

KEUNHAN (KAY) PARK

Assistant Professor

Department of Mechanical Engineering, University of Utah
50 S Central Campus Dr., Salt Lake City, UT 84112Phone: Email: kpark@mech.utah.edu Homepage: <http://mech.utah.edu/kay-park>**EDUCATION**

Urbana, IL	University of Illinois at Urbana Champaign Postdoctoral Researcher; Beckman Institute for Advanced Science and Technology Advisor: Rohit Bhargava	2007-2008
Atlanta, GA	Georgia Institute of Technology Ph.D. in Mechanical Engineering (Major: Heat Transfer, Minor: Optics and Photonics) Advisors: Zhuomin Zhang and William P. King	2002-2007
Seoul, Korea	Seoul National University M.S. in Mechanical Engineering (Major: Thermodynamics) B.S. in Mechanical Engineering Advisor: Sung Tack Ro	1993-1999

PROFESSIONAL APPOINTMENTS

Salt Lake City, UT	University of Utah Assistant Professor; Mechanical Engineering	2013-Present
Kingston, RI	University of Rhode Island Assistant Professor; Mechanical, Industrial and Systems Engineering	2008-2013
Jinhae, Korea	Republic of Korea Naval Academy Lecturer; Mechanical Engineering	1999-2002

JOURNAL PUBLICATIONS

29. S. Hamian, T. Walsh, I. Park & **K. Park** (2013). "Design, Fabrication, and Characterization of Sub-100 nm Resistive Nanothermometers on Substrate." To be submitted to *Review of Scientific Instruments*.
28. N. Palombo, G. Lee, G. D. Bothun, J. Lee & **K. Park** (2013). "Fluorescence Manipulation Using Dynamic Near-Field Optical Interactions between Quantum Dots and Plasmonic Nanoparticles." To be submitted to *Nano Letters*.
27. S. Hamian, T. Yamada, M. Faghri & **K. Park** (2013). "2D Transient Diffusive-Ballistic Phonon Heat Transport in Slabs Using Finite Element Analysis." To be submitted to *International Journal of Heat and Mass Transfer*.

26. T. Walsh, J. Lee & **K. Park** (2013). "Laser-Assisted Heating of a Plasmonic Nanofluid Droplet in a Microchannel." To be submitted to *Small*.
25. A. Gaffreau, S. Hamian, T. Walsh, J. Lee & **K. Park** (2013). "Revisit of AC Electrothermal Characterization of a Doped-Si Microcantilever for Nanoscale Thermal Analysis Applications." To be submitted to *Journal of Heat Transfer*.
24. H. Aydin, H.-S. Lee, H.-J. Kim, S. K. Shin & **K. Park** (2013). "Off-Design Performance Analysis of a Closed-Cycle Ocean Thermal Energy Conversion System with Solar Thermal Preheating and Superheating." Submitted to *Journal of Renewable Energy*.
23. J. Kim, S. Han, T. Walsh, **K. Park**, B. J. Lee, W. P. King, and J. Lee (2013). "DC and AC Temperature Calibration of Heated Microcantilevers Using Scanning Thermoreflectance Microscopy." *Review of Scientific Instruments*. Vol. 84, 034903.
22. I. Lee, **K. Park** & J. Lee (2013). "Precision density and volume contraction measurements of ethanol-water binary mixtures using suspended microchannel resonators." *Sensors and Actuators A*. Vol. 194, 62.
21. T. Yamada, S. Hamian, B. Sundén, **K. Park**, and M. Faghri (2013). "Diffusive-Ballistic Heat Transport in Thin Films Using Energy Conserving Dissipative Particle Dynamics." *International Journal of Heat and Mass Transfer*. Vol. 61, 287.
20. **K. Park** & Z. M. Zhang (2013). "Fundamentals and Applications of Near-Field Radiative Energy Transfer." *Frontiers of Heat and Mass Transfer*. Vol. 4, 013001.
19. I. Lee, **K. Park** & J. Lee (2012). "Note: Precision viscosity measurement using suspended microchannel resonators." *Review of Scientific Instruments*. Vol. 83, 116106.
18. S. Lee, **K. Park** & D. C. Paine (2012). "Metallization Strategies for In₂O₃-based Amorphous Oxide Semiconductor Materials," *Journal of Materials Research*. Vol. 27, 2299.
17. B. J. Lee, **K. Park**, T. Walsh & L. Xu (2012). "Radiative Heat Transfer Analysis in Plasmonic Nanofluids for Direct Solar Thermal Absorption," *Journal of Solar Energy Engineering*. Vol. 134, 021009.
16. Z. Zhang, **K. Park** & B. J. Lee (2011). "Surface and Magnetic Polaritons on Two-Dimensional Nanoslab-Aligned Multilayer Structure." *Optics Express*. Vol. 19, 16375.
15. N. Heeder, A. Shukla, V. Chalivendra, S. Yang & **K. Park** (2011). "Electrical Response of Carbon Nanotube Reinforced Nanocomposites under Static and Dynamic Loading." *Experimental Mechanics*. Vol. 52, 315-322.
14. B. Kwon, C. Wang, **K. Park**, R. Bhargava & W. P. King (2011). "Thermomechanical Sensitivity of Microcantilevers in the Mid-infrared Spectral Region," *Nanoscale and Microscale*

Thermophysical Engineering. Vol. 15, 16-28: Selected for the cover image of the February 15, 2011 Issue.

13. W. DiPippo, B. J. Lee & **K. Park** (2010). "Design Analysis of Surface Plasmon Resonance Immunosensors in Mid-Infrared Range," *Optics Express*. Vol. 18, 19396: Selected for the October 22, 2010 issue of *Virtual Journal of Biomedical Optics*.

12. E. Corbin, **K. Park** & W. P. King (2009). "On the Room-Temperature Temperature Sensitivity and Resolution of Doped-Silicon Microcantilevers," *Applied Physics Letters*, Vol. 94, 243503: Selected for the June 29, 2009 issue of *Virtual Journal of Nanoscale Science & Technology*.

11. Z. Dai, W. P. King & **K. Park** (2009). "100 Nanometer Resistive Heater-Thermometer on a Silicon Cantilever," *Nanotechnology*, Vol. 20, 095301: Selected for the cover image of the March 4, 2009 issue.

10. **K. Park**, J. Lee, R. Bhargava & W. P. King (2008). "Routine Femtogram-Level Chemical Analysis Using Vibrational Spectroscopy and Self-Cleaning Scanning Probe Microscopy Tips," *Analytical Chemistry*, Vol. 80, 3221-3228: Highlighted in the March 27, 2008 issue of *UIUC News*.

9. **K. Park**, G. L. W. Cross, Z. M. Zhang & W. P. King (2008). "Experimental Investigation on the Heat Transfer between a Heated Microcantilever and a Substrate," *Journal of Heat Transfer* Vol. 130, 102401.

8. B. J. Lee, **K. Park** & Z. M. Zhang (2007). "Energy Pathways in Nanoscale Thermal Radiation," *Applied Physics Letters*, Vol. 91, p. 153101: Selected for the cover image of the October 8, 2007 issue; Introduced in the October 30, 2007 issue (Vol. 3) of *Nanomaterials News*.

7. **K. Park**, S. Basu, W. P. King & Z. M. Zhang (2007). "Performance Analysis of Near-Field Thermophotovoltaic Devices Considering Absorption Distribution," *Journal of Quantitative Spectroscopy and Radiative Transfer* Vol. 109, pp. 305-316: Selected as one of the most influential articles during 2008-2013.

6. **K. Park**, A. Marchenkov, Z. M. Zhang & W. P. King (2007). "Low Temperature Characterization of Heated Microcantilevers," *Journal of Applied Physics*, Vol. 101, p. 094504: Selected for the May 21, 2007 issue of *Virtual Journal of Nanoscale Science & Technology*.

5. **K. Park**, J. Lee, Z. M. Zhang & W. P. King (2007). "Topography Imaging with a Heated Atomic Force Microscope Cantilever in Tapping Mode," *Review of Scientific Instruments*, Vol. 78, p. 043709: Selected for the May 14, 2007 issue of *Virtual Journal of Nanoscale Science & Technology*.

4. K. J. Kim, **K. Park**, J. Lee, Z. M. Zhang & W. P. King (2007). "Nanotopographical Imaging Using a Heated Atomic Force Microscope Cantilever Probe," *Sensors and Actuators A*, Vol. 136, pp. 95-103.

3. **K. Park**, J. Lee, Z. M. Zhang & W. P. King (2007). "Frequency-Dependent Electrical and Thermal Response of Heated Atomic Force Microscope Cantilevers," *Journal of Microelectromechanical Systems*, Vol. 16, pp. 213-222.

2. **K. Park**, B. J. Lee, C. J. Fu & Z. M. Zhang (2005). "Study of the Surface and Bulk Polaritons with a Negative Index Material," *Journal of the Optical Society of America B*, Vol. 22, pp. 1016-1023.

1. Z. M. Zhang & **K. Park** (2004). "On the Group Front and Group Velocity in a Dispersive Medium upon Refraction from a Nondispersive Medium," *Journal of Heat Transfer*, Vol. 126, pp. 244-249.

NON-REFEREED PUBLICATIONS

2. R. Sadlier & K. Park (2012). *Online Release of the LEGO®-AFM Project through YouTube* (<http://youtu.be/GjVWN0YQUfM>);

Highlighted in the *URI Today* (<http://www.uri.edu/news/releases/?id=6402>),

URI Engineering Innovations (<http://egr.uri.edu/the-joy-of-teaching-research/>),

The Big Story (<http://ww2.uri.edu/big-stories/at-uri-legos-are-serious-play-and-science-too>)

ME Today: ASME Newsletters and Magazine (<http://www.asme.org/kb/newsletters/me-today/me-today---january-2013-issue/stem-focus--development-of-an-automated--large>)

1. Z. M. Zhang & **K. Park** (2011). "Near-Field Thermal Radiation," for the encyclopedia in the *Thermal-Fluids Central* online community (www.thermalfluidscentral.org).

REFEREED CONFERENCE PROCEEDINGS

16. J. Kim, S. Han, **K. Park**, B. J. Lee, W. P. King, & J. Lee (2013). "DC and AC electrothermal characterization of heated microcantilevers using scanning thermoreflectance microscopy," The 26th IEEE International Conference on Microelectromechanical Systems (Taipei, Taiwan), MEMS2013-1149.

15. T. Yamada, S. Hamian, Y. Asako, **K. Park** & M. Faghri (2012). "Diffusive-Ballistic Heat Transport in Thin Film Using Energy Conserving Dissipative Particle Dynamics." *The ASME 2012 International Mechanical Engineering Congress and Exposition* (Houston, TX), IMECE2012-89641.

14. N. Palombo & **K. Park** (2012). "Experimental study of enhancement and quenching of plasmon-controlled fluorescence using quantum dot-plasmonic nanoparticle mixtures in aqueous medium," *The ASME 2012 International Mechanical Engineering Congress and Exposition* (Houston, TX), IMECE2012-89642.

13. N. Palombo & **K. Park** (2011). "Investigation of Dynamic Near-Field Radiation Between Quantum Dots and Plasmonic Nanoparticles for Effective Tailoring of Solar Spectrum." *The*

ASME 2011 International Mechanical Engineering Congress and Exposition (Denver, CO), IMECE2011-64561.

12. A. Gauffreau & **K. Park** (2011). “Femtogram-Level Thermophysical Property Measurement of Polymeric Samples using Heated Microcantilevers.” *The ASME/JSME 2011 8th Thermal Engineering Joint Conference* (Honolulu, HI), AJTEC2011-44489.

11. A. Gauffreau, W. DiPippo & **K. Park** (2010). “AC Characterization of Heated Microcantilevers for Femtogram-Level Thermophysical Property Measurement.” *The International Heat Transfer Conference (IHTC-14)* (Washington DC), IHTC14-22914.

10. W. DiPippo, B. J. Lee & **K. Park** (2010). “Development of Surface Plasmon Resonance Immunosensors at Mid-Infrared Range,” *The International Heat Transfer Conference (IHTC-14)* (Washington DC), IHTC14-22932.

9. W. DiPippo, B. J. Lee & **K. Park** (2009). “Theoretical Investigation of Tip-Based Nanoscale Infrared Spectroscopy,” *The 2009 ASME Summer Heat Transfer Conference* (San Francisco, CA), HT2009-88538.

8. Z. Dai, **K. Park** & W. P. King (2009). “100 Nanometer Scale Heater-Thermometer on a Silicon Cantilever,” *The 22nd IEEE International Conference on Micro Electro Mechanical Systems (MEMS)* (Sorrento, Italy), 0094, poster.

7. B. J. Lee, **K. Park** & Z. M. Zhang (2007). “Visualization of Energy Streamlines in Near-Field Thermal Radiation,” in Photogallery – Heat Transfer Visualization, *2007 ASME-JSME Thermal Engineering and Summer Heat Transfer Conference* (Vancouver, Canada).

6. **K. Park**, G. L. W. Cross, Z. M. Zhang & W. P. King (2007). “Heat Transfer between a Heated Microcantilever and the Substrate,” *2007 ASME-JSME Thermal Engineering Summer Heat Transfer Conference* (Vancouver, Canada), HT2007-321536.

5. **K. Park**, S. Basu, W. P. King & Z. M. Zhang (2007). “Performance Analysis of Near-Field Thermophotovoltaic Devices Considering Absorption Distribution,” *The 5th International Symposium on Radiative Transfer* (Bodrum, Turkey), RadV-047.

4. **K. Park**, J. Lee, Z. M. Zhang & W. P. King (2007). “Nanotopography Imaging Using a Heated Microcantilever in Tapping Mode,” *The 14th International Conference on Solid-State Sensors, Actuators, and Microsystems* (Lyon, France), AM0133.

3. J. Lee, T. Beechem, **K. Park**, Z. M. Zhang, S. Graham & W. P. King (2006). “Thermal and Mechanical Characterization and Calibration of Heated Microcantilevers,” *Solid-State Sensors, Actuators, and Microsystems Workshop 2006* (Hilton Head Island, SC), pp. 336-339.

2. **K. Park**, B. J. Lee, C. J. Fu & Z. M. Zhang (2003). “Effects of Surface and Bulk Polaritons on the Radiative Properties of a Multilayer Structure with a Left-handed Medium,” *ASME*

International Mechanical Engineering Congress & Exposition (Washington DC), IMECE2003-41972.

1. Z. M. Zhang & **K. Park** (2003). "On the Group Front and Group Velocity in a Dispersive Medium upon Refraction from a Nondispersive Medium," *ASME Summer Heat Transfer Conference* (Las Vegas, NV), HT2003-47368.

NON-REFEREED CONFERENCE PRESENTATIONS

10. T. Walsh, **K. Park**, & J. Lee (2012). "Design Analysis of Heater-Integrated Suspended Microchannel Resonators." *The ASME 2012 International Mechanical Engineering Congress and Exposition* (Houston, TX), IMECE2012-89312.

9. R. Sadlier, S. Waleyko & **K. Park** (2012). "Development of an automated, large scale LEGO-AFM for nanotechnology education," *The ASME 2012 International Mechanical Engineering Congress and Exposition* (Houston, TX), IMECE2012-87442 for the ASME Undergraduate Research and Design Competition.

8. L. Maranda, L. M. Killea, **K. Park**, R. P. Miller & W. Mildon (2012). "Biofilm development on high-performance molded materials in a temperate northern estuary," *The 16th International Congress on Marine Corrosion and Fouling* (Seattle, WA), poster MP-09.

7. N. Palombo & **K. Park** (2012). "Dynamic Near-field Interactions between Quantum Dots and Plasmonic Nanoparticles in Aqueous Solutions." *The Annual NASA Rhode Island Space Grant Symposium* (Kingston, RI), presentation only.

6. T. Walsh, B. J. Lee, J. Lee & **K. Park** (2012). "Investigating Laser-Induced Heating of Plasmonic Nanofluids for a Fast, High Throughput Polymerase Chain Reaction." *The ASME 2012 3rd Micro/Nanoscale Heat and Mass Transfer International Conference* (Atlanta, GA), MNHMT2012-75127.

5. B. J. Lee & **K. Park** (2011). "Direct Solar Thermal Absorption using Blended Plasmonic Nanofluids." *The ASME 2011 International Mechanical Engineering Congress and Exposition* (Denver, CO), IMECE2011-64067.

4. **K. Park** (2011). "On the AC Heating Operation of Doped-Si Microcantilever Heater-Thermometer Probes for Thermophysical Property Measurement." *The 39th Annual Conference of North American Thermal Analysis Society* (Des Moines, IA), presentation only.

3. Z.-J. Zhang, B. J. Lee & **K. Park** (2010). "Modeling Radiative Properties of Nanowire-Aligned Multilayer Structures." Open forum on "Radiative Transfer and Properties for Renewable Energy Applications." *The International Heat Transfer Conference (IHTC-14)* (Washington DC).

2. **K. Park**, J. Lee, W. P. King & R. Bhargava (2008). "Femtogram-Level Spectroscopic Analysis Using Functional Self-Cleaning Scanning Probe Tips," *The 59th Annual Pittsburgh*

Conference and Exposition on Analytical Chemistry and Applied Spectroscopy (New Orleans, LA), presentation only; *The 36th Annual Conference of North American Thermal Analysis Society* (Atlanta, GA), presentation only.

1. **K. Park**, Z. M. Zhang, W. P. King & A. Marchenkov (2006). “Electrical and Thermal Characteristics of Heated Atomic Force Microscope Cantilevers at Low Temperatures,” *ASME International Mechanical Engineering Congress & Exposition* (Chicago, IL), presentation only.

INVITED PRESENTATIONS

Arlington, TX “Engineering Thermal Energy Transport and Interactions with Micro/Nanostructures.” *University of Texas at Arlington*, Mechanical Engineering (April 2013).

SLC, UT “Engineering Thermal Energy Transport and Interactions with Micro/Nanostructures.” *University of Utah*, Mechanical Engineering (Mar 2013).

Seoul, Korea “I. On the AC heating operation of doped-Si microcantilever heater-thermometer probes; and II. Design of a sub-nW suspended microchannel calorimetry.” *Global Research Network Workshop 2012: Microcantilever Sensing and Imaging* (June 2012).

Dartmouth, MA “Think Small, We Do: Engineering Energy Interactions between Micro/Nanostructures,” *University of Massachusetts at Dartmouth*, Mechanical Engineering (April 2011).

Pittsburgh, PA “Think Small, We Do: Engineering Energy Interactions between Micro/Nanostructures,” *University of Pittsburgh*, Mechanical Engineering and Material Science (March 2011).

Telluride, CO “Experimental Studies on Thermal Transport of Doped-Silicon Microcantilevers,” *2010 DSRC Workshop: Thermal Transport at the Nanoscale* (June 2010).

Ulsan, Korea “Small Is Beautiful: Nanoscale Instrumentations for Localized Thermal and Spectroscopic Analysis,” *Ulsan National Institute of Science and Technology*, Mechanical Engineering (August 2009)

Seoul, Korea “Small Is Beautiful: Nanoscale Instrumentations for Localized Thermal and Spectroscopic Analysis,” *Seoul National University*, Mechanical Engineering (August 2009); *Sogang University*, Mechanical Engineering (August 2009)

Kingston, RI “Nanoscale Thermal Imaging and Analysis Using Scanning Thermal Microscopy,” *The 2nd Brown-URI Mini-Conference in Nanoscience and Nanotechnology* (April 2009).

- St. Paul, MN “When AFM Met Spectroscopy: Towards Nanoscale Total Analysis Systems,” *University of Minnesota at Twin City*, Mechanical Engineering (May 2008).
- Kingston, RI “When AFM Met Spectroscopy: Towards Nanoscale Total Analysis Systems,” *University of Rhode Island*, Mechanical Engineering and Applied Mechanics (April 2008).
- Madison, WI “Applications of Micro/Nanoscale Thermal Energy Transport,” *University of Wisconsin at Madison*, Mechanical Engineering (March 2007).

CURRENT & PREVIOUS FUNDED PROJECTS

Co-PI, “Multifunctional and Stimuli-Responsive Core-Shell Nanoparticles Based on Liposome Templating,” NSF-CBET 1337061, \$329,904: 12/01/2013-11/30/2016, with Geoffrey D. Bothun (PI) and Arijit Bose (Co-PI) at URI.

Co-PI, “NUE: Interdisciplinary *Nano Tools* course at the University of Rhode Island,” NSF-EEC 1242129, \$199,896: 12/01/2012 – 11/30/2014, with Geoffrey D. Bothun (PI) and Vinka Oyanedel-Craver (Co-PI) at URI.

PI, “Collaborative Research: Exploration of near-field thermophotovoltaic energy conversion for efficient thermal energy recycling,” NSF-CBET 1236239, \$326,992 (\$176,992 allocated to URI): 09/01/2012 – 08/31/2015, with Sung Kwon Cho (PI) at the University of Pittsburgh.

Co-PI, “Development of heater-integrated nanofluidic resonators for gravimetric and thermal measurements of nanoparticles,” 2011 Global Research Network (Korea Government Program), \$300,000 (\$102,600 allocated to Park): 08/01/2011 – 07/31/2014, with Jungchul Lee (PI) at Sogang University, Korea.

PI, “Investigation of Nanoscale Thermal Transport Across a Point Constriction In Contact and Within a Sub-10 nm Gap,” NSF-CBET 1067441, \$325,562: 04/01/2011 – 03/31/2014, with Mohammad Faghri (Co-PI) at URI.

PI, “Nanofluid-Based High-Efficiency Solar Cells,” Rhode Island Space Grant, \$73,125: 05/01/2011 – 04/30/2012.

PI, “Laser-Induced Heating of Plasmonic Nanofluids for the Polymerase Chain Reaction,” RI/Brown RI Consortium for Nanoscience and Nanotechnology Research Development Fund, \$5,000: 02/01/2011 – 01/31/2012.

Co-PI, “Marine Biofouling on High Performance Molded Materials,” RI-STAC Research Alliance 2011 Collaborative Research Grants, \$94,644: 02/01/2011 – 01/31/2012, with Lucie Maranda (PI) at URI and William Mildon (Co-PI) at Ametek HCC INC.

PI, “Acquisition of a Wire-Bonding Machine for Electrical Packaging of Micro/Nanofabricated Devices,” URI Equipment and Lab Infrastructure Renovation Award, \$ 23,200: 05/01/2010 – 04/30/2012.

PI, “Development of Infrared Atomic Force Microspectroscopy (IR-AFMS) for Bio/Nanomaterials Research,” URI Research Proposal Development Grant Program, \$ 9,435.00: 07/01/2009 – 12/31/2009.

PI, “Nanoscale Thermal Property Measurement Using Scanning Thermal Microscopy (SThM),” URI-Foundation 2009 Faculty Assistance Fund Grants, \$2,000.

HONORS AND AWARDS

The Highest Score Award on the Ph.D. Qualifying Exam in ME at Georgia Tech (Nov. 2003)

The Best Teacher Award at the R.O.K. Naval Academy (June 2002)

Fellowship awarded by the Hyundai Motor Company, Ltd. (1997-1999)

Seoul National University Scholarship (1995-1996)

PROFESSIONAL AND SYNERGETIC ACTIVITIES

Membership American Society of Mechanical Engineering (ASME) (2003 – present)
Optical Society of America (OSA) (2008 – 2011)
North America Thermal Analysis Society (NATAS) (2008 – 2011)

Journal Reviewer Applied Physics Letters (2007 – Present)
IEEE Sensor (2008 – Present)
Journal of Heat Transfer (2008 – Present)
Journal of Quantitative Spectroscopy and Radiative Transfer (2009 – Present)
Journal of Thermophysics and Heat Transfer (2009 – Present)
Solar Energy Materials & Solar Cells (2010 – Present)
Sensors and Actuators B (2010 – Present)
Journal of Sound and Vibration (2011 – Present)
Proceedings of Royal Society A (2012 – Present)

Proposal Reviewer NSF-CBET (Thermal Transport Process Program): S2011, 2013
NSF-PHY (Mathematical Physics): 2013

Conference Committee

Track Co-organizer: The 3rd Microscale and Nanoscale Heat and Mass Transfer Conference (2012)

Topic Co-organizer: The 8th ASME/JSME Thermal Engineering Joint Conference (2011)

Session Chair: ASME International Mechanical Engineering Congress and Exposition (2011, 2012, 2013)
 The 39th North American Thermal Analysis Society Annual Conference (2011)
 The 14th International Heat Transfer Conference (2010)

COURSES TAUGHT

University of Rhode Island

Undergraduate	MCE448: Heat and Mass Transfer (S10, S11) MCE438: Internal Combustion Engine (F08, F09, S11, S12) MCE414: Mechanical Engineering Experimentation (F09, F10, F11, F12)
Graduate	MCE541: Advanced Thermodynamics (S10, F11, S13) MCE545: Heat Transfer (F10, F12) MCE580: Micro/Nanoscale Energy Transport (S09)

STUDENT ADVISING

2008-Present **Graduate Research Advisor for:**
 Sina Hamian (ME, PhD Program), 2011-Present
 Hakan Aydin (ME, MS Program), 2012-Present
 Timothy Walsh (ME, MS Program), 2012-Present

Undergraduate Research Advisor for:
 Ronald Sadlier (Major in Physics and Applied Math), 2012-2013
 Alyssa Zisk (Major in ME), 2012-2013
 Catherine LiVolsi (Major in Physics), 2012-2013
 Gahye Kim (Major in ME, International Exchange Student), 2012-2013

Alumni: William DiPippo (ME, MS), 2010 – Holographix LLC.
 Andrew Gauffreau (ME, MS), 2012
 Nola Palombo (ME, MS), 2012

Justin Freeman (ME, BS), 2010 – Purdue University (PhD Program)
 Jarrod Pierce (ME, BS), 2010 – Pentair Technical Products.
 Patrick Keough (ME, BS), 2011 – Electric Boat.
 Christopher O’Connell (ME, BS), 2011 – URI (MS Program)
 Timothy Walsh (ME, BS), 2011
 Stacie Waleyko (CS, BS), 2012

2008-2013 **Thesis Defense Committee of (at URI):**
 Yamada Toru (Ph.D. 2012, ChE/ME, Advised by Profs. O. Gregory & M. Faghri)
 Peng Li (Ph.D. 2010, ME, Advised by Prof. M. Faghri)
 Anurag Kumar (Ph.D. 2010, ME, Advised by Prof. M. Faghri)

Elaine Foun (MS 2012. Chemistry, Advised by Prof. J. Dwyer)

David Bello (MS 2011, ChE, Advised by Prof. G. Bothun)

David Tang (MS 2010, ME, Advised by Prof. Z. Zhang)

Thesis Defense Chair of:

Qian Ni (MS 2010, CHE, Advised by Prof. G. Bothun)

Indrani Chakraborty (MS 2010, CHE, Advised by Prof. A. Bose)

UNIVERSITY SERVICE**University of Utah**

2013-present Graduate Program Committee

University of Rhode Island

2012-2013 Research Group for CoE Master Plan

2011-2013 Academic advisor (A-K for 2014 class)

2011-2013 Pi Tau Sigma Advisor

2009-2013 Laboratory Committee Chair

2008-2013 Laboratory Committee