

Education

B.S. (1987), Ohio Northern University, Ada OH
S.M. (1989) and Sc.D. (1993), Woods Hole Oceanographic Institution, Woods Hole MA,
and Massachusetts Institute of Technology, Cambridge MA

Consulting (1995-)

American Electronics, Woods Hole Marine Systems, Bluefin Robotics, FlatGyro, BAE Systems,
Walt Disney Imagineering, Impossible Pictures, Innovasea

MIT Service (1996-)

Departments of Ocean and Mechanical Engineering: Research Engineer, Principal Research
Engineer, Assistant Professor, Associate Professor, Senior Lecturer

Areas of Expertise

- Applied mechanics, dynamics, and control
- Flow-structure interaction
- Robotic ship hull inspection
- Stochastic simulation and optimization in power systems
- Communication-constrained, multi-agent ocean systems
- Author or co-author on over one hundred refereed papers

Professional

Associate Editor, IEEE Journal of Oceanic Engineering (2006-2015); Member IEEE & ASME

Awards and Honors

- MTS Lockheed Martin Award for Ocean Science and Engineering (2012)
- ICRA Best Paper Finalist, 5/873 (2013)
- MIT School of Engineering Ruth and Joel Spira Award for Excellence in Teaching (2013)
- Frontiers of Engineering Education delegate, National Academy of Engineering (2013)
- IEEE Oceanic Engineering Society Presidential Award (2015)