

**UNIVERSITY OF SOUTH FLORIDA**  
**SENATE RESEARCH COUNCIL ROSTER (2020 - 2021)**

Terms begin and end at the beginning of Fall (i.e., the beginning of Fall 2020 to the beginning of Fall 2023)

Meetings held via Microsoft Teams or at USF Research & Innovation, Multi-Purpose Room  
 3702 Spectrum Blvd., Suite 165, Front Office: 813-974-5570

Contact information for Sponsored Research, Research Council Coordinator:  
 Melody Spencer, 813-974-2897, [spencer66@usf.edu](mailto:spencer66@usf.edu)

**Alphabetical Order by College**

	<b>Member</b>	<b>College Represented</b>	<b>Term</b>	<b>Department</b>	<b>Phone</b>	<b>E-mail Address</b>	<b>Research/Specialization</b>
<b>1</b>	Janelle Applequist, PhD Assistant Professor	College of Arts and Sciences (1)	2019-2022	The Zimmerman School of Advertising & Mass Communications	974-4662	<a href="mailto:applequist@usf.edu">applequist@usf.edu</a>	As a researcher focused on health communication and advertising, Dr. Applequist is interested in the pharmaceutical industry, especially in regards to developing more normative frameworks to encourage proper patient education. Applequist's research explores the content of pharmaceutical advertisements, legal compliance with Food and Drug Administration (FDA) requirements, and issues of representation related to patients and health care in these advertisements. Other research interests include qualitative research methods, advertising, and patient representations via advertising.
<b>2</b>	Zachary Atlas, PhD Research Assistant Professor & Manager, USF Center for Geochemical Analysis	College of Arts and Sciences (2)	2019-2022	Geosciences	974-6419	<a href="mailto:zatlas@usf.edu">zatlas@usf.edu</a>	Volcanic geochemistry applied to pre-eruptive magma dynamics, the nature of subsurface storage of magma and subduction recycling of elements in volcanic systems. Plasma spectroscopy, which involves but not limited to forensic geochemistry and the trace element chemistry of the human body.

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3	Robert Tykot, PhD Professor	College of Arts and Sciences (3)	2019-2022	Anthropology	974-7279	<a href="mailto:ftykot@usf.edu">ftykot@usf.edu</a>	Research focuses on applying a range of scientific methods of analysis to archaeological materials, in prehistoric Europe and many other parts of the world. This includes including isotopic analyses of human remains to address dietary life history and mobility; trace element patterns in obsidian and ceramics to reconstruct long-distance trade networks; and major element composition of copper.
4	Marilyn Stern, PhD, CRC Professor	College of Behavioral & Community Sciences	2019-2022	Child and Family Studies	974-0966	<a href="mailto:mstern1@usf.edu">mstern1@usf.edu</a>	Primary research focus in pediatric, adolescent and young adult (AYA) psychosocial oncology, communication, and transition to survivorship; developing interventions to reduce childhood and adolescent obesity, and the vulnerable child syndrome.
5	Nathaniel von der Embse, PhD, NCSP Associate Professor	College of Education	2018-2021	School Psychology	974-5247	<a href="mailto:natev@usf.edu">natev@usf.edu</a>	Examination of teacher stress and student test anxiety surrounding high-stakes exams; The creation and validation of internalizing behavior and socio-emotional wellness screening assessments; and training of teachers and schools in population-based assessment methods to inform tiered and targeted intervention.
6	Yu Zhang, PhD Associate Professor <b>Chair</b>	College of Engineering	2018-2021	Civil and Environmental Engineering	974-5846	<a href="mailto:yuzhang@usf.edu">yuzhang@usf.edu</a>	Transportation network modeling and optimization, emerging technologies and services in transportation, sustainable transportation, resilient infrastructure and emergency management.
7	Alastair Graham, PhD Associate Professor	College of Marine Science	2021-2024	Geological Oceanography	727-553-3415	<a href="mailto:alastairg@usf.edu">alastairg@usf.edu</a>	Past changes in Earth's cryosphere, Geomorphological Processes in Sub-Ice and Open-Ocean Sea-Floor Environments, Antarctic Continental Margin Evolution, Sub-Antarctic Climate History.

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8	Richard Heller, PhD, Professor	Member-At-Large (1)	2021-2024	Medical Engineering, Medical Microbiology and Immunology	974-3780	<a href="mailto:rheller@usf.edu">rheller@usf.edu</a>	Developing and testing novel procedures using pulse electric fields for the delivery of plasmid DNA and cancer chemotherapeutics. The research has led to the development of new protocols or devices that are being tested for potential therapies for cancer, wound healing and vascular diseases (peripheral and coronary ischemia) as well as vaccine and immunotherapy protocols. Utilizing a long-term effort and multi-disciplinary approach, critical breakthroughs have been made that enhanced the progress of pulse electric fields for biomedical applications including First-in-Human clinical trials.
9	Laura Redwine, PhD Associate Professor	Member-At-Large (2)	2018-2021	Rehabilitation and Mental Health Counseling	974-1827	<a href="mailto:lredwine@usf.edu">lredwine@usf.edu</a>	Study of relationships among psychosocial, behavioral and neuroimmune factors and cardiovascular disease; examining the effects of integrative modalities such as Tai Chi, meditation, and yoga in various chronic disease populations.
10	Jennifer Leiding, MD, FAAAAI Associate Professor	Morsani College of Medicine (1) USF Health	2017-2020 2020-2021	Pediatrics	727-553- 1258	<a href="mailto:jleiding@usf.edu">jleiding@usf.edu</a>	Care of patients with primary immunodeficiency diseases and investigating the etiology of immunodysregulation in chronic granulomatous diseases and other disorders of innate immunity.
11	Kristian Lynch, PhD, MSc Associate Professor	Morsani College of Medicine (2) USF Health	2021-2024	Health Informatics Institute	972-3854	<a href="mailto:lynchk@usf.edu">lynchk@usf.edu</a> ; <a href="mailto:kristian.lynch@epi.usf.edu">kristian.lynch@epi.usf.edu</a> <u>u</u>	Primary research focus is in identifying environmental triggers of autoimmunity leading to celiac disease and type 1 diabetes among genetically at-risk children. Expertise in biostatistics and epidemiology with interest in study design of observational studies, disease heterogeneity, gene-environment interactions, causal inference and data integration.

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12	Hua Pan, MBA, PhD Assistant Professor	Morsani College of Medicine (3) USF Health	2018-2021	Cardiovascular Sciences	974-9755	<a href="mailto:huapan@usf.edu">huapan@usf.edu</a>	Understanding the mechanism of cancer-treatment related cardiotoxicity through integrated omics-based approach and validating nano-scale platform treatment strategies to mitigate cardiotoxicity for cancer patients and survivors.
13	Ehsan Sheybani, MS, PhD Associate Professor	Muma College of Business	2019-2022	Information Systems and Decision Science, Sarasota-Manatee Campus	941-359- 4200	<a href="mailto:sheybani@usf.edu">sheybani@usf.edu</a>	Applications of communication systems, signal processing, and artificial intelligence to big data, cybersecurity, biomedicine/bioengineering, space communications, oceanography, wireless communications, internet of things, and other physical sciences.
14	John H Adams, PhD, FAAAS, FASTMH, Distinguished University Professor	College of Public Health USF Health	2020-2022	USF Genomics Program and Center for Global Health Infectious Disease Research	974-9916	<a href="mailto:ja2@usf.edu">ja2@usf.edu</a>	My main research interests are in malaria parasite biology and translational studies. Broadly, this research focuses on host-parasite interactions and processes critical for infection and pathogenesis to support discovery of new vaccines and drug treatments. The research is funded by competitive grants from NIH, BMGF and other NGOs.
15	Jennifer A. Bugos, PhD Associate Professor	College of The Arts	2018-2021	Center for Music Education Research	974-2311	<a href="mailto:bugosj@usf.edu">bugosj@usf.edu</a>	The neurological basis for music perception and cognition with regard to human development, lifespan learning, and cognitive transfer. Research includes examining the impact of music training on cognition in healthy and clinical populations.

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16	Karen Atwood, M.S. Biology Instructor	Sarasota-Manatee Campus	2019-2022	Biology	813-463-0989	<a href="mailto:katwood@usf.edu">katwood@usf.edu</a>	Research Focuses on Harmful Algal Blooms (HABs) and includes the production of algal toxins by multiple species of phytoplankton found in Florida waters, specifically brevetoxins produced by Karen Brevis, the Florida Red Tide organism. Research Interests also includes the persistence of algal toxins in the environment and the impacts on fish, wildlife, and humans.
17	Diane Allen-Gipson, MS, PhD Associate Professor <b>Chair-Elect</b>	Taneja College of Pharmacy USF Health	2019-2022	Pharmaceutical Sciences	974-5699	<a href="mailto:dallengi@usf.edu">dallengi@usf.edu</a>	Mechanisms controlling repair of bronchial epithelium particularly, adenosine signal pathway and its role of epithelial injury in airway diseases associated with cigarette smoke and/or in combination with alcohol exposure. In addition to understanding the mechanisms involved in adenosine-mediated wound repair our lab has a growing interest in targeting efforts to reduce existing disparities in mortality rates particularly associated with smoke-related lung diseases and lung cancer for minorities including but not limited to Black and Hispanic population.

**EX-OFFICIO, NON-VOTING MEMBERS**

6/14/2021

**1** TBN

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**2** Keith Anderson, MS, CRA

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