

UNIVERSITY OF SOUTH FLORIDA
SENATE RESEARCH COUNCIL ROSTER (2021 - 2022)

Terms begin and end at the beginning of Fall (i.e., the beginning of Fall 2021 to the beginning of Fall 2024)

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

Alphabetical Order by College

	Member	College Represented	Term	Department	Phone	E-mail Address	Research/Specialization
1	Janelle Applequist, PhD Assistant Professor	College of Arts and Sciences (1)	2019-2022	The Zimmerman School of Advertising & Mass Communications	974-4662	applequist@usf.edu	Dr. Applequist's research is focused on health communication and advertising 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.
2	Zachary Atlas, PhD Research Assistant Professor & Manager, USF Center for Geochemical Analysis	College of Arts and Sciences (2)	2019-2022	Geosciences	974-6419	zatlas@usf.edu	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	rtykot@usf.edu	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-based metals to examine the use of different alloys.
4	Marilyn Stern, PhD, CRC Professor	College of Behavioral & Community Sciences	2019-2022	Child and Family Studies	974-0966	mstern1@usf.edu	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 2021-2022	School Psychology	974-5247	natev@usf.edu	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	College of Engineering	2018-2021 2021-2022	Civil and Environmental Engineering	974-5846	yuzhang@usf.edu	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	alastairg@usf.edu	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	rheller@usf.edu	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	Vacant	Member-At-Large (2)					
10	Ganesh Halade, PhD Associate Professor	Morsani College of Medicine (1) USF Health	Feb-May 2022	Internal Medicine and Cardiovascular Research	813-396- 0104	ghalade@usf.edu	Primary research focus is to understand how inflammation and immune responsive metabolic dysregulation contributes to ischemic and non-ischemic heart failure: 1) study of heart failure etiology with an integrative approach focusing on splenic leukocytes and heart; 2) measurement of inflammatory mediators that impair cardiac repair and resolving lipid mediators that facilitate cardiac repair after heart attack; 3) role of resolution receptor in inflammation-resolution processes in heart failure; and 4) translate our findings for use in human therapy, considering risk factors such as obesity, diabetes, aging, and cardiotoxic co-medications (oncological drugs).

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11	Kristian Lynch, PhD, MSc Associate Professor	Morsani College of Medicine (2) USF Health	2021-2024	Health Informatics Institute	972-3854	lynchk@usf.edu	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.
12	Emily Shaffer-Hudkins, PhD NCSP Associate Professor	Morsani College of Medicine (3) USF Health	2021-2024	Pediatrics	974-7588	eshaffer@usf.edu	Dr. Shaffer-Hudkins' areas of research interest include parent-child interaction and attachment, supporting those with developmental disabilities and their families, particularly those with autism spectrum disorder, positive psychology and resilience, and training experiences for future professionals serving young children.
13	Ehsan Sheybani, MS, PhD Associate Professor	Muma College of Business	2019-2022	Information Systems and Decision Science, Sarasota-Manatee Campus	941-359- 4200	sheybani@usf.edu	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	Ponrathi Athilingam, PhD Associate Professor	College of Nursing	2021-2024	College of Nursing	974-7526	pathilin@usf.edu	Dr. Athilingam's research is focused on interventions for patients with heart failure and Chronic Obstructive Pulmonary Disease (COPD) to improve self-care practices, quality of life, and reduce admission rates.
15	John H Adams, PhD, FAAAS, FASTMH, Distinguished University Professor Chair-Elect	College of Public Health USF Health	2020-2022	USF Genomics Program and Center for Global Health Infectious Disease Research	974-9916	ja2@usf.edu	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.

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16	Jennifer A. Bugos, PhD Associate Professor	College of The Arts	2018-2021 2021-2022	Center for Music Education Research	974-2311	bugosj@usf.edu	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.
17	Karen Atwood, M.S. Biology Instructor	Sarasota-Manatee Campus	2019-2022	Biology	813-463- 0989	katwood@usf.edu	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.
18	Diane Allen-Gipson, MS, PhD Associate Professor Chair	Taneja College of Pharmacy USF Health	2019-2022	Pharmaceutical Sciences	974-5699	dallengi@usf.edu	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

3/22/2022

- 1 Keith Anderson, MS, CRA, Assistant Vice President
Research & Innovation, 30338 USF Holly Drive, 974-5570
- 2 Sylvia Thomas, PhD, Interim Vice President
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