



MECHANICAL AND AEROSPACE ENGINEERING
GRADUATE STUDENT
COMMENCEMENT RECEPTION 2019

Monday, June 3, 2019

Qiang Chen, Ph.D.

Advisor: Szymon Suckewer

Thesis: Stimulated Raman Back-Scattering and Self-Guiding of Femtosecond Laser Pulses (3/22/2019)

William Coogan, Ph.D.

Advisor: Edgar Choueiri

Thesis: Thrust Scaling in Applied-Field Magnetoplasma-dynamic Thrusters (8/17/2018)

Position: Project Manager, Orbital Transfer Vehicle, Firefly Aerospace, Cedar Park, Texas

Elizabeth Davison, Ph.D.

Advisor: Naomi Leonard

Thesis: Synchronization and Phase Locking in Networks of Heterogeneous Model Neurons (5/17/2019)

Position: Data Scientist, The Aerospace Corporation, El Segundo, California

Matthew Edwards, Ph.D.

Advisor: Julia Mikhailova

Thesis: Ultrafast Sources of Intense Radiation (5/10/2019)

Position: Lawrence Fellow, Lawrence Livermore National Laboratory, Livermore, California

Daniel Floryan, Ph.D.

Advisors: Clarence Rowley, Alexander Smits

Thesis: Hydromechanics and Optimization of Fast and Efficient Swimming (5/16/2019)

Position: Postdoctoral Research Associate, University of Wisconsin, Madison, Wisconsin

Matthew Fu, Ph.D.

Advisor: Marcus Hultmark

Thesis: Measuring and Modifying the Near-wall Behavior of Wall-bounded Turbulence (8/27/2018)

Position: Postdoctoral Researcher, University of Melbourne, Melbourne, Australia (7/2019); Postdoctoral Research Associate, Mechanical and Aerospace Engineering, Princeton University

Remi Kahwaji, M.Eng.

Advisor: Alexander Glaser

Position: Engineering Project Manager, Dassault Falcon Jet Corporation, Little Ferry, New Jersey

Ching-Yao Lai, Ph.D.

Advisor: Howard Stone

Thesis: Fluid-Structure Interactions for Energy and the Environment (6/4/2018)

Position: Lamont Postdoctoral Fellow, Lamont-Doherty Earth Observatory, Columbia University, Earth Institute, Palisades, New York

Peter Landgren, Ph.D.

Advisor: Naomi Leonard

Thesis: Distributed Multi-agent Multi-armed Bandits (11/9/2018)

Position: Software Development Engineer, Amazon.com, Inc., Seattle, Washington

Weiyu Li, M.S.E.

Advisor: Yiguang Ju

Thesis: Flame Dynamics in Supercritical Conditions (4/2019)

Mark Miller, Ph.D.

Advisor: Marcus Hultmark

Thesis: High Reynolds Number Horizontal and Vertical Axis Wind Turbine Experiments (11/1/2018)

Position: Assistant Professor of Aerospace Engineering at the Pennsylvania State University, University Park, Pennsylvania (8/2019); Postdoctoral Research Associate, Mechanical and Aerospace Engineering, Princeton University

Cody Nunno, Ph.D.

Advisor: Michael Mueller

Thesis: Reduced-Order Manifold Models for Non-Adiabatic Turbulent Combustion (5/14/2019)

Position: Postdoctoral Research Associate, Argonne National Laboratory, Lemont, Illinois

Bruce Perry, Ph.D.

Advisor: Michael Mueller

Thesis: Computationally Efficient Large Eddy Simulation of Multi-Stream Partially Premixed Turbulent Combustion (5/16/2019)

Position: Postdoctoral Researcher, National Renewable Energy Laboratory, Golden, Colorado

Christopher Reuter, Ph.D.

Advisor: Yiguang Ju (*Michael Mueller will comment*)

Thesis: Chemistry and Dynamics of Counterflow Cool Flames (5/9/2019)

Position: Postdoctoral Fellow, Air Force Research Lab, Wright-Patterson Air Force Base, Dayton, Ohio

Sandra Sowah, M.S.E.

Advisor: Howard Stone, Michael Mueller

Thesis: Laminar and Turbulent Secondary Flow Profiles for Curved Pipes of Constant Radius of Curvature (1/2019)

Emre Turkoz, Ph.D. MAEMS

Advisor: Craig Arnold

Thesis: High-Resolution Printing of Complex Fluids Using Blister-Actuated Laser-Induced Forward Transfer (5/15/2019)

Position: Research Physicist, Exxon Mobil Corporate Strategic Research, Clinton, New Jersey

Joseph Tylka, Ph.D.

Advisor: Edgar Choueiri

Thesis: Virtual Navigation of Ambisonics-Encoded Sound Fields Containing Near-Field Sources (5/9/2019)