, College of Nursing**

Dr. Wang's research is to improve cancer symptom management through promoting physical activity that can be translated into clinical practice. She is a doctoral prepared registered nurse, Associate Professor with tenure, and American College of Sports Medicine Certified Exercise Physiologist. In 2019, Dr. Wang published four articles with a fifth in press. She is the senior author on two articles related to symptom cluster science and VA health, lead author reporting pilot findings for her PAFitME intervention, and lead author of the first published scoping review about exercise interventions in cardio-oncology. Her outstanding service at the national and community levels led to her selection as a Fellow in the American Academy of Nursing. Finally, Dr. Wang's R01 to test the effectiveness of PAFitME intervention in head and neck cancer patients with fatigue and pain was funded for \$2,800,000.

**Attila A. Yavuz, PhD, Assistant Professor
Computer Science and Engineering, College of Engineering**

Dr. Yavuz's research focuses on the creation of novel cyber-security techniques to secure critical cyber-infrastructures and computer systems. Dr. Yavuz is the Director of Applied Cryptography Research Laboratory and the Co-Director of the Center for Cryptographic Research at the University of South Florida. His research on privacy-enhancing technologies and vehicular security has been making a significant worldwide impact on millions of users via actual deployments. In 2019, Dr. Yavuz has brought an NSF CAREER Award (one of the most prestigious awards that NSF awards for an early-career investigator), Cisco Research Award, and grants from the Department of Energy and Robert Bosch, totaling more than \$615,000 as the sole PI. Dr. Yavuz and his PhD students have published five top journal papers (IEEE/ACM Transactions), three flagship conference papers (~20% competitive acceptance rates), filed 6 invention disclosures, one license, and seven open-source software projects within 2019. His innovative research with translation potential in the field of cyber-security has been recognized by the USF Technology Transfer Office.

Congratulations, faculty, on your extraordinary 2019 achievements!

Twelve (12) Awarded in 2019 for Achievements in 2018

Jennifer Collins, PhD, Professor, Geosciences, College of Arts and Sciences

Dr. Collins is a Professor in the School of Geosciences whose research focuses on weather and climate, in particular hurricanes. Dr. Collins is the President of the West Central Florida Chapter of the [American Meteorological Society](#) (AMS) and a National Council for the American Association of Geographers (AAG). Dr. Collins recently received the Southeast Division of the AAG Research Award and the AMS Edward N. Lorenz Teaching Excellence Award, in which her research contributions were highlighted in the award dedication: *For her dedication integrating the physical and social sciences in her teaching, engagement of students, and encouragement of undergraduate research. She has a “contagious passion.”* In 2018, Dr. Collins served as editor for the book *Hurricane Risk* published by Springer, and eight articles and book chapters in top-tier journals. Her published research included work on the extremely active 2017 hurricane season; evacuee perception of geophysical hazards; the effects of social connections on evacuation decision making; and hurricane preparedness among university residential assistants and staff. In addition, she was awarded two National Science Foundation grants in 2018 and one Florida Sea Grant.

Jerri Edwards, PhD, Professor, Psychiatry and Behavioral Neurosciences, Morsani College of Medicine

Dr. Edwards is an internationally regarded expert in cognitive interventions to promote older adults' independent functioning. In 2018, Dr. Edwards' National Institutes of Health federal research funding totaled \$4.6 million, resulting in her ranking as the 8th top funded investigator in the field of psychiatry by the Blue Ridge Institute for Medical Research. In 2018, Dr. Edwards served as principal investigator of four grants and co-investigator of one grant. She also published three peer-reviewed journal articles, including serving as the lead author in a systematic review and meta-analysis of useful field of view cognitive training published in the journal *Neuroscience & Biobehavioral Reviews*, with an impact factor of 8.037. Dr. Edwards and her team are embarking on the first U.S. large primary dementia prevention trial: Preventing Alzheimer's with Cognitive Training - PACT (www.pactstudy.org).

Bryanna Fox, PhD, Associate Professor, Criminology and Florida Mental Health Institute, College of Behavioral and Community Sciences

Dr. Bryanna Fox is an Associate Professor in Criminology. She studies the predictors of criminal behavior and uses this knowledge to develop evidence-based strategies to help law enforcement prevent and solve crimes. In 2018, Dr. Fox authored 12 peer-reviewed articles featured in top-ranked journals including *Psychological Bulletin*, *Law & Society Review*, *Journal of Criminal Justice*, *Sexual Abuse*, and *Crime & Delinquency*. She also published a research-based book, two book chapters, and co-authored an op-ed in the *Tampa Bay Times*. Also, she was awarded a \$700,000 U.S. Bureau of Justice Assistance grant to develop a new strategy to reduce violence and opioid offenses in Pasco County. Dr. Fox was elected Executive Counselor of the Developmental & Life-Course Division of the American Society of Criminology, and serves on the editorial board of five prominent journals in her field. In 2018, she was a featured expert on television networks FOX, A&E, NPR, and in various national and international media outlets.

**Kathryn Hyer, PhD, MPP, Professor, School of Aging Studies,
College of Behavioral and Community Sciences**

Dr. Hyer is an international expert on evaluating quality across long-term care settings. Following her October 2017 testimony before the U.S. Senate Special Committee on Aging regarding hospitalizations and mortality outcomes in nursing homes after hurricane evacuations, she received a \$1.7 million grant from the National Institutes of Health to examine nursing home and assisted living residents' health outcomes resulting from Hurricanes Harvey and Irma. Her research included interviews with administrative staff, as well as sophisticated storm tracking and statistical approaches. Dr. Hyer also is the principal investigator on a 2018 U.S. Department of Health Resources and Services Administration grant of nearly \$782,000 to enhance the training of the geriatric healthcare workforce. In 2018, she also facilitated grant proposals by junior USF researchers funded by the Donaghue Foundation and the National Science Foundation. Dr. Hyer was selected as president of the prestigious Gerontological Society of America for a three-year term beginning in 2018.

John N. Kuhn, PhD, Associate Professor, Chemical and Biomedical Engineering, College of Engineering

Dr. Kuhn's research focuses on heterogeneous catalysis and chemical reaction engineering applied toward upgrading waste gases, including biogas and carbon dioxide. In addition to several ongoing federally and Florida High Tech Corridor Council-funded projects where he serves as either principal investigator or co-PI, his team was awarded a U.S. Department of Energy (DOE) BioEnergy Technology Office grant of more than \$1.8 million to lead a team of university, national laboratory, and industry experts to convert biogas to value-added fuels and products. His lab also received ongoing funding from the Hinkley Center for Solid Waste Management in 2018. He led a research team that published nine peer-reviewed articles, including several in journals with an impact factor greater than 10. He was also the lead researcher on three new patents and gave six invited talks in 2018.

Xiaopeng Li, PhD, Associate Professor, Chemistry, College of Arts and Sciences

Dr. Li has established a strong research program focusing on designing and characterizing supramolecules and investigating novel applications for supramolecules. In 2018, he published many papers on high impact journals including *Nature*, *Nature Communications*, *Proceedings of the National Academy of Sciences of the USA*, *Journal of the American Chemical Society*, and *Angewandte Chemie*. Dr. Li and his team were awarded a prestigious five-year RO1 grant from the National Institutes of Health (NIH) worth \$1.4 million to design and synthesis new supramolecules with antibacterial activity to fight antibiotics resistance. His research will shed light into both antimicrobial materials and supramolecular chemistry field. This year, Dr. Li was awarded the Cram Lehn Pedersen Prize in Supramolecular Chemistry. Each year, there is only one recipient from a worldwide pool of candidates for a prize named in honor of the 1987 Nobel Prize winners and highly respected by chemists worldwide.

**Sunil Mithas, PhD, Professor and World Class Scholar
Information Systems and Decision Sciences, Muma College of Business**

Dr Mithas is a senior editor of *MIS Quarterly* and *Production and Operations Management*, and department editor of *Management Business Review*. In 2018, he contributed six published or forthcoming articles in the elite University of Texas Dallas and Financial Times 50 lists of business journals. One of his papers in 2018 was named the "Best Conference Paper Runner-Up" award among more than 1,300 submissions at the premier conference in Information Systems. He is one of the "Most Prolific Authors" of *MIS Quarterly*, a premier journal in information systems area – a designation awarded to less than 1% faculty members who appear

on this global elite list of more than 4,000 academic members of the Association for Information Systems. He also ranks among the top two scholars in the world based on his record of publications in *MIS Quarterly* and *Information Systems Research* over a three-year period ending in 2018, according to AIS Research Rankings.

Manh-Huong Phan, PhD, Professor and Research Faculty, Physics, College of Arts and Sciences

Dr. Phan's world-leading expertise includes the development of new magnetic materials and sensor devices. In 2018, he published 15 peer-reviewed journal articles including a *Nature Nanotechnology* paper highlighting the new discovery of room-temperature ferromagnetism in atomically thin van der Waals materials that has the potential to transform the fields of spintronics and quantum computing. In 2018, his research was cited 1,140 times, and he delivered six invited lectures. Dr. Phan was appointed an editor for the *Journal of Electronic Materials*. He has received a new research grant of \$433,792 from VICOSTONE industry and secured a continuing U.S. Department of Energy grant of \$445,000. He also received USF's Outstanding Graduate Faculty Mentor Award Honorable Mention and The Medal for The Development Cause of Vietnam National University - Hanoi.

Thomas Pluckhahn, PhD, Professor, Anthropology, College of Arts and Sciences

Dr. Pluckhahn is a Professor in the Department of Anthropology with a specialty in archaeology of the Southeast U.S. In 2018, he published the book *New Histories of Village Life at Crystal River* with the University of Press of Florida. He also published five peer-reviewed journal articles in 2018, including one in the top-tier journal *American Antiquity*. His five book chapters for 2018 included contributions to volumes published by Routledge, the University of Alabama Press, and the University Press of Florida. He was awarded a major external award from the National Science Foundation for archaeological research in the Tampa Bay Region, while also continuing as principal investigator of two centers of the Florida Public Archaeology Network.

Amelia Shevenell, PhD, Associate Professor, Geological Oceanography, College of Marine Science

In early 2018, immediately after her latest Antarctic research was published and featured on the cover of *Nature*, Dr. Shevenell and her PhD student joined the multi-national scientific party of International Ocean Discovery Program Expedition 374 to the Ross Sea, Antarctica. The two-month expedition recovered approximately 1.8 kilometers of marine sediment that preserves 20 million years of Antarctic ice sheet evolution. Dr. Shevenell and five international scientists conceived of the \$12 million drilling expedition during a 2012 National Science Foundation-funded proposal writing workshop at USF's College of Marine Science. After the expedition, Dr. Shevenell and her collaborators were awarded \$1.2 million in research funds from NSF and the Royal Society of New Zealand to study the Ross Sea records. Also in 2018, Dr. Shevenell and her students published eight high-profile papers in journals, including *Nature Geoscience* and *Earth and Planetary Science Letters*. Dr. Shevenell also was elected the Geological Oceanographer Councilor to The Oceanography Society's governance council by the international oceanographic community.

Nathaniel von der Embse, PhD, NCSP, Associate Professor, School Psychology and Fellow of the Educational Policy Information Center, College of Education

Dr. von der Embse is an Associate Professor of School Psychology in the College of Education. His research examines effective school mental health practices and policies, including teacher well-being, universal screening for mental health risk, and population-based prevention models. In 2018, Dr. von der Embse received the Lightner-Witmer Early Career Award from Division 16

(School Psychology) of the American Psychological Association, which recognizes an early career scholar who has made distinguished contributions to the field of school psychology. In 2018, he had 11 manuscripts published and six in press in top-tier peer-reviewed journals, including the top three in his field: *Journal of School Psychology*, *School Psychology Quarterly*, and *School Psychology Review*. He has supported his research through securing highly competitive awards from federal agencies. In 2018, he received several federal grants totaling more than \$3.5 million from the Substance Abuse and Mental Health Service Agency (SAMHSA) and the National Institute for Justice (NIJ).

H. Lee Woodcock, PhD, Associate Professor, Chemistry, College of Arts and Sciences

Dr. Woodcock's research is focused on developing and employing computational methodology to solve critical problems at the interface of biophysics, medicine, and/or material science. In 2018, Dr. Woodcock co-lead one of the most high-profile scientific efforts of the year (#88 in Altmetric's most impactful scientific efforts of 2018 in their list of the top 100). This work, published in *PNAS*, focused on elucidating, characterizing, and engineering a novel enzyme that biodegrades one of the most common plastics in use today - a major factor in the global plastic pollution problem. In addition to ongoing National Science Foundation and U.S. Department of Energy Small Business Innovation Research grants, Dr. Woodcock received a new four-year NIH R01 award of nearly \$1.2 million to develop robust methods for simulating biomolecular systems. In addition to Dr. Woodcock's publication and funding record in 2018, he was part of a team awarded a patent for developing novel techniques and materials for chelating heavy metals.

Congratulations, faculty, on your extraordinary 2018 achievements!

Fourteen (14) Awarded in 2018 for Achievements in 2017

Elizabeth Aranda, PhD, Professor and Associate Dean, Sociology and Office of Communication, Community and Global Engagement, College of Arts and Sciences

Dr. Elizabeth Aranda is Professor of Sociology and Associate Dean for Communication, Community, and Global Engagement for the College of Arts and Sciences. She researches U.S. Latino and immigrant populations, focusing on Puerto Rican migration and the well-being of undocumented immigrants. In 2017, eight articles were accepted/published including peer reviewed articles and book reviews in the *American Journal of Sociology* and *Social Problems* among others; book chapters; and research-based op-eds in prestigious publication outlets, such as *The Conversation* (reprinted in national and international media outlets), and a piece in *cnn.com* that was referenced in *The New York Times* opinion page. A public intellectual, her expertise was quoted in the *Washington Post*, *CNN*, and *VOX*, among others. She was awarded a National Science Foundation Grant of \$330,000 (with Co-PIs Castaneda and Vaquera) to study the immigrant population in Tampa Bay. Aranda was elected Chair of the Latino/a Sociology section of the American Sociological Association.

Matthias Batzill, PhD, Professor, Physics, College of Arts and Sciences

Dr. Matthias Batzill's research focuses on the fundamental science of surfaces and interfaces of materials. He combines atomic-scale control in materials synthesis with elaborate characterization tools for structural and electronic properties. In 2017, he received a new 3-year, single-PI NSF grant for \$434,692 -- thus maintaining 3 simultaneous NSF awards as single or main PI. The current grant aims at furthering our understanding of two-dimensional (2D)

materials and to develop modifications of their properties by interfacing them with dissimilar materials with atomic precision. Related to this topic, Batzill published groundbreaking work in 2017 in the journals of *Nature Communications* and *Nature Chemistry*, and his pioneering work on magnetism in 2D materials was accepted for publication in *Nature Nanotechnology* in December 2017. Also in 2017, he delivered invited talks at the International Symposium of the American Vacuum Society (Tampa) and at the International Conference on Thin Films (New Delhi, India).

Paula C. Bickford, PhD, Distinguished Professor, Neurosurgery and Brain Repair, Center of Excellence for Aging and Brain Repair, Morsani College of Medicine, and Senior Research Career Scientist, James A. Haley VA Hospital

Dr. Paula Bickford is one of the world's foremost investigators in nutritional neuroscience and the innate immune system and has made significant contributions to the understanding of how changes in cellular function impact cognition and resilience to neurodegenerative diseases and brain injuries with age. In 2017, she received one new R01 multi-PI grant for *Controlling Tau toxicity from inside and outside of neurons*, and worked on eight other continuing grants from NIA, NIH, and VA. She was among the first to systematically analyze the role of CX3CL1 with targeted gene therapy for various naturally occurring forms of CX3CL1. She has also demonstrated the importance of foods that counteract innate immune changes with aging, and investigated mechanisms for these effects at the cellular level. Her research revealed it may be possible to develop therapeutics that target stem cell aging to increase lifespan or health span. Additionally in 2017, Bickford was lead on a patent, *Compositions and methods of improving cognitive performance*, and contributor on another patent, *Method of treating neurological disorders using long non-coding RNAs*. She was appointed as a fellow in the American Institute for Medical and Biomedical Engineers (AIMBE) in 2017, and served as a member of NIA-N study section as a permanent member, CMAD study section ad hoc reviewer and reviewer for VA Merit Board NURE. Bickford was also lead author on one publication in 2017, and contributing author on four others.

Jennifer Bugos, PhD, Associate Professor, School of Music, College of The Arts

Dr. Jennifer A. Bugos serves as an Associate Professor of Music Education at the University of South Florida. Her research interests include the neurological basis for music perception and cognition with regard to human development, lifespan learning, and cognitive transfer. Bugos teaches graduate and undergraduate coursework in General Music Methods, Music Cognition, and Doctoral Research Seminar. She actively mentors interdisciplinary research students from across the campus in the Music Research and Testing Lab (MRTL). Her research has been externally funded by the McKnight Brain Research Foundation, Retirement Research Foundation, National Institutes of Health, National Endowment for the Arts, GRAMMY Foundation, and the American Orff Schulwerk Association. Bugos is currently working on a project to evaluate the impact of music training on central auditory processing and cognition in healthy adults and those with mild cognitive impairment, a project funded by NIH - National Institute on Aging.

Jianfeng Cai, PhD, Professor, Chemistry, College of Arts and Sciences

Dr. Jianfeng Cai's research is focused on chemical biology and bioorganic chemistry. In 2017, in addition to the ongoing NSF Career (fourth year) and NIH RO1 (third year) grants, Cai, as the PI, received a new five-year NIH R01 award with the total of \$1,799,703 to develop novel A β peptides that disrupt A β aggregation to treat Alzheimer's disease, and also received a new three-year NSF grant with the total of \$390,000 to develop novel polymer-based antimicrobial agents. The total new funding he received in 2017 is nearly \$2.2 million. In 2017,

Cai also published 14 high-profile peer-reviewed papers and filed three patent applications. Additionally, he was recognized as the Outstanding Reviewer in 2017 by the *Journal of Medicinal Chemistry*.

Michelle Hughes Miller, PhD, Associate Professor, Women's and Gender Studies, College of Arts and Sciences

Dr. Hughes Miller is an Associate Professor in the USF Department of Women's and Gender Studies. In 2017, Hughes Miller achieved recognition for her work in diversity in STEM, analyzing the problem of campus violence, and expanding the field of motherhood studies. She published two co-edited books: *Bad Mothers: Representations, Regulations and Resistance* and *Addressing Violence Against Women on College Campuses*, and authored or co-authored six chapters in the two volumes. She also had substantial STEM-related funded research activity in 2017 with two interdisciplinary multi-year grants totaling more than \$500,000. This included a new two-year collaborative grant: *Exploring the Effects of Academic Climate and Social Networks on the Persistence of Sexual and Gender Minority STEM Undergraduates*. Her in-progress grant, *Assessing Work Design Theory*, involved interviewing USF STEM faculty. She also received two conference support grants totaling more than \$4,000 to locally launch and co-coordinate a national motherhood studies conference.

Meredith Johnson, PhD, Associate Professor, English, College of Arts and Sciences

Dr. Meredith Johnson is a recognized expert on technical communication, organizational infrastructure, and social justice. She authored a book published with Routledge in 2017, *Lean Technical Communication*. Her book analyzed fiscal limitations imposed on 21st century technical communicators and developed an innovative framework for sustaining organizations in crisis. The research is particularly timely for the guidance it offers university programs facing declining state support. The book is joined by her 2017 peer-reviewed publications and grants that examine how the labor of technical communication shapes the ethical qualities of urban spaces. This work includes her grant-funded speaker series on democracy in the post-truth era, which she conceived, coordinated, and executed to bring internationally recognized communication scholars to USF. Each speaker provided specialist knowledge to investigate social justice problems of cities. Johnson has since been awarded \$10,000 to pilot a research project investigating technical communication interventions during transportation and urban planning.

Xingmin Sun, PhD, Assistant Professor, Molecular Medicine, Morsani College of Medicine

Dr. Xingmin Sun's research focuses on the pathogenesis and antibiotic resistance of *Clostridium difficile*, host immune and inflammatory responses to *C. difficile* infection (CDI), and development of novel therapeutics against CDI. Dr. Sun is an NIH Career Development awardee. In 2017, in addition to two ongoing NIH grants (R21 from NIAID, K01 from NIDDK), Sun received one 5-year R01 (as PI) from NIAID (total \$1,923,707) with 7 percentile, one R03 (as PI) from NIDDK, one internal seed grant (as co-PI), and one contract (as co-investigator). Both R01 and R03 were awarded in the first submission. In addition, Sun filed two patent applications as the primary inventor in 2017, one of which is at the stage of "US utility application," and the second is at the stage of "US provisional application." In 2017, Sun submitted eight manuscripts as corresponding/co-corresponding author to peer-reviewed scientific journals, of which seven had been published. Sun also served on an NIH study section panel, and chaired the Bacterial Pathogenesis session during the American Society of Microbiology Southeast Branch meeting in 2017. One of his lab members also received an

Infectious Disease Fellow Award from American Society of Microbiology in 2017 for work in Sun's USF lab.

Daive Tanasi, PhD, Assistant Professor, History, College of Arts and Sciences

Dr. Davide Tanasi is an expert in the application of chemical techniques and digital tools for the study, characterization and interpretation of archaeological artifacts, sites and landscapes of the Mediterranean region. In 2017 he received \$30,000 from two funding bodies to publish a prehistoric site in Malta and to use 3D technology to document a late Roman site in Sicily. He supervised an international team of scholars which identified the chemical signature of the oldest red wine ever found in Europe. The news of the discovery, published in *Microchemical Journal*, went viral and currently has strong visibility in the media. Tanasi also filed a provisional patent as co-inventor for the implementation of a pattern recognition algorithm for automatic color classification (ARCA).

Robert H. Tykot, Ph.D., Professor, Anthropology, College of Arts and Sciences

Dr. Robert H. Tykot is a Professor in the Department of Anthropology. In 2017, he formally published 15 articles and 12 abstracts, with conference presentations in Canada, Italy, Netherlands, and Argentina. Additionally, he published three technical and two newsletter reports. One sole-authored article, in *Open Archaeology*, is on obsidian analyses and trade in the prehistoric Mediterranean, with Tykot's analyses of more than 10,000 artifacts accounting for two-thirds of all done in the past 50 years. Another sole-authored article, in *Materials Research Society Advances*, demonstrates the advanced use of nondestructive X-ray fluorescence spectrometers. The other publications are on the isotope or elemental analyses of 2,500 bone, tooth, ceramic, metal and other artifacts in his laboratory for archaeological science. Tykot also served in 2017 as editor-in-chief of the international journal *Science & Technology for Archaeological Research*, on the editorial board for eight other international journals, and as president of the International Association for Obsidian Studies.

Jing Wang, PhD, Professor, Electrical Engineering, College of Engineering

Dr. Jing Wang has published seven journal papers in 2017, with a highest impact factor of 9.237, among which he acted as the lead author for five by co-authoring with his students or visiting scholar including a paper in *Scientific Reports-Nature*. Also in 2017, he was awarded over \$900,000 in research awards as principal investigator and more than \$400,000 as co-principal investigator. Wang received three competitive peer-reviewed national research awards (two NSF and one USAF SBIR grants) totaling \$830,000. Due to the recognition of his work (publications and patents), Wang received 3 R&D contracts and matching grants by the Florida High Tech Corridor Council in 2017, totaling \$543,000, for which five of his patents were included in licensing option agreements. Particularly, the success of the 2017 Phase I contract with II-VI, has not only secured a two-year Phase II contract, but also led to three press releases in *Nasdaq GlobeNewswire*, *Semiconductor Today*, and the 2018 Florida High Tech Corridor Council annual magazine.

E. Christian Wells, Ph.D., Professor, Department of Anthropology and Director, Center for Brownfields Research, College of Arts and Sciences

Dr. Christian Wells is Director of the USF Center for Brownfields Research and Redevelopment where he practices community engaged research on environmental justice issues in the context of sustainable and equitable development. In 2017, he served as co-PI of two large sustainability grants from the National Science Foundation with \$5.9 million in funding. Wells also received (as PI) a prestigious grant from the Environmental Protection Agency – the only one awarded to a university and the only one awarded in Florida. The EPA grant allowed him to

work with residents of the University Area Community near USF to identify and clean up polluted and contaminated properties and to collaborate with nonprofit organizations to redevelop those areas into community assets. The result was the creation of Harvest Hope Park, a seven-acre recreational space that houses a beautiful playground, community garden, sports field, and other amenities that encourage community interaction, healthy eating, and environmental education.

Lilia Woods, PhD, Professor, Physics, College of Arts and Sciences

Dr. Lilia Woods continues increasing the impact of her research and leadership in the broad area of theoretical and computational condensed matter physics. In 2017, she published a diverse set of papers in premier journals, such as *Scientific Reports*, *Acta Materialia*, and *Nature Communications* covering topics from thermoelectric cloaking to Casimir forces transitions to first principles simulations of materials properties. She maintains continuous funding from the US National Science Foundation and Department of Energy. Also in 2017, Woods was recognized as the American Physical Society Woman Physicist of the Month (for June) for her research and outreach contributions, and was elected a Fellow of the American Physical Society "for her seminal contributions to the theory of fluctuation-induced and thermoelectric phenomena in condensed matter physics."

Tansel Yucelen, PhD, Assistant Professor, Mechanical Engineering, College of Engineering

Dr. Tansel Yucelen's research focuses on the discovery of novel control, information, and decision systems to reveal highly-capable autonomous vehicles and robotic swarms of the next-generation. These systems are envisioned to elevate our society and perform safety critical civilian and military applications. His laboratory, the Laboratory for Autonomy, Control, Information, and Systems (LACIS, <http://lacis.eng.usf.edu/>), places a strong emphasis on both system-theoretic research and experimentation for addressing critical real-world challenges. In 2017, he published 11 peer-reviewed journal articles, 1 book chapter, and 27 conference papers; received more than 300 (Google Scholar) citations; and secured more than \$300,000 of external grants from Air Force Research Laboratory, Air Force Office of Scientific Research, Army Research Office, Defense Advanced Research Projects Agency (through OptoXense), and Missile Defense Agency (through OptoXense). Yucelen also received the 2017 College of Engineering Junior Outstanding Research Achievement Award.

Congratulations, faculty, on your extraordinary 2017 achievements!

Seventeen (17) Awarded in 2017 for Achievements in 2016

Amy Alman, PhD, Assistant Professor, Epidemiology and Biostatistics, College of Public Health

Dr. Alman is a subject matter expert on the oral-systemic connection in cardiovascular disease (CVD) and diabetes. In 2016, she received \$628,000 for year one of a five-year, \$2,930,000 R01 grant from the National Institutes of Health (NIH) to examine the relationships between the compositional and functional characteristics of the oral microbiome, type 1 diabetes, and subclinical CVD. This project builds on her dissertation work at the University of Colorado and on pilot studies conducted since she arrived at USF to continue her focus on understanding the relationship between novel risk factors and CVD, particularly in those with type 1 diabetes.

David Arbesú, PhD, Associate Professor, Spanish, World Languages, College of Arts and Sciences

Dr. Arbesú's research focuses on Medieval and Golden Age Spain, and Transatlantic Florida Studies. He holds a B.A. and M.A. in English Philology from the University of Oviedo, and an M.A. and Ph.D. in Spanish from the University of Massachusetts Amherst. In addition to having published numerous articles in his field, in 2016 he published two books: a study and edition of *Pedro Menéndez de Avilés and the Conquest of Florida* with the University Press of Florida, and a volume on the *Complete Works of Juan Pérez de Montalbán*, with Reichenberger (Germany). In 2016, he was also appointed a member of the editorial team working on publishing Lope de Vega's 800 theatre plays.

Arthur Bochner, PhD, Distinguished University Professor, Communication, College of Arts and Sciences

Dr. Bochner received the *Lifetime Achievement Award* at the International Congress for Qualitative Inquiry (ICQI) at the University of Illinois, the highest and most prestigious honor given by the ICQI. In addition, Bochner received the *Samuel L. Becker Distinguished Service Award* from the National Communication Association, an honor bestowed annually on one scholar, from a membership of more than 7,000, judged to have made the greatest contribution to the discipline of communication during her/his career. The publication of Bochner's new book, *Evocative Autoethnography* (2016) for Routledge, inspired two special convention sessions at national and international meetings that focused on his innovative methodological work on narrative inquiry and autoethnography for which he has been recognized around the world. In 2016, Professor Bochner published one article and one book chapter, supervised two Ph.D. dissertation projects, put four new articles into press, keynoted one conference, and gave three papers at national/international meetings.

Daniel Bradley, PhD, CFA, Professor, Lykes Chair in Finance and Sustainability, Finance, Muma College of Business

Dr. Bradley is the 2016-2017 President of the Eastern Finance Association and an Associate Editor of the *Journal of Financial Research*. In 2016, he won a prestigious Fulbright award in Portugal. He co-authored six papers, which were either published or publication is forthcoming, in high quality journals in finance or its closely related fields, including three in the most prestigious journals in the discipline: *Journal of Finance*, *Journal of Financial Economics*, and *Management Science*. Bradley also has a paper forthcoming in a prestigious accounting journal: *Journal of Accounting and Economics*. His research examines issues of the influence of politics in state pension funds, the effect of labor union on innovation, and the role of experience and expertise on the performance of financial analysts.

David A. Eddins, PhD, CCC-A, Professor, Communication Sciences and Disorders and Chemical and Biomedical Engineering, Director, Auditory & Speech Sciences Laboratory, Colleges of Behavioral and Community Sciences and Engineering

Dr. Eddins is an expert in hearing and communication. His research focuses on the development and evaluation of new hearing enhancement technologies including hearing aids and assistive technology; understanding age-related hearing loss and neural plasticity; development of novel diagnostic methods; and measurement and modeling of dysphonic voice quality. Eddins began 2016 with five funded research projects (spanning each of these focal areas). During 2016, he submitted eight new research grant proposals – seven to the National Institutes of Health (NIH) and one to industry. He received four new research grants in 2016: three grants from NIH and one from the Department of Defense, and two of these grants were in the Small Business Innovation Research (SBIR) program. In addition, Eddins published three

journal articles, ten conference presentations, and served as the President of the Florida Chapter of the Acoustical Society of America.

Jay Hopler, PhD, Professor, English, College of Arts and Sciences

In 2016, Dr. Hopler published his second collection of poetry, *The Abridged History of Rainfall* (McSweeney's Poetry Series). Even before its official publication on November 16, *The Abridged History of Rainfall* was named by the National Book Foundation as a Finalist for the 2016 National Book Award in Poetry, the most prestigious literary award in the United States. *The Abridged History of Rainfall* was also awarded the 2016 Gold Medal in Poetry by the Florida Book Awards. Additionally, Hopler also published a chapbook of German translations in 2016, *The Museum of Small Dark Things: 25 Poems by Georg Trakl* (Poetry International), as well as 40 individual works in internationally renowned magazines, journals, and anthologies. Hopler holds readings of his work across the country and has been interviewed on television, radio, and in print.

Adriana Iamnitchi, PhD, Professor, Computer Science and Engineering, College of Engineering

Dr. Iamnitchi's research is at the confluence of computer science and sociology, with emphasis on understanding behavior in online networked systems. In 2016, she received a \$660,000 National Science Foundation award to investigate *Structural Anonymization Techniques for Large, Labeled, and Dynamic Social Graphs*. This project aims to provide big data owners tools to safely share their social networks data with the research community. While real, longitudinal social graph datasets are fundamental to understanding a variety of phenomena, such as epidemics, behavior adoption, and political uprisings, sharing real data is significantly hampered by serious privacy risks: even when humans' identities are removed, studies have proven repeatedly that re-identification is doable with high success rate. This project investigates and compares data anonymization techniques that probabilistically guarantee user privacy while preserving data utility. The results will alleviate privacy and security risks related to network data sharing and contribute to understanding natural and social phenomena on networks.

Ylce Irizarry, PhD, Associate Professor, English, College of Arts and Sciences

Dr. Irizarry's research considers the experiences of the fastest growing underrepresented population in the United States: Latinos. The scope and significance of her 2016 publications reflect her visibility as a scholar of Comparative Latina/o Literatures. Her book, *Chicana/o and Latina/o Fiction: The New Memory of Latinidad*, was published by the University of Illinois Press, which publishes less than 10% of all submissions received. All of her additional publications were invited: a chapter appears in a volume published by another competitive, award-winning publisher, Duke University Press; an essay appears in a special issue of the international journal annual, *Symbolism*; a book review appears in the multilingual journal of the University of Puerto Rico, *Sargasso*. In 2016, Irizarry gave three invited presentations, delivered a conference presentation in Spain, and saw her work cited in multiple peer-reviewed journals and books.

Narasaiah Kolliputi, PhD, Associate Professor, Division of Allergy and Immunology, Internal Medicine, Morsani College of Medicine, USF Health

In 2016, Dr. Kolliputi received two competitive awards from the National Institutes of Health (NIH) totaling \$766,000. Additionally, in 2016, Kolliputi made significant discoveries in elucidating the mechanisms that cause acute lung injury and acute respiratory distress syndrome, and successfully identified key molecules in the regulation of these debilitating diseases. These findings were published in six peer-reviewed publications, with five as senior author. He also served on study sections of the NIH for lung injury and breathing control and the

Department of Defense for pulmonary diseases. Kolliputi's co-authored publication was featured on the cover page and in the highlights of *Thorax*, a leading respiratory medicine journal.

Selçuk Köse, PhD, Assistant Professor, Electrical Engineering, College of Engineering

Dr. Köse's research focuses on hardware security and green computing. In 2016: he published one book, wrote twelve articles that were published or accepted in premier international journals and conferences, and received the prestigious International Cisco Research Award; his research team was supported by another prestigious award, the National Science Foundation (NSF) CAREER award, by Cisco Systems, by Florida Center for Cybersecurity, and by a Florida High Tech Corridor Council matching grant; he submitted a proposal to NSF/Semiconductor Research Corporation (SRC) that has recently been accepted; and Köse and his research team were awarded one patent for the invention of a technique to increase the security of computing systems against hardware attacks.

Stephen B. Liggett, MD, Vice Dean for Research, Associate Vice President for Research, USF Health and Professor, Internal Medicine, and Molecular Pharmacology and Physiology, Morsani College of Medicine

Dr. Liggett studies the molecular biology, physiology, and genetics of receptor signaling. These are applicable to heart failure and asthma/COPD. In 2016, he competitively renewed a National Institutes of Health (NIH) R01 grant, entitled *Molecular Properties of B-adrenergic Receptors in Asthma*, worth \$1,121,250. He also published five research papers, defining novel pathways in airway smooth muscle which explain the physiology of asthma and point towards new therapeutic agents for treatment. These publications included novel technologies that he developed for studying the mechanics of single smooth muscle cells derived from human lungs. Liggett's numerous publications have been cited more than 24,000 times and his h-index is 81.

Yao Liu, PhD, Assistant Professor, Computer Science and Engineering, College of Engineering

Dr. Liu's research is related to computer and network security. In 2016, Liu received the prestigious National Science Foundation (NSF) CAREER award, totaling \$499,950. This project has the potential to substantially improve the security of existing wireless user authentication approaches, and accordingly impacts wireless security research due to the wide adoption of these approaches in the design of wireless systems. Liu was also awarded the 2016 College of Engineering Outstanding Junior Research Achievement Award. In 2016, she had papers accepted by prestigious publication venues in the field of computer network and security, including *Institute of Electrical and Electronics Engineers (IEEE) Transactions on Mobile Computing*, *IEEE Transactions on Information Forensics and Security*, *IEEE Transactions on Dependable and Secure Computing*, *IEEE Journal on Selected Areas in Communications*, and *Association for Computing Machinery (ACM) Conference on Computer and Communications Security*.

Manh-Huong Phan, PhD, Associate Professor and Research Faculty, Physics, College of Arts and Sciences

In 2016, Dr. Phan published one textbook, one book chapter, 29 peer-reviewed journal articles, and filed one US patent of a new sensor technology for important applications in industry, army, and biomedical engineering. During 2016, he was cited 867 times, delivered four plenary/invited talks at major national and international conferences, and was also an author on 26 conference presentations. Phan serves as Managing Editor for the *Journal of Science: Advanced Materials and Devices* (Elsevier) and Associate Editor for the *Journal of Electronic Materials* (Springer), with two outstanding referee awards received from *Physica Status Solidi A* and *Journal of Alloys*

and Compounds in 2016. He jointly received a \$445,000 Department of Energy (DOE) grant in 2016, and has secured a continuing \$387,000 Army Research Office (ARO) grant (2015-2018) to exploit functional magnetic materials for advanced spintronics and energy-efficient solid-state refrigeration technology.

Ghanim Ullah, PhD, Assistant Professor, Physics, College of Arts and Sciences

Dr. Ullah is a computational biophysicist interested in a broad range of biological problems, especially neurological disorders including Alzheimer's disease, epilepsy, migraine, and stroke. In 2016, Ullah published seven peer-reviewed articles and submitted an eighth paper for publication – all as first or senior author. In August 2016, he received more than \$2.11 million in a five-year, first time investigator R01 grant from the National Institute on Aging (NIA), to investigate the calcium hypothesis for the pathogenesis of Alzheimer's disease. Once developed, this highly innovative computational framework will be applicable to many other neurodegenerative diseases. Ullah gave four invited talks in 2016 – one in Europe, two in Asia, and one in the U.S. He was also the lead/senior author on three contributed talks in 2016.

Thomas Unnasch, PhD, USF Health Distinguished Professor, Chair, Global Health and Interim Chair, Environmental and Occupational Health, College of Public Health

During 2016, Dr. Unnasch and his collaborators published 14 research articles in peer reviewed literature, including papers in *PLOS Neglected Tropical Diseases*, *Proceedings of the Royal Society of London* and *Nature Microbiology*. He received a new National Institute of Allergy and Infectious Diseases (NIAID) five-year, individual research, R01 grant to conduct research on vector control measures to supplement mass drug distribution for the elimination of river blindness. His laboratory was also one of four that form the Southeastern Center of Excellence for Research in Vector Borne Diseases – one of only four such centers designated by the Centers for Disease Control and Prevention.

Sameer Varma, PhD, Associate Professor, Cell Biology, Microbiology and Molecular Biology, College of Arts and Sciences

In 2016, Dr. Varma received a \$904,000 R01 award from the National Institutes of Health to support the development of new methods for carrying out accurate simulations of biological ionic interactions. This theoretical work will yield new atomic-level insight into the fundamental forces that drive biomolecular function, and also produce new software and tools that will be made freely available to the scientific community. In 2016, Varma's group contributed to six articles published in high-impact factor journals, two of which were with experimental collaborators at USF. In addition, his group released two new scientific software tools that have been downloaded more than 200 times.

Qiong Zhang, PhD, Associate Professor, Civil and Environmental Engineering, College of Engineering

Dr. Zhang's research focuses on sustainability assessment and system modeling, with applications in drinking water and wastewater treatment processes, wastewater-based algae systems, and waste-based resource recovery systems, and the water-energy nexus. In 2016, Zhang began her second year of a five-year, National Science Foundation (NSF) CAREER grant for \$501,886, and was also awarded a highly competitive, \$1.96 million, four-year, NSF Critical Resilient Interdependent Infrastructure Systems and Processes (CRISP) grant to support a community-engaged project, working with major utilities in the city of Tampa to improve the resiliency of our critical infrastructures including water, wastewater, storm water, transportation, and cybersecurity. This cutting-edge research involves an interdisciplinary team of faculty and students from across the university, including environmental engineering,

transportation, computer science, industrial engineering and anthropology. In 2016, Zhang's research on these and related issues resulted in 16 publications in international sustainability science journals, including *Environmental Science and Technology* and *Water Research*, high profile journals in the field of civil and environmental engineering.

Congratulations, faculty, on your extraordinary 2016 achievements!

Ten (10) Awarded in 2016 for Achievements in 2015

Kathy Black, PhD, Professor, Aging Studies and Social Work, College of Liberal Arts & Social Sciences, Sarasota-Manatee Campus

In 2015, Dr. Kathy Black began leading Age-Friendly Sarasota – Florida's first global age-friendly community, with support from The Patterson Foundation, and in partnership with the World Health Organization, AARP Florida, the Florida Department of Elder Affairs, Sarasota County Government, the USF Florida Policy Exchange Center on Aging, as well as her home institution at the Sarasota-Manatee campus. In 2015, she made more than 50 television, radio, newspaper, and magazine appearances to share her work. A highly sought-after speaker, Black has also been invited to present about the work at national, statewide, regional and local venues in 2015. In addition, she received the USF Women in Leadership and Philanthropy Research Award and published three peer reviewed publications in 2015.

Carolyn Ellis, PhD, Distinguished University Professor, Communication, College of Arts and Sciences

Dr. Carolyn Ellis received the National Communication Association (NCA) Distinguished Scholar Award for a lifetime of scholarly achievement in the study of human communication. This is NCA's highest career achievement award, and was awarded to only two scholars in 2015 from a membership of over 7,000. She was honored in an NCA session for winning the Woolbert Research Award, given to her chapter, with 3,334 citations, that has "stood the test of time" and has become a stimulus for new conceptualizations of communication research. During 2015, she published a book with Oxford University Press and completed another with Routledge, released March 2016. Both are on autoethnography, an approach for which she has been recognized as founder and developer. At two 2015 national conferences, Ellis screened a film she produced and directed in Poland about the memories of a Holocaust survivor, and also completed a second film and presented ten additional conference papers on autoethnography and compassionate research.

Maureen Groer, RN, PhD, FAAN, Gordon Keller Endowed Professor, Nursing, College of Nursing, USF Health

Dr. Groer's research focuses on the interactions of stress, mood, behavior and biology in women and infants. She is an expert in breastfeeding and the infant microbiome. In 2015, Groer was awarded a \$2.7 million, five-year, R01 grant from the National Institute of Nursing Research (NINR) to study preterm infants' gut microbiome and its effect on their growth and development at two and four years of age. Multiple factors potentially could alter the microbial species and diversity in preterm infants' guts. Alterations in the infant gut microbiome are likely to affect health, but have not been examined. In this highly innovative and novel project, Groer is one of the first to characterize the microbiome of Very Low Birth Weight (VLBW) infants, to elucidate the succession of the microbiome over the first four years of life, and to determine the microbiome's importance to early and later health outcomes. Also in 2015, Groer published 12 articles in highly regarded peer-reviewed journals.

David E. Kang, PhD, Associate Professor, Molecular Medicine, Morsani College of Medicine / Byrd Alzheimer's Institute, USF Health

Dr. Kang's research focuses on the mechanisms of neurodegeneration in Alzheimer's disease and related neurodegenerative disorders. In 2015, Kang and his research team discovered how neurotoxic signals from amyloid are transmitted from the neuronal surface to induce damage to the cytoskeleton, mitochondria, and synapses in brain. These findings were recently published in *Nature* publishing group journals, *Cell Death and Differentiation* and *Cell Death and Disease*. Also in 2015, Kang was awarded more than \$1 million from the VA Merit Review Award, more than \$400,000 from the National Institutes of Health (NIH), \$200,000 from the Ed and Ethel Moore Research Foundation, and received a fundable 5 percentile score on a second \$400,000 NIH grant. He also served on the NIH Clinical Neuroscience and Neurodegeneration (CNN) Study Section.

Russell S. Kirby, PhD, MS, FACE, Distinguished University Professor and Marrell Endowed Chair, Community and Family Health, College of Public Health, USF Health

Dr. Kirby is a perinatal/pediatric epidemiologist and human geographer with broad ranging research interests. In 2015, he received two national awards for his research and its application to practice, the Distinguished Scholar Award for research published in *Birth Defects Research Part A*, and the John A. MacQueen Award and Memorial Lecture from the Association of Maternal and Child Health Programs. The latter is one of the two highest honors given annually in the maternal and child health profession. Kirby published 16 peer-reviewed scientific papers as well as several other writings during 2015, serving as senior author or mentor on most of these publications. He continues to successfully seek external funding for the USF Birth Defects Surveillance Program, and was awarded three new grants and contracts during 2015. According to Google Scholar, Kirby had more than 1,500 citations of his published work during calendar year 2015.

Jason Rohr, PhD, Associate Professor, Integrative Biology, College of Arts and Sciences

Dr. Rohr's research investigates interactions among pollution, climate change, and infectious diseases of humans and wildlife. During 2015, he was cited nearly 700 times and had 16 peer-reviewed publications accepted or appear in print, three of which were published in the prestigious *Proceeding of The National Academy of Sciences of the United States of America (PNAS)*. Rohr's research was also highlighted in *Faculty1000* and in the journals *Science*, *PNAS*, and *Journal of Applied Ecology*. He was also awarded five externally funded grants in 2015 totaling more than \$5 million, and had six other active grants in 2015 totaling over \$3 million. Rohr was Elected President of the Disease Ecology Section of the Ecological Society of America, was part of a team that was invited to present their research at the White House, and was nominated for two national awards and one teaching award, all in 2015.

Carla Smith Stover, PhD, Assistant Professor, Mental Health, Law and Policy, College of Behavioral & Community Sciences

In 2015, Dr. Stover published eight journal articles focusing on the development and evaluation of interventions for families impacted by violence and substance abuse. One described her integrated intervention for fathers with co-occurring problems with substance use and intimate partner violence (IPV) that shows promise in reducing violence, substance use, and child maltreatment. She received a \$672,000 R34 research grant from the National Institute on Drug Abuse (NIDA) in September 2015 to further develop her intervention, *Fathers for Change*, for implementation in residential substance abuse treatment programs. She is also co-investigator on a \$2 million grant from the National Institute of Child Health and Human Development (NICHD), awarded in August 2015, to test a co-parenting intervention for at-risk African

American parents and to assess its prevention of IPV. Her 2015 paper in *Journal of the American Academy of Child and Adolescent Psychiatry (JAACAP)* is the first to examine the spill-over of marital hostility to parenting to child aggression from infancy through the school aged period in a genetically informed design. Additionally, Dr. Stover was the keynote speaker at the Nordic Domestic Violence Conference in Oslo, Norway, in November 2015.

Shannon Suldo, PhD, Professor, Educational & Psychological Studies, College of Education

In 2015, Dr. Suldo received a \$1.5 million multi-year grant from the Institute of Education Sciences (IES) to develop preventative and early interventions for high school students in high-stress college-level courses. These interventions target the malleable factors, such as strategies for coping with academic demands and student engagement that a multi-disciplinary research team in the College of Education identified as predictive of student success. She also completed a trade book for professionals in 2015, entitled, *“Promoting Student Happiness: Positive Psychology Interventions in Schools.”* This commissioned text is part of the popular *“Guilford Practical Intervention in the Schools Series,”* developed to translate research to practice for mental health professionals. Additionally, in 2015, Suldo was nominated and elected to member status in the most highly-regarded academy within the field of school psychology – the Society for the Study of School Psychology (SSSP), reflecting her sustained contributions to advance basic and applied scientific research in school psychology.

Jun Tan, MD, PhD, Professor and Silver Endowed Chair, Psychiatry, Morsani College of Medicine, USF Health

In 2015, Dr. Tan received two competitive peer-reviewed awards from the National Institutes of Health (NIH) and the Florida Department of Health: an R21 grant and an award from the Ed and Ethel Moore Alzheimer’s Disease Research Program. Tan is also the Principal Investigator on two continuing grants focused on aging and Alzheimer’s disease (AD) – an NIH R01 and a VA Merit award, totaling \$722,826 annually. Tan’s group investigates the ability of oral diosmin to reduce memory impairment in AD mice; work that may lead to clinical trials testing this compound in patients at high risk for AD. Also in 2015, Tan published ten papers representing rigorous studies on the complex signaling networks in the brain.

Lilia M. Woods, PhD, Professor, Physics, College of Arts and Sciences

Dr. Woods received a \$300,000 Department of Energy (DOE) grant in 2015, entitled, *Fluctuation Induced Interactions in Novel Materials.* This work will study fundamental interactions in Dirac materials with topologically non-trivial phases, which have many emerging properties and applications. In addition, Woods has a continuing \$380,315 National Science Foundation (NSF) award, from 2014 to 2018, to investigate materials for thermoelectric energy conversion. Woods also published four peer-reviewed articles in 2015 as senior author, with another article accepted in 2015 for publication in 2016. Woods gave three invited talks in 2015 – two in Europe and one in the U.S. She was also an author on four contributed conference talks and a poster.

Congratulations, faculty, on your extraordinary 2015 achievements!

Thirteen (13) Awarded in 2015 for Achievements in 2014

Jianfeng Cai, PhD, Associate Professor, Chemistry, College of Arts and Sciences

Dr. Cai received the NSF-CAREER award in 2014 for his research entitled, *CAREER: Lip-cyclic Antimicrobial Peptidomimetics that Disrupt Bacterial Membranes*. This project focuses on the design and synthesis of a new class of peptidomimetics and investigation of their action on the bacterial membranes. The research project was funded with a five-year, \$500,000 grant beginning July 2014. This award is part of the Department of Chemistry's long standing drug discovery effort and is directed towards the development of new pharmacologically active molecules with high selectivity towards a broad spectrum of bacteria. In addition to the NSF CAREER award, Cai published 14 peer reviewed papers in very high impact journals relating to drug discovery as well as a book chapter entitled, *Peptidomimetics as antimicrobial agents, Novel Antimicrobial Agents and Strategies* in 2014. In addition, he filed a patent application entitled, *Identification of Novel Inhibitors that Disrupt STAT3/DNA Interaction from γ -peptide, OBOC Combinatorial Library*.

Tiffany Chenneville, PhD, Associate Professor, Psychology, College of Arts and Sciences, St. Petersburg Campus

Dr. Chenneville's program of study focuses on ethical issues related to pediatric HIV research and treatment. She recently received the Chancellor's Award for Excellence in Research at the St. Petersburg campus, an honor reserved for only the most accomplished scholars. She also recently obtained the Women in Leadership and Philanthropy Award. In 2014, Chenneville published four peer reviewed journal articles in high profile journals in her area to include *AIDS Patient Care and STDs*, *Journal of HIV/AIDS and Social Services*, *Ethics and Behavior*, and the *Journal of Empirical Research on Human Research Ethics* and a peer reviewed book chapter in a seminal volume published by school psychology's primary organization, the National Association of School Psychologists, distinguishing her as an expert in the area of pediatric HIV. Dr. Chenneville also received the inaugural Global Pediatric HIV Research Award, a \$40,000 grant that will fund a collaborative project with Springs of Hope Kenya, an orphanage for children with HIV.

Swaroop Ghosh, PhD, Assistant Professor, Computer Science and Engineering, College of Engineering

Dr. Ghosh received a 2014 National Science Foundation (NSF) award of nearly \$500,000 for research on *Exploiting Spintronics for Security, Trust and Authentication*. He published six IEEE journal articles, three of which are special issues, with a cumulative impact factor of 10.47. Additionally, he published 10 IEEE papers in very competitive conferences such as Design Automation Conference, International Solid State Circuit Conference, and Design, Automation and Test in Europe. His team won third place in the prestigious Embedded System Competition in Cyber Security Awareness Week Conference. He was elected as associate editor of IEEE Transactions on Circuits and Systems-1 and to the technical advisory board of Hakham Systems. Ghosh filed three patents and served in program committees of prestigious conferences such as DAC, DATE and ISLPED. He chaired several conference sessions and organized a PhD forum and a special issue of the IEEE Journal.

Nataša Jonoska, PhD, Professor, Mathematics and Statistics, College of Arts and Sciences

Dr. Jonoska's research interests are in theoretical and computational models of molecular self-assembly. Her research is driven by the issue of how biology computes, in particular using formal models such as cellular or other finite types of automata, symbolic dynamics, and

topological graph theory to describe recombinant DNA processes and molecular computation. Jonoska's research was supported by NIH and NSF, and in 2014, she was elected as Fellow of AAAS and awarded with the Pascal Professorship at the University of Leiden. She and a co-author from University of Milano-Bicocca in Italy solved a long-standing open problem about the characterization of a set of sequences obtained as a result of splicing, a theoretical model for describing actions of endonuclease enzymes on DNA sequences. Additionally, Jonoska and two co-authors obtained the best paper award at the Unconventional Computing and Natural Computing Conference in 2014 for their paper characterizing certain crystallographic structures.

Shengqian Ma, PhD, Associate Professor, Chemistry, College of Arts and Sciences

Dr. Ma has received several prestigious awards in 2014, including an NSF-CAREER award entitled, *CAREER: Development of Mesoporous Metal-Organic Frameworks as a New Type of Platform for Enzyme Immobilization* (\$575,000, five years) as well as a Department of Energy grant entitled, *Functionalized Porous Organic Polymers as Uranium Nano-Traps for Efficient Recovery of Uranium from Seawater* (\$399,000, three years). In addition to funding, Ma's research relating to mercury remediation was published in *Nature Communications*, along with eleven additional peer reviewed articles published in very high-impact journals. In 2014, Thomson Reuters listed him as one of the most Highly Cited Researchers, and also as one of the World's Most Influential Scientific Minds.

John Mayer, DC, PhD, Professor, Physical Therapy & Rehabilitation Sciences, Morsani College of Medicine

Dr. Mayer's research efforts are aimed at developing and assessing the effectiveness of targeted exercise approaches for the back and core muscles to reduce risk of back injury and improve resilience in high risk occupations, such as emergency responders and military personnel. In 2014, Mayer was awarded \$1.3 million in research funding from FEMA, making it the largest single commitment from FEMA's Assistance of Firefighters Grants, Fire Prevention and Safety research program specifically aimed at interventions for back injury prevention. He was appointed as Scientific Secretariat for the Global Spine Care Initiative as well as a member of the Firefighter Health Research Alliance. Additionally, Mayer was the recipient of the George B. McClelland Researcher of the Year Award from the American Chiropractic Association.

Frank Muller-Karger, PhD, Professor, Biological Oceanography & Remote Sensing, College of Marine Science

Dr. Muller-Karger is a biological oceanographer who uses satellite remote sensing data. Muller-Karger has an H-Index of 58, and his group published nine articles in 2014. Muller-Karger employs and supports 15 people: seven students (two MS, five PhD), five postdocs, a systems engineer, a programmer, and an outreach coordinator from his ten active NSF, NASA, NOAA, and EPA grants. His grants have consistently totaled more than \$1.1 million per year for over a decade. He values diversity in our university, and in 2014, Muller-Karger, along with others at the College of Engineering, obtained a five-year Sloan Grant to assist underrepresented minority students obtain a PhD in STEM fields. He is also continuously engaged in international programs and hosted three foreign scholars in 2014.

Cindy L. Munro, PhD, RN, ANP-BC, FAANP, FAAN, FAAAS, Associate Dean of Research and Innovation, Professor, College of Nursing

Dr. Munro's research focuses on improving outcomes for critically ill adults, particularly in reducing risk of ventilator-associated pneumonia (VAP) and other important patient safety issues. Some of her 2014 research has been continuously supported since 2002 by NIH grants. Her most recently funded competing renewal, in 2014, received an impact score of 10 (the best

possible score) and a first percentile ranking (the best possible percentile). In 2014, she was elected as a USF Chapter Member of the National Academy of Inventors, was selected as an inaugural Ambassador for the Friends of the National Institute of Nursing Research, and was honored by the American Association of Critical Care Nurses as the annual Distinguished Research Lecturer. In addition, she was a Maggie Award winner in 2014 for Best Signed Editorial or Essay/Trade by the Western Publication Association.

**Meera Nanjundan, PhD, Associate Professor,
Cell Biology, Microbiology and Molecular Biology, College of Arts and Sciences**

Dr. Meera Nanjundan studies the role of autophagy in endometriosis and ovarian cancer and the role of MiRNA in Renal Cancer. Her primary appointment is in the Department of Cell Biology, Microbiology and Molecular Biology with a secondary appointment in the Department of Obstetrics and Gynecology. In 2014, she had active grants from National Cancer Institute (NCI), National Institute of Child Health Development (NICHD), Marsha Rivkin Center for Ovarian Cancer Research, and the Braverman/Rudnick Family Grant in Ovarian Cancer Research, totaling \$871,937. Additionally in 2014, three papers were published or accepted for publication with Nanjundan as senior author and one provisional patent was filed on endometriosis research. She also mentored one post-doctoral fellow, 17 PhD students, two Masters of Science students, and nine undergraduate students in the CMMB Cell and Molecular program and the Moffitt Cancer Biology PhD program in 2014, mentoring three of those students as their Major Professor.

**Matthew Pasek, PhD, Associate Professor, School of Geosciences,
College of Arts and Sciences**

Matthew Pasek is known by his students as “Dr. P.” It’s a good name for him, as his work covers the element phosphorus in all its forms in the environment. In 2014, Matt received his third NASA exobiology grant researching the role of phosphorus in the origin of life, along with collaborative funding from the NSF Center for Chemical Evolution and Yale University. Additionally, he received NASA’s Early Career Fellowship Award, which provides funding to start projects in space science. He was recognized by the Origins of Life community for his work in phosphorus chemistry, becoming the third Miller Early Career Fellow recipient of the International Society for the Study of the Origin of Life (ISSOL). His 2014 scholarly works include five journal articles, one of which was published in *Proceeding of the National Academy of Sciences*, as well as one book chapter and one article in the scientific press.

Hariharan Srikanth, PhD, Professor, Physics, College of Arts and Sciences

Dr. Hari Srikanth directed the Functional Materials Laboratory at the USF Physics department in 2014 with research supported by continuing grants from DoE and Army (TATRC). In calendar year 2014, his group consisted of seven PhD students and two postdoctoral researchers. His research in the area of nanostructured magnetic materials has been recognized worldwide with several invited talks at major professional conferences and high quality journal publications in 2014. He was inducted as a Fellow of the American Physical Society in 2014 and also accepted an appointment as associate editor for the Journal of Applied Physics, which is considered a premier journal in physics.

Camilla Vasquez, PhD, Associate Professor, World Languages, College of Arts and Sciences

Dr. Vasquez specializes in the analysis of internet language. Her scholarly monograph, *The Discourse of Online Consumer Reviews*, published by Bloomsbury Press in 2014, examines the linguistic features of user-generated reviews on sites like *TripAdvisor*, *Amazon* and *Yelp*. As

evidence of the larger impact of her work, Vasquez's book was featured prominently in a recent story published in the *New York Times*, and has been cited in several other media outlets as well. In 2014, she was invited to speak about her book at Georgetown University, Oregon State University, and the University of Florida. Additionally, Vasquez published three articles in peer-reviewed journals in 2014, co-authored with doctoral students.

Thomas Williams, PhD, Professor, Philosophy, College of Arts and Sciences

Dr. Williams' research focuses on medieval philosophy and theology and the philosophy of religion. Williams received a large 2014-2015 grant from the National Endowment for the Humanities for *John Duns Scotus: Readings in Ethics*. Additionally, Williams won the American Philosophical Association's Edinburgh Fellowship, which enabled him to be in residence at the Institute for Advanced Studies in the Humanities at the University of Edinburgh during Fall 2014; he was also awarded a visiting fellowship in the Centre for Ethics, Philosophy, and Public Affairs at the University of St. Andrews in 2014 for a Spring 2015 residency at the Centre.

Congratulations, faculty, on your extraordinary 2014 achievements!

Fourteen (14) Awarded in 2014 for Achievements in 2013

Matthias Batzill, Ph.D., Associate Professor, Physics, College of Arts and Sciences

In his lab, Batzill investigates condensed matter at the atomic scale with the goal of understanding how the properties of surfaces can be tuned to perform new or improved functions. Dr. Batzill has received a prestigious TUM-IAS (Technische Universität München - Institute for Advanced Study) Hans Fischer Fellowship. The Fellowship is awarded to "Outstanding early-career international scientists, who intend to explore innovative, high-risk topics in their scientific research areas together with a TUM Research Group". This program establishes collaborative research between the Nanophysics and Surface Science Laboratory at USF Physics (directed by Batzill) and the Technical University of Munich in Germany, of which thirteen Nobel Laureates are closely affiliated.

Colin Heydt, Ph.D., Associate Professor, Philosophy, College of Arts and Sciences

Dr. Heydt's research focuses on the history of ethics and political philosophy. In January 2013, Dr. Heydt was awarded a National Endowment for the Humanities Fellowship to be in residence at the Institute for Advanced Study, School of Historical Studies, Princeton, for the academic year 2013-2014. Additionally, Dr. Heydt was awarded an NEH Fellowship for Summer 2013 on the subject of "Practical Ethics in Eighteenth Century Britain." His book *Practical Ethics in Eighteenth Century Britain*, will be the first book-length study that examines eighteenth century practical ethics.

Chuanmin Hu, Ph.D., Professor, Optical Oceanography, College of Marine Science

In 2013, Dr. Hu published 20 peer-reviewed journal articles on coastal oceanography and his work was cited 904 times. Of these published works, several major breakthroughs were made on remote sensing of estuarine water quality and coastal blooms. In recognizing these and other contributions, the Environmental Protection Agency awarded Dr. Hu a Gulf Guardian Award in June 2013. Additionally, NASA decided in 2013 to use the Hu et al. (2012) chlorophyll algorithm as a standard (i.e., default) for all ocean color missions for most of the global open oceans, starting from the next round of data reprocessing in 2014. This marks the first time that a major change has been made in standard chlorophyll algorithms in optical oceanography since the 1970s.

Anne Latowsky, Ph.D., Associate Professor and Director, French Graduate Program, World Languages, College of Arts and Sciences

Dr. Latowsky specializes in Medieval French literature and Latin historiography. She published a 300-page scholarly monograph in 2013 entitled, *Emperor of the World: Charlemagne and the Construction of Imperial Authority, 800-1227* with Cornell University Press, a top-ranked university press for medieval studies. The research for this book was supported by a full-year National Endowment for the Humanities Faculty Research fellowship in 2009. In 2007 she was awarded the Van Courtlandt Elliott Prize from the Medieval Academy of America for outstanding first article in the field of medieval studies.

Susan C. McMillan, Ph.D., Distinguished Professor, College of Nursing

Dr. McMillan's research focuses on symptom assessment and management and quality of life in persons with cancer. She has developed clinically relevant tools that nurses use in assessing patient symptoms. The Constipation Assessment Scale, for example, has been used both nationally and internationally to improve assessment and management of opiate-induced constipation in persons with cancer. She tested an educational intervention, COPE, for caregivers of hospice patients with cancer and with heart failure and is currently testing it with patients with cancer, with the goal of improving symptom management for patients and improving quality of life for both patients and caregivers. She received the Distinguished Nurse Researcher Award from the Hospice and Palliative Nurses Association, as well as the Oncology Nursing Society 2014 Distinguished Nurse Researcher award and is a Fellow in the American Academy of Nursing.

James Mihelcic, Ph.D., Professor, Civil and Environmental Engineering, State of Florida 21st Century World Class Scholar, College of Engineering

Dr. Mihelcic received multiple nationally competitive research awards during 2013, including two large grants from the National Science Foundation (NSF) and the Environmental Protection Agency (EPA), worth \$3.9 million and \$2.2 million respectively. Mihelcic's NSF award is USF's largest-ever sustainability grant and will support research related to water scarcity and supply issues, energy production, the use of finite natural resources and protection of the environment. The EPA grant supports the development of the new EPA Center for Reinventing Aging Urban Infrastructure for Nutrient Management, founded to tackle issues with urban water management in Florida. His proposal was one of four such EPA centers funded.

Gokhan Mumcu, Ph.D., Assistant Professor, Electrical Engineering, College of Engineering

Dr. Mumcu received a \$400,000 National Science Foundation CAREER Award in November 2013 for his proposal entitled, *Microfluidically Loaded Highly Reconfigurable Compact RF Devices*. Additionally, Dr. Mumcu published seven journal papers (six in IEEE publications), received two competitive grant awards from National Science Foundation, submitted three patent applications and published four conference papers in 2013. He served as the technical program co-chair of the 2013 IEEE International Antennas and Propagation Symposium, the largest conference in his field, and two of his graduate students received competitive national awards.

Chuck Owen, M.A., Distinguished Professor and Director, School of Music, College of The Arts

Released in 2013, pieces from Chuck Owen's jazz CD, *River Runs: A Concerto for Jazz Guitar, Saxophone & Orchestra*, were nominated for two separate GRAMMY Awards –in the

composition categories that include entries across a wide range of genres - from jazz to popular to film music. The CD release represented the culmination of an extensive project and was funded in part through Owen's 2009 Guggenheim Fellowship, awarded to "men and women who have already demonstrated exceptional capacity for productive scholarship or exceptional creative ability in the arts." The Director of the USF Jazz Ensemble for 25 years, he led the group in performances at international jazz festivals as well as with renowned guest artists such as Ray Charles, Doc Severinson, and Lionel Hampton.

Inna Ponomareva, Ph.D., Associate Professor, Physics, College of Arts and Sciences

Dr. Ponomareva has received the NSF-CAREER award in 2013 for her project entitled CAREER: Towards universal understanding of caloric and other complex effects in ferroics from multiscale modeling. The research project was funded with a five-year, \$435,000 grant starting in 2013. In addition to the CAREER award, Dr. Ponomareva also received a \$405,000 peer-reviewed grant from the United States Department of Energy in September 2013, entitled, Complex (anti) ferroic oxides: statics and dynamics at finite temperatures. Also in 2013, Dr. Ponomareva continued research on two peer-reviewed Federal grants, each with awards of more than \$400,000, and co-authored six peer-reviewed research publications.

Jason Rohr, Ph.D., Associate Professor, Integrative Biology, College of Arts and Sciences

Dr. Rohr's research investigates the effects of agrochemicals and climate change on organisms, particularly frogs. During 2013, he published thirteen (13) peer-reviewed publications in journals such as the highly-cited *Proceeding of The National Academy of Sciences of the United States of America*, *Nature Climate Change*, *Conservation Biology* and *Proceedings of the Royal Society Biological Sciences*. Rohr's research on frog conservation appeared on the cover of the journal *Nature*. Dr. Rohr was also awarded three externally funded federal grants during that period, with total funding exceeding \$1 million. In addition, he had two other active grants and also subcontracted a \$2.5 million NSF EEID grant.

Stanley Stevens Jr., Ph.D., Assistant Professor, Cell Biology, Microbiology and Molecular Biology, College of Arts and Sciences, and Faculty Director, CDDI

In February 2014, Dr. Stevens received his third NIH R21 award this academic year. The most current awarded project, entitled: "Impact of Ethanol-induced Protein Nitration on the Histone Modification Code", aims to investigate a novel protein modification and its role in the development of alcohol-induced liver injury. This most recent example of Stevens' active research has culminated in more than \$604,000 in mass spectrometry-based proteomics research. Dr. Stevens also facilitated the acquisition of a new high-performance mass spectrometer in 2013, necessary for advanced proteomics research, which is now housed in the USF Center for Drug Discovery and Innovation.

Srinivas M. Tipparaju, Ph.D., Associate Professor, Pharmaceutical Sciences, College of Pharmacy

Dr. Tipparaju obtained two research grants (NIH and FHTCC) and brought \$443,000 of funding support to the University and the College of Pharmacy in 2013 as federal- and state-sponsored funding to continue and maintain the cardiovascular area that he developed. The NIH grant involves researching the regulation of currents in the heart. Dr. Tipparaju partnered with Core Rx, Inc., a Tampa Bay pharmaceutical company, on the FHTCC grant to develop the project

entitled, Novel Drug Delivery systems by tablet technology: Repositioning the FDA approved drug pipeline, which allows USF students to conduct research at the pharmaceutical company. Additionally, Dr. Tipparaju published four papers in high-impact journals, serving as lead author for three.

Yicheng Tu, Ph.D., Associate Professor, Computer Science and Engineering, College of Engineering

Dr. Tu received a five-year NSF CAREER Award of nearly \$500,000 to support two Ph.D. students conducting research on the foundation of algorithms for computing analytics for data mining and reduction in computational science domains, as well as the design and implementation of a push-based big-data management system. Dr. Tu also received a Nvidia CUDA Research Center award for equipment donations, which enhances his students' ability to test and evaluate their system prototypes in state-of-the-art hardware products. Additionally, he published eight technical papers as lead or senior author and had two technical papers accepted into peer-reviewed venues, including IEEE Transactions of Knowledge and Data Engineering and ACM Transactions on Knowledge Discovery from Data. His papers appeared in the conferences International Conference of Distributed Computing Systems, and International Conference on Autonomic Computing.

Xiaohong (Mary) Zhang, Ph.D., Associate Professor, Pathology and Cell Biology, Morsani College of Medicine

Dr. Zhang's research focuses on the role of the enzyme HDAC6 and its substrates in human cancers, particularly ovarian and lung cancers. During 2013, Dr. Zhang and her research team made a discovery in the field of DNA damage response. These findings were recently published in the prestigious journal Molecular Cell and in the Journal of Biological Chemistry. Dr. Zhang previously secured a highly-competitive R01 grant for over \$1 million from the National Institute of Health/National Cancer Institute (NCI) and a \$450 thousand Liz Tilberis Scholar Award from the Ovarian Cancer Research Fund (OCRF), both of which were successfully renewed in 2013.

Congratulations, faculty, on your extraordinary 2013 achievements!

Eleven (11) Awarded in 2013 for 2012

Cesario Borlongan, Ph.D., Professor and Vice Chair for Research, Neurosurgery and Brain Repair, and Director of the Center of Excellence for Aging and Brain Repair, Morsani College of Medicine

Dr. Borlongan was recognized for his research and scholarly activities in the translational biomedical research field. In 2012, Dr. Borlongan was elected as a Fellow of the AAAS (American Association for the Advancement of Science) based on his research on stem cell therapy for stroke, published 23 peer-reviewed articles in journals such as PloS One and Stem Cells and Development, filed a patent application, and became principal investigator on two federal grants, a James and Esther King state grant, and co-investigator on a VA Merit award.

Chad Dickey, Ph.D., Associate Professor of Molecular Medicine, Morsani College of Medicine and Byrd Alzheimer's Institute

Dr. Dickey was recognized for his research studies on the molecular mechanisms underlying neuro degeneration. In 2012, he published eight manuscripts in top journals: Journal of Biological Chemistry, Autophagy, Chemistry & Biology, ACS Chemical Biology, and Journal of

Molecular Biology. Four of the manuscripts concentrated on compounds that target members of the heat shock family, which Dr. Dickey has found to have therapeutic potential. This discovery has advanced knowledge of the biological mechanism used by the cell to deal with protein aggregates. It has also led to the discovery of a lead compound for pharmacological intervention in Alzheimer's disease.

Benjamin Djulbegovic, M.D., Ph.D., Distinguished Professor and Director, Division of Evidence-Based Medicine and Health Outcomes Research, Department of Internal Medicine, Morsani College of Medicine

Dr. Djulbegovic was recognized for his work in 2012 involving the development of two major theories in clinical research and decision-making: the theory regarding treatment success in clinical trials and the acceptable regret theory, and for his contributions to improving the practice of medicine using the following Evidence Based Medicine (EBM) methods: predicting and proving the optimal treatment discovery rate, developing a new theory of medical decision-making, and improving patient outcomes and saving resources by generating evidence-based guidelines.

David A. Eddins, Ph.D., CCC-A, Associate Professor of Communication Sciences & Disorders, College of Behavioral and Community Sciences

Dr. Eddins was recognized for his work in three areas: establishing the nature and consequences of age-related changes in auditory perception, developing a framework for measurement and computational modeling of the perception of voice quality, and understanding auditory pattern recognition in the context of auditory perceptual learning. In 2012, Dr. Eddins had eight peer-refereed publications in the Journal of the Acoustical Society of America, Hearing Research, Journal of Neuroscience, Experimental Brain Research, and Journal of Speech, Language, Hearing Research. Also in 2012, Dr. Eddins was inducted as a Fellow in The Acoustical Society of America, was awarded an NIH R01 grant for Psychoacoustic Approach to Dysphonic Voice Quality Perception, was principal investigator or co-investigator on five extramural grants, and served as a mentor on another federally funded grant.

Earl McCoy, Ph.D., Professor of Integrative Biology, College of Arts and Sciences

Dr. McCoy was recognized for his research and contributions in conservation biology. In 2012, Dr. McCoy was elected as a Fellow of the AAAS, co-wrote a \$750,000 USDA training grant to enhance agricultural sustainability, which was later funded, submitted eight refereed publications which were published or in press in 2012 to the Journal of Fish and Wildlife Management, Journal of Applied Ecology, Journal of Herpetology, Fire Ecology, Genetics Research International, Diversity and Distributions, Behavioral Ecology and Sociobiology, and Natural Areas Journal, and co-edited the book Biology and Conservation of North American Tortoises to be published this year by Johns Hopkins University Press.

Wilbur Kearsie Milhous, Ph.D., Professor, Global Health Infectious Disease Research Program and Associate Dean of Research, College of Public Health

Dr. Milhous was recognized for his research in translating technology from the laboratory to the field. In 2012, Dr. Milhous was designated as a distinguished alumnus from the University of North Carolina for his contributions to the field of discovery and development of drugs for neglected diseases, completed a five-year appointment to represent USF on the Advisory Committee of the Medicines for Malaria Venture (MMV), which holds the world's largest R&D portfolio of new and innovative antimalarial medicines, and was appointed as an editor of Antimicrobial Agents and Chemotherapy, the leading journal in drugs for infectious disease.

Steven A. Murawski, Ph.D., Population Dynamics/Marine Ecosystem Analysis Professor, Downtown Progress Peter Betzer Endowed Chair, Biological Oceanography, College of Marine Science

Dr. Murawski was recognized for his work as a fisheries biologist and marine ecologist involved in understanding the impacts of human activities on the sustainability of ocean ecosystems. In 2012, Dr. Murawski was presented with the Dwight

A. Webster Memorial Award from the American Fisheries Society for "Meritorious/prestigious service to the profession and fisheries," and began his term as Director and PI of the C-IMAGE consortium, leading a worldwide multi-disciplinary team of scientists investigating the Deepwater Horizon oil spill, with a combined expenditure of over \$11 million. He also published two papers in 2012 in the Proceedings of the National Academy of Sciences.

Frances L. Ramos, Ph.D., Associate Professor of History, College of Arts and Sciences

Dr. Ramos was recognized for her monograph, *Identity, Ritual, and Power in Colonial Puebla*, which was awarded the Rocky Mountain Council for Latin American Studies (RMCLAS)

Michael C. Meyer Award for Best Book in Mexican History published between 2008 and 2012. Also in 2012, Dr. Ramos won a National Endowment for the Humanities Fellowship to conduct research for her project, *The War of the Spanish Succession: Rumor, Gossip, and Political Discourse in Early Eighteenth-Century Mexico*.

Alison Salloum, Ph.D., LCSW, Associate Professor of Social Work, College of Behavioral & Community Sciences, with a joint appointment in Pediatrics, Morsani College of Medicine

Dr. Salloum was recognized for her research in evidence-based cognitive behavioral trauma interventions for children. In 2012, she published an article in *Behavior Research and Therapy* on a Grief and Trauma Intervention for Children, was awarded a three-year R34 grant from the National Institute of Mental Health to develop and test the feasibility of a novel intervention for young children with PTSD, is PI on a grant with the Crisis Center of Tampa Bay to conduct child trauma treatment studies, and received a book contract for *Grief and Trauma in Children: An Evidence-Based Treatment Manual*.

John Skvoretz, Ph.D., Professor of Sociology, College of Arts and Sciences

Dr. Skvoretz was recognized for his work in social network analysis. In 2012, Dr. Skvoretz was awarded the American Sociological Association Mathematical Sociology Section's James S. Coleman Distinguished Career Award. The award recognizes a sustained record of achievement at the highest level, grant support, and publication in leading journals by someone who uses mathematics to build theoretical models of important social structures and processes. Also in 2012, he was elected a Fellow of the AAAS.

Ira Sukrungruang, MFA, Associate Professor of English, College of Arts and Sciences

Mr. Sukrungruang was recognized for his writing, which is quickly gaining an international reputation. During 2012, Mr. Sukrungruang published 18 poems, stories, essays, and reviews, received the Anita Claire Schraff Award for the manuscript of his book of poems, *In Thailand It Is Night*, and received the Artsmith Artist Residency Fellowship.

Congratulations, faculty, on your extraordinary 2012 achievements!

Nine (9) Awarded in 2012 for Achievements in 2010-2011

Roger Ariew, Ph.D., Professor and Chair of Philosophy, College of Arts & Sciences

Recognized for accomplishments in outstanding publications, as well as a pre-eminent grant award from the National Endowment for the Humanities (NEH).

Shannon Bassett, MAUD, Assistant Professor, School of Architecture & Community Design, College of The Arts

Recognized, in particular, for receipt of a prestigious National Endowment for the Arts grant to launch the Re-Stitch Tampa project.

Eric R. Buhi, Ph.D., Assistant Professor in Community & Family Health, College of Public Health

Recognized as a recipient of the Darroch Award for Excellence in Sexual and Reproductive Health Research from the Guttmacher Institute.

John D. Carter, M.D., Associate Professor and Director of the Division of Rheumatology in Internal Medicine, Morsani College of Medicine

Recognized for publications in the prestigious journals of *Arthritis & Rheumatism* and the *Annals of Internal Medicine*.

Marty Gould, Ph.D., Professor of English, College of Arts & Sciences

Recognized, in particular, for the publication of his book, *Nineteenth-Century Theatre and the Imperial Encounter* (by Routledge, Taylor & Francis Group).

Ivan Oleynik, Ph.D., Professor of Physics, College of Arts & Sciences

Recognized for accomplishments detailed in such outstanding publications as *Nature Nanotechnology* and *Physical Review Letters*, as well as research grants awarded from the National Science Foundation (NSF), the Office of Naval Research (ONR), and the Defense Threat Reduction Agency (DTRA).

Sidney K. Pierce, Ph.D., Professor in Integrative Biology, College of Arts & Sciences

Recognized for accomplishments on horizontal gene transfer between algae and animals featured in prominent national and international outlets, such as *Science News*, MSNBC, *Nature*, *US News*, the *LA Times*, and *National Geographic*.

Lindsey Shaw, Ph.D., Assistant Professor in Cell Biology, Microbiology and Molecular Biology, College of Arts & Sciences

Recognized for accomplishments in the area of bacterial pathogenesis and the receipt of two grants from the National Institute of Allergy and Infectious Diseases (NIAID) with a combined total award of over \$1.7 million.

Brent J. Small, Ph.D., Professor at the School of Aging Studies, College of Behavioral & Community Sciences

Recognized for accomplishments, such as being honored with fellowship status in the Association of Psychological Science (APS) along with outstanding publications in peer-reviewed journals, *Neuropsychology*, *Journal of Gerontology: Psychological Sciences* and *Cancer*.

Congratulations, faculty, on your extraordinary 2010-2011 achievements!

Ten (10) Awarded in 2010 for Achievements in 2009

P. Amina Alio, Ph.D., Assistant Professor of Community & Family Health, College of Public Health

Recognized for outstanding publications including a seminal paper published in the Lancet, on the impact of intimate partner violence.

Matthias M. Batzill, Ph.D., Assistant Professor of Physics, College of Arts & Sciences

Received a competitive "CAREER" grant from the National Science Foundation titled *Nanoscale surface properties of functional metal oxides*, a Department of Energy grant, *Photocatalysis of modified transition metal oxide surfaces*, and funding of over \$1 million dollars.

Elizabeth Bird, Ph.D., Professor of Anthropology, College of Arts & Sciences

Recipient of the Communication Research as Open Field Award from the International Communication Association (ICA).

Jerri D. Edwards, Ph.D., Assistant Professor, School of Aging Studies, College of Behavioral and Community Sciences

Recognition for her research and publications on cognitive intervention and training and winning an R21 grant from the National Institute on Aging, titled: *Cognitive Speed of Processing Training Among Persons with Parkinson's Disease*.

Carolyn S. Ellis, Ph.D., Professor of Communication, College of Arts & Sciences

Received the 2009 Charles Horton Cooley Award, presented by the Society for the Study of Symbolic Interaction, for her book, *Revision: Auto-ethnographic Reflections on Life and Work*.

Cecile A. Lengacher, RN, Ph.D., Professor and Director of the BS-PhD Program, College of Nursing

Received a 5-year NIH R01 grant from the National Cancer Institute and received supplemental ARRA funding, with total funding in excess of \$3 million dollars.

Lynn Bloxom (Marty) Martin, Ph.D., Assistant Professor of Integrative Biology, College of Arts & Sciences

Recipient of the George A. Bartholomew Young Investigator Award, from the Society for Integrative and Comparative Biology and from the NSF, Integrative Organismal Systems Program, entitled: *Physiological mediation of vertebrate invasions*.

Casey W. Miller, Ph.D., Assistant Professor of Physics, College of Arts & Sciences

Received two extremely competitive grants, the Air Force Office of Scientific Research Young Investigator Award and NSF Early Career Award for his research in magnetic materials, with a funding total of \$896,334.

Eric A. Storch, Ph.D., M.S., Associate Professor of Pediatrics, College of Medicine

Received grant funding from the National Institute of Child Health & Development, titled: *CBT for Anxiety Disorders in Autism: Adapting Treatment for Adolescents* and the All Children's Hospital Research Foundation, with funding over \$1 million dollars.

Dr. Thomas R. Unnasch, Ph.D., Professor and State of Florida World Class Scholar, Global Health Infectious Disease Research Program, College of Public Health

Continued extraordinary contributions to global infectious disease research, published eight peer reviewed articles, winning two American Recovery and Reinvestment Act awards from the NIH which now represents 21 years of uninterrupted funding from the NIH.

Congratulations, faculty, on your extraordinary 2009 achievements!

**Faculty Outstanding Research Achievement Awards
Fourteen (14) Awarded in 2009 for Achievements in 2008**

John H. Adams, Ph.D., Professor, Global Health, College of Public Health

Recognized for the publication of "Comparative Genomics of the Neglected Human Parasite *Plasmodium vivax* Illuminates Malaria Parasite Biology" in the journal *Nature* and two articles in *Public Library of Science Pathogens (PLoS Path)*.

Jon Antilla, Ph.D., Assistant Professor, Department of Chemistry, College of Arts & Sciences

Recognized for receiving an NSF CAREER Award* for his study titled *Chiral Phosphoric Acid-catalyzed Reaction Methodology and Synthetic Applications*.

Venkat R. Bhethanabotla, Ph.D., Chemical & Biomedical Engineering, College of Engineering

Recognized for the major role he played in the discovery and development of surface acoustic waves for the simultaneous sensing of multiple biomarkers. In 2008 this resulted in 3 patent applications and 7 published in articles in highly competitive journals such as *Physical Review E*, *Physical Review B*, and *Applied Physics Letters*.

Kathryn M. Borman, Ph.D, Professor, Department of Anthropology, College of Arts & Sciences

In 2008 Dr. Borman received 4 research grants totaling \$2,802,295 for her large, collaborative, inter-disciplinary, multi-phased and multi-centered projects directed at critically relevant concerns in public education nationally as well as in Florida. Two of these grants are from the National Science Foundation and are focused on studying student participation in Science, Technology, Engineering, and Math curricula.

Boris Galperin, Ph.D., Associate Professor, College of Marine Science

The discovery of a new turbulence regime called "zonons" which helps to explain the interaction between waves and turbulence in fluids. This discovery was published in *Physical Review Letters* in 2008 and sheds new light on the study of planetary atmospheres and the Earth's oceans.

**Peter Harries, Ph.D., Associate Professor, Department of Geology,
College of Arts & Sciences**

Recognized for his role in the publication of “Phanerozoic Trends in the Global Diversity of Invertebrates,” in the Journal Science. Dr. Harries was a leading member of an international team of scientists who compiled the Paleobiology Database to examine the evolution and variation in biodiversity through geologic time.

Russell Kirby, Ph.D., Professor & Marrell Endowed Chair, Department of Community & Family Health, College of Public Health

Recognized for receiving the Godfrey P. Oakley, Jr. Award by the national Birth Defects prevention Network for his significant contribution to the field of birth defects and his senior leadership in numerous collaborative research projects undertaken by the network.

**Jarred Ligatti, Assistant Professor, Department of Computer Science & Engineering,
College of Engineering**

Recognized for receiving an NSF CAREER Award* for his study titled Foundational Theories and Enforcement Tools for Secure Software Systems.

Pat Rogers, Ph.D., LITT.D, D.LITT, F.B.A., Eminent Scholar and DeBartolo Professor of Humanities, Department of English, College of Arts & Sciences

Recognized for his election to the Fellowship of the British Academy for attaining “high international standing in any of the branches of study which it is the object of the Academy to promote.” The British Academy focuses on the Humanities and Social Sciences and is the equivalent of the National Academy of Sciences in the U.S. Dr. Rogers is a leading international scholar in the field of 18th Century British Literature and Culture and is one of only 10 scholars to be selected as Corresponding Fellows of the British Academy in 2008.

Jason Rohr, Ph.D., Assistant Professor, Department of Integrative Biology, College of Arts & Sciences

Recognized as the lead author on a paper entitled “Agrochemicals Increase Trematode Infections in a Declining Amphibian Species” in the journal Nature, and the paper entitled “Evaluating the Links between Climate, Disease Spread, and Amphibian Declines” in the Proceedings of the National Academy of Sciences. In 2008 Dr. Rohr also received over \$1M in research funding from the Environmental Protection Agency and Department of Agriculture.

Hamisu Salihu, Ph.D., Professor, Department of Epidemiology & Biostatistics, College of Public Health

Recognized for the publication of a novel theory called “event memory hypothesis” which suggests a possible molecular memory-recall programming pattern in human gestation using epidemiologic/molecular evidence. In 2008 this hypothesis was published in the journals Medical Hypotheses and Obstetrics & Gynecology, and may help to understand and prevent the causes of fetal death.

Noel Schiller, Ph.D., Assistant Professor, School of Art and Art History, College of the Arts

Recognized for receiving a Getty Postdoctoral Residential Fellowship* to work on her book, *Engaging Laughter: Representing Perception, Sensation, and the Passions in Seventeenth-Century Dutch Art*. This 9-month residential program allows scholars to devote themselves to full-time research and to participate in regular formal and informal gatherings among the community of scholars. Dr. Schiller was one of only 15 scholars to be selected for this fellowship that supports “interpretive research projects that promise to make a substantial and original contribution to the understanding of art and its history.”

Kristina Schmidt, Ph.D., Assistant Professor, Department of Cell Biology, Microbiology and Molecular Biology, College of Arts & Sciences

Recognized for being a junior faculty member who has been awarded a National Institutes of Health R01 Grant totaling \$1,320,000. This project, titled *Suppression of Translocations by RecQ-like DNA helicases*, will focus on genomic instability using a yeast model system.

Kevin Yelvington, D. PHIL., Associate Professor, Department of Anthropology, College of Arts & Sciences

Recognized for receiving a Fellowship from the John Simon Guggenheim Memorial Foundation,* to work on his book, *Melville J. Herskovits and the making of Afro-American Anthropology*. One of 190 fellows selected from more than 2,600 applicants, he is among artists, scientists and scholars chosen for their stellar achievement and exceptional promise for continued accomplishment.

Congratulations, faculty, on your extraordinary 2008 achievements!

Six (6) Awarded in 2008 for Achievements in 2007

Giovanna Benadusi, Ph.D., Associate Professor, Department of History, College of Arts and Sciences

Recognized for receiving a Research Fellowship from the American Council of Learned Societies,* a federation of seventy national scholarly organizations widely recognized as the preeminent scholarly society promoting the “advancement of humanistic studies in all fields of learning in the humanities and social sciences.”

Sanjukta Bhanja, Ph.D., Assistant Professor, Department of Electrical Engineering, College of Engineering

Recognized for receiving a Faculty Early Career Development Award* from the National Science Foundation for her study titled “Error Power and Reliability for Nano-Silicon and Beyond.” The CAREER awards are the NSF’s “most prestigious awards in support of the early career-development activities of those teacher-scholars who most effectively integrate research and education within the context of the mission of their organization.”

Mya Brietbart, Ph.D., Assistant Professor, College of Marine Science

Recognized for receiving an Alfred P. Sloan Research Fellowship* in the field of molecular biology. These awards are given to early career faculty with “the most outstanding promise of making fundamental contributions to new knowledge” in the fields of: chemistry, computational and evolutionary molecular biology, computer science, economics, mathematics, neuroscience, and physics.

Yogi Goswami, Ph.D., Professor, Chemical and Biomedical Engineering, College of Engineering

Recognized for receiving the Frank Kreith Energy Award from the American Society of Mechanical Engineers, the Farrington Daniels Award from the International Solar Energy Society, and the Hoyt Clark Hottel Award from the American Solar Energy Society for his contributions to the field of renewable energy and solar power.

Riccardo Marchi, Ph.D., School of Art and Art History, College of Visual and Performing Arts

Recognized for receiving a Getty Postdoctoral Residential Fellowship* to work on his book, *Learning to Look at Pure Painting: Boccioni, Delaunay and Kandinsky in Berlin, 1912 – 1913*. This 9-month residential program allows scholars to devote themselves to full-time research and to participate in regular formal and informal gatherings among the community of scholars.

Ryan Toomey, Ph.D., Assistant Professor, Department of Chemical and Biomedical Engineering, College of Engineering

Recognized for receiving a Faculty Early Career Development Award* from the NSF for his study titled “Responsive, Surface- Attached Networks with Built-in Logic: An Integrated Research and Education Plan.” The CAREER awards are the NSF’s “most prestigious awards in support of the early career-development activities of those teacher-scholars who most effectively integrate research and education within the context of the mission of their organization.”

*These awards are recognized as a benchmark of distinction by the National Research Council, the Top American Research Universities (TARU), and the American Association of Universities.

Congratulations, faculty, on your extraordinary 2007 achievements!

Six (6) Awarded in 2007 for Achievements in 2006

Mohamed Eddaoudi, Ph.D., Assistant Professor, Department of Chemistry, College of Arts and Sciences

Recognized for receiving a Faculty Early Career Development Award from the NSF for his study titled “Molecular Building Block Approach to Zeolite-Like Metal-Organic Frameworks (ZMOFs).”

Jay Hopley, M.F.A., Assistant Professor, Department of English, College of Arts and Sciences

Recognized for being the one poet out of a field of 600 competitors to win the Yale Younger Poets Prize for his collection of poetry, *Green Squall*. In addition, he won Silver Medal in 2006 Florida Book Awards and Bronze Medal in 2006 ForeWord Magazine’s Book of the Year Award for the collection.

Dennis Kyle, Ph.D., Professor, Department of Global Health, College of Public Health
Recognized for being selected as the Scientist of the Year by the Malaria Foundation International for his “phenomenal record of productivity in malaria chemotherapy research.”

Diana Roman, Ph.D. and Jonathan Wynn, Ph.D., Assistant Professor, Department of Geology, College of Arts and Sciences

Recognized for their roles in a collaborative project that published the cover article, “Geological and Paleontological Context for the Pliocene Juvenile Hominin at Dikika, Ethiopia” as the cover article in *Nature*. The discovery of the juvenile skeleton is listed as “top ten” scientific accomplishments of the year in the *Wall Street Journal*.

X. Peter Zhang, Ph.D., Associate Professor, Department of Chemistry, College of Arts and Sciences

Recognized for receiving a Faculty Early Career Development Award from the NSF for his project titled “Catalytic Carbene and Nitrene Transfer Reactions by Metalloporphyrins.”

Hao Zheng, Ph.D., Assist. Professor, Dept of Computer Science & Engineering, College of Engineering

Recognized for receiving a Faculty Early Career Development Award from the NSF for his project “Methodologies and Tools for Large Real-Time Concurrent System Verification.”

Congratulations, faculty, on your extraordinary 2006 achievements!

Five (5) Awarded in 2006 for Achievements in 2005

Arthur P. Bochner, Ph.D., Professor, Department of Communication

For receiving the *Bernard J. Brommel Award for Outstanding Scholarship* presented by the National Communication Association.

Alfredo Cardenas, Ph.D., Assistant Professor, Department of Chemistry

For receiving a Faculty Early Career Development (CAREER) Award from the National Science Foundation.

Herman Friedman, Ph.D., Distinguished University Professor, Department of Molecular Medicine

For receiving the *Professional Recognition Award* of the American Boards of Medical Microbiology and Medical Laboratory Immunology presented by the American Society of Microbiology.

David K. Johnson, Ph.D., Assistant Professor, Department of History

For receiving three national awards for his book, *The Lavender Scare: The Cold War Persecution of Gays and Lesbians in the Federal Government*.

Scott Kluksdahl, M.M., Professor, School of Music

For his performance and broadcast with the Sofia Philharmonic Orchestra and the release of two compact disc recordings including the world premier of compositions by Richard Wernick, August Read Thomas, and the late USF Music Professor Robert Helps.

Congratulations, faculty, on your extraordinary 2005 achievements!

Ten (10) Awarded in 2005 for Achievements in 2004

Elizabeth Bird, Ph.D., Professor/Chair, Department of Anthropology

For receiving the 2004 Best Book Award of the International Communication Association for the book entitled *The Audience in Everyday Life: Living in a Media World* published by Routledge in 2003.

Constanza Bonadonna, Ph.D., Assistant Professor, Department of Geology

For receiving the Subaru Outstanding Woman in Science Award from the Geological Society of America, Nov. 7, 2004.

William Cummings, Ph.D., Associate Professor, Department of History

For receiving the Harry J. Benda Prize in Southeast Asian Studies from the Association for Asian Studies and the Phi Alpha Theta Best First Book Award from Phi Alpha Theta, the History Honor Society for his book entitled *Making Blood White: Historical Transformations in Early Modern Makassar* published by the University of Hawaii Press in 2002.

Gregory Herbert, Visiting Instructor, Department of Geology

For the paper "Reduced Competition and Altered Feeding Behavior among Marine Snails after a Mass Extinction" published in *Science* (306, 2229-2231, December 24, 2004).

Daniel Lim, Ph.D., Professor, Department of Biology

For receiving one of four 2004 Homeland Security Awards (his in the field of Biological, Radiological, Nuclear) from the Christopher Columbus Fellowship Foundation (a federal agency).

Bruce Lindsey, Ph.D., Professor/Chair, Department of Physiology & Biophysics

For receiving the Javits Investigator Award, a 7-year, \$3.5 million grant from the National Institute of Neurological Disorders and Stroke. Dr Lindsey is the first investigator at USF to receive this award.

Shyam Mohapatra, Professor, Department of Internal Medicine

For the paper "Inhibition of Respiratory Syncytial Virus Infection with Intranasal siRNA Nanoparticles Targeting the Viral NS1 Gene" published in *Nature Medicine* (online 26 Dec. 2004; doi: 10.1038/nm1174).

Paul Sanberg, Ph.D., D.Sc., Distinguished University Professor, Center of Excellence for Aging & Brain Repair/Department of Neuroscience

For recognition of his novel cell therapy approaches for brain repair by the International Behavioral Neuroscience Society in 2004.

Brent Small, Ph.D., Associate Professor, School of Aging Studies and Florida Policy Exchange Center on Aging

For receiving the Margret M. Baltes Early Investigator Award in Behavioral and Social Gerontology by the Gerontological Society of America in November 2004.

Kenneth L. Wright, Ph.D., Assistant Professor and Edward Seto, Ph.D., Professor, Department of Interdisciplinary Oncology

For the paper "PRDI-BF1 Recruits the Histone H3 Methyltransferase G9a in Transcriptional Silencing" in the journal *Nature Immunology* 5, 299-308 (2004).

Congratulations, faculty, on your extraordinary 2004 achievements!

Ten (10) Awarded in 2004 for Achievements in 2003

The Outstanding Faculty Research Achievement Awards were established in 2003 to underscore and celebrate the national and international recognition that USF faculty have received for extraordinary research accomplishments during the preceding year. Awards of \$5,000 and a commemorative medal are presented to recipients at the annual fall **Celebrate Research** reception.

Shekhar Bhansali, Ph.D., Assistant Professor, Electrical Engineering, College of Engineering

For receiving an NSF Career Award and a five-year NSF Integrated Graduate Education & Research Traineeship (IGERT) Award.

Gaëtan Brulotte, Ph.D., Professor, World Languages Education, College of Arts & Sciences

For the critical acclaim for his play *Le Client* at the International Drama Festival in Avignon, France.

Mohamed Eddaoudi, Ph.D., Assistant Professor, Chemistry, College of Arts & Sciences

For the publication in *Nature* of his paper, "Reticular synthesis and the design of new materials," and in *Science* of his paper, "Hydrogen storage in Microporous metal-organic frameworks."

Susan Greenbaum, Ph.D., Professor, Anthropology, College of Arts & Sciences

For the acclaim received for her book, *More than Black: Afro-Cubans in Tampa*. This includes the Theodore Saloutos award for the outstanding book of the year by the Immigration & Ethnic History Society; the Harry T. and Harriet V. Moore award for best ethnographic history of Florida by the Florida Historical Society & the Florida Institute of Technology; and the selection of the book as an Outstanding Academic Book by the American Library Association.

William Haley, Ph.D., Professor, Aging Studies, College of Arts & Sciences

For his paper published in the *New England Journal of Medicine*, and the editorial about it on end of life care and bereavement associated with dementia; his selection as chair of Behavioral & Social Sciences Section of the Gerontological Society of America, his briefing to the US House of Representatives on lifespan respite care; and his selection as an associate editor of *Psychology & Aging* published by the American Psychological Assoc.

Lawrence Hall, Ph.D., Professor, Computer Science & Engineering, College of Engineering

For being elected a Fellow of the Institute of Electrical and Electronics Engineers, and for his appointments as Editor-in-Chief of the *IEEE Transactions on SMC*, Part B and vice president of IEEE Systems, Man, & Cybernetics (SMC) Society.

Ashok Kumar, Ph.D., Associate Professor, Mechanical Engineering, College of Engineering

For impressive leadership in research grant awards from NSF including a Major Research Instrument (MRI) grant, a Grant Opportunities for Academic Liaison with Industry (GOALI) grant, his continuing Faculty Early Career Award and most recently, a Nanoscale Interdisciplinary Research Teams (NIRT) grant.

Terrence Quinn, Ph.D., Associate Professor, Marine Science, College of Marine Science

For being selected by the US Science Advisory Committee as 1 of 7 scientists to serve on the Science Planning Committee (SPC) of the Integrated Ocean Drilling Program.

Pat Rogers, Ph.D., Eminent Scholar, English, College of Arts & Sciences

For the publication in the *Times Literary Supplement* of his article, "Hurricanes Happen in Hampshire: Defoe and the Great Storm of 1703."

Hua Yu, Ph.D., Associate Professor, Interdisciplinary Oncology, College of Medicine

For the publication in *Nature Medicine* of her article, "Regulation of the innate and adaptive immune responses by Stat-3 signaling in tumor cells."

Congratulations, faculty, on your extraordinary 2003 achievements!

Twelve (12) Awarded in 2003 for Achievements in 2002

Dr. Bárbara Cruz, Ph.D., Associate Professor of Social Science Education, Department of Secondary Education, College of Education

For receiving the Carter G. Woodson Book Award, given by the National Association of Social Sciences for the most distinguished book in young adult social sciences. She also received the Distinguished Achievement Award for best article by the Association of Educational Publishers.

Boris Galperin, Ph.D., Associate Professor of Marine Science, College of Marine Science

For his new theory explaining the bands on giant planets such as Jupiter, Saturn and Neptune was published in *Physical Review Letters*.

Abraham Kandel, Ph.D., Distinguished Professor, Computer Science and Engineering, College of Engineering

For his work with the University of the Negev, in Beer-Sheva, Israel, in the field of classifier combination. This resulted in his receipt of the Fulbright Award for the exchange of research scholars between the US and Israel.

Srivas Katkooari, Ph.D., Assistant Professor, Department of Computer Science and Engineering, College of Engineering

For receipt of the very competitive Faculty Early Career Development Award from the National Science Foundation.

William Kerr, Ph.D., Associate Professor, Department of Interdisciplinary Oncology, College of Medicine

For his article about the discovery of important processes for bone marrow transplantation published in the journal *Science*.

Gary Litman, Ph.D., Professor, Department of Pediatrics, College of Medicine

For his paper about the discovery of the origins of immune systems in evolution published in the journal *Nature*.

Robin Murphy, Ph.D., Professor, Department of Computer Science & Engineering, College of Engineering

For being selected as the 2002 Distinguished Lecturer by the National Science Foundation, Computer Information Science and Engineering Division, and co-founding the new field of robotic search and rescue.

John Paul, Ph.D., Professor of Marine Science, College of Marine Science

For discoveries on the immunity to infection of marine viruses that were published in the journal *Nature*. He also led two teams, each winning a Biocomplexity grant from the NSF.

Thomas Pichler, Ph.D., Assistant Professor, Geology, College of Arts & Sciences

For leading a team that competed for and won a highly competitive Biocomplexity grant from the NSF.

Nagarajan Ranganathan, Ph.D., Professor, Department of Computer Science & Engineering, College of Engineering

For being elected a Fellow of the Institute of Electrical and Electronics Engineers. He was also appointed Editor-in-Chief of the prestigious journal of the Society of Electrical and Electronics Engineers.

Juan Sanchez-Ramos, M.D., Ph.D., Professor, Department of Neurology, College of Medicine

Recognized for performing breakthrough research that could result in effective treatment of brain and spinal cord injuries. He and his co-inventors patented bone marrow cells as a source of repair for brain and spinal cord repair.

Hong-Gang Wang, Ph.D., Associate Professor, Department of Pharmacology & Therapeutics, College of Medicine

For his paper published in the journal *Science* on the genetic origins of vertebrates.

Congratulations, faculty, on your extraordinary 2002 achievements!
