

UF MAE WELCOMES NEW FACULTY...



KATERINA AIFANTIS (PhD University of Groningen) focuses on using solid mechanics for understanding materials behavior at the nanoscale with applications in energy and biology. She spent the first years of her academic career in Europe with a five-year prestigious European Research Council Grant between the Aristotle University of Thessaloniki and the University of Erlangen-Nuremberg. With funding from DOE Basic Energy Sciences she examines the role of grain boundary structure and chemistry on materials behavior. She has published over 70 scientific papers and co-edited/co-authored the book *High energy density Li batteries* for Wiley-VCH.



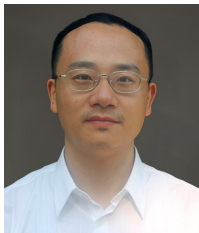
MATTHEW HALE (PhD Georgia Tech) conducts research on designing coordination algorithms for multi-agent systems, and implementing these algorithms on swarms of robots and other cyber-physical systems. His background is in control theory and secondary research interests include optimal control and hybrid systems. He was previously a member of the GRASP Lab at the University of Pennsylvania and the Institute for Robotics and Intelligent Machines at Georgia Tech.



RYAN HOUIM (PhD Penn State) focuses his research on numerical simulations of multiphase and chemically reactive flows with applications related to energy, propulsion, explosion safety, and defense. He worked as a Research Assistant Professor at the University of Maryland and was awarded a National Research Council Postdoctoral fellowship at the Naval Research Laboratory. He has published over 20 journal publications on topics ranging from numerical algorithm development to the physics of dust explosions.



AMOR A. MENEZES (PhD University of Michigan) engineers biological systems to be robotic, joining UF after postdoctoral and scientist appointments at the University of California, Berkeley. He is the Science Principal Investigator of the five-year, multi-university, Center for the Utilization of Biological Engineering in Space, a NASA Space Technology Research Institute in biomanufacturing for deep space exploration. He is an IEEE Senior Member, a 2015 fellow of the Synthetic Biology Leadership Excellence Accelerator Program, and was a 2015 Emerging Leader in Biosecurity.



XIN TANG (PhD University of Illinois at Urbana-Champaign) focuses his current research on the biomechanics, *in vitro/vivo* functional imaging and unconventional mechano-electrophysiology. He received his post-doctoral training in the Department of Chemistry and Chemical Biology at Harvard University. He was a NSF-IGERT fellow and Mavis Future Faculty fellow, and earned his PhD studying the force-induced cancer metastasis and cardiomyocytes synchrony.

UF MAE BY THE NUMBERS

LARGEST DEPARTMENT

on UF campus

>1,800

Undergraduate students (current)

>300

Master's students (current)

>175

PhD students (current)

57

full-time faculty (50 tenured/tenure-track)

NATIONAL RANKINGS

#5 AE

and

#6 ME

for BS degrees

#2 AE

and

#4 ME

for female BS degrees

#1 AE

and

#5 ME

for Hispanic BS degrees

#4

MAE for PhD degrees

(ASEE data)

\$26M

2-year external research expenditures

MAE plans to hire 6 additional faculty members in the next few years!

MAE ACCOMPLISHMENTS – CONGRATULATIONS TO:

NAGARAJ ARAKERE and **NIKHIL LONDHE** received the 2017 STLE Walter D. Hodson Award

S. "BALA" BALACHANDAR received the 2016 ASME Freeman Scholar Award

WARREN DIXON was named a UF Entrepreneurship Faculty Fellow

HUGH FAN was named a Fellow of AAAS

DAVID HAHN received the 2016-17 UF SWE Outstanding Support of Women in Engineering Award

NAM-HO KIM received the Herbert Wertheim College of Engineering International Educator of the Year Award

STEVEN MILLER received the Young Investigator Program award from Office of Naval Research

SAEED MOGHADDAM received the Herbert Wertheim College of Engineering Doctoral Dissertation Advisor/Mentoring Award

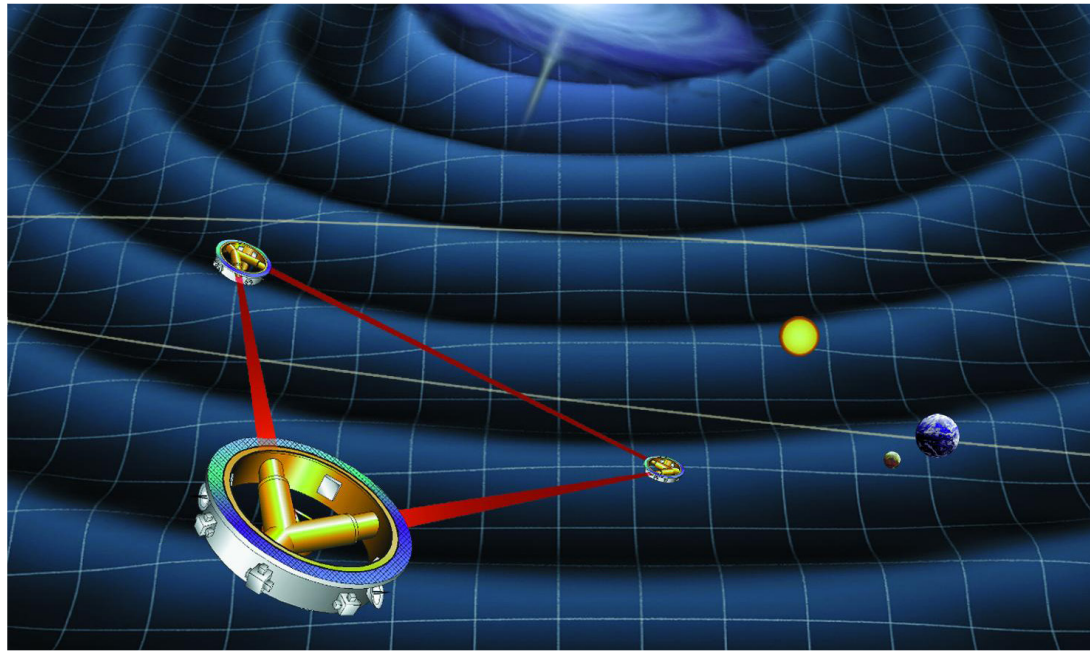
CHELSEY SIMMONS was declared a "Rising Star" at the Biomedical Engineering Society's Cellular and Molecular Bioengineering Conference

www.mae.ufl.edu



MECHANICAL AND AEROSPACE ENGINEERING is highly committed to providing an active learning and research environment with an emphasis on design, innovation, leadership and teamwork. We are pleased to highlight a few of our student and research activities.

» Prof. John Conklin was awarded a **\$2.8M NASA GRANT** in support of the future Laser Interferometer Space Antenna (LISA) mission, an ESA/NASA science project designed to detect and measure gravitational waves using three spacecraft.



» MAE unveils our new **SENIOR DESIGN CAPSTONE LABORATORY**. The new lab provides state-of-the-art space in support ME senior design realization.

» MAE Prof. Emeritus Jill Peterson established the **ROBERT AND JILL PETERSON WOMEN'S EXCELLENCE FUND**, to support the success and inclusion of women engineering students in MAE.



» UF MAE is partner in new **\$300M ADVANCED REGENERATIVE MANUFACTURING INSTITUTE (ARMI)**. Professors Tommy Angelini and Greg Sawyer are the pioneers behind MAE's Soft Matter Engineering Center. As part of ARMI, they will explore

