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# Daniel Alan Heller

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Molecular Pharmacology and Chemistry Program  
Memorial Sloan-Kettering Cancer Center  
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<http://www.researcherid.com/rid/A-4283-2008>

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## Appointments

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12/2012- *Assistant Professor*, Physiology, Biophysics, & Systems Biology Graduate Program, Weill Cornell Medical College, Cornell University, New York, New York

8/2012- *Assistant Professor*, Tri-Institutional Training Program in Chemical Biology, New York, New York

8/2012- *Assistant Professor*, Department of Pharmacology, Weill Cornell Medical College, Cornell University, New York, New York

8/2012- *Faculty Member*, Experimental Therapeutics Center, Memorial Sloan-Kettering Cancer Center, New York, New York

6/2012- *Assistant Professor*, Gerstner Sloan-Kettering Graduate School of Biomedical Sciences

6/2012- *Faculty Member*, Nanotechnology Center, Memorial Sloan-Kettering Cancer Center, New York, New York

6/2012- *Assistant Member*, Molecular Pharmacology & Chemistry Program, Memorial Sloan-Kettering Cancer Center, New York, New York

7/2010-5/2012 *Damon Runyon Fellow*, Koch Institute for Integrative Cancer Research, Robert Langer Group, Massachusetts Institute of Technology, Boston, Massachusetts

2/2010-6/2010 *Postdoctoral Research Associate*, Koch Institute for Integrative Cancer Research, Robert Langer Group, Massachusetts Institute of Technology, Boston, Massachusetts

6/2006-8/2006 *Visiting Scientist/CESRI Fellow*, Jörg Langowski Group, German Cancer Research Center, Heidelberg, Germany

8/2003-2/2010 *Graduate Researcher*, Departments of Chemistry, Chemical Engineering, Michael Strano Group, University of Illinois at Urbana-Champaign, Urbana, Illinois

9/2002-6/2003 *Researcher*, Visigen Biotechnologies, Houston, Texas

5/2002-6/2003 *Visiting Scientist*, Rice Quantum Institute, Robert Curl Group, Rice University, Houston, Texas

4/2002-6/2003 *Visiting Scientist*, Department of Chemistry, T. Randall Lee Group, University of Houston, Houston, Texas

8/2000-5/2002 *Science Teacher*, 7<sup>th</sup> and 8<sup>th</sup> grades, The Kinkaid School, Houston, Texas

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## Education

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5/2010 PhD. in Chemistry, University of Illinois at Urbana-Champaign  
Advisor: Michael S. Strano; Thesis link: <http://hdl.handle.net/2142/16052>

5/2000 B.A. in History, Rice University, Houston, Texas

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## Awards and Honors

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2012 NIH Director's New Innovator Award

2010 Damon Runyon Cancer Research Foundation Postdoctoral Fellowship

2009 Finalist, Materials Research Society Graduate Student Award

2006 Walter Brown Fellowship, Department of Chemistry, University of Illinois

2006 Beckman Institute Graduate Fellowship, University of Illinois

2006 Collaboration Success Award, Council of Chemical Research

2006 NSF/IIE CESRI Fellowship

2003 Roger Adams Fellowship, Department of Chemistry, University of Illinois

## Publications List

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### Peer-Reviewed Publications

(36) J Zhang, S Kruss, AJ Hilmer, S Shimzu, Z Schmois, FDL Cruz, PW Barone, **DA Heller**, NF Reuel, MS Strano: "A Rapid, Direct, Quantitative, and Label-Free Detector of Cardiac Biomarker Troponin T Using Near Infrared Fluorescent Single-walled Carbon Nanotube Sensors." *Advanced Healthcare Materials* (2013) Accepted.

(35) Y Zhang, JM Pelet, **DA Heller**, J Wallas, BJ Joseph, Y Dong, D Chen, Z Gu, DG Anderson: "Lipid-Modified Aminoglycoside Derivatives for in vivo siRNA Delivery." *Advanced Materials* (2013) In press.

(34) AA Boghossian, F Sen, BM Gibbons, S Sen, SM Faltermier, JP Giraldo, CT Zhang, J Zhang, **DA Heller**, MS Strano: "Application of Nanoparticle Antioxidants to Enable Hyperstable Chloroplasts for Solar Energy Harvesting." *Advanced Energy Materials* (2013) In press.

(33) A Sharei, J Zoldan, A Adamo, WY Sim, N Cho, E Jackson, S Mao, S Schneider, M-J Han, A Lytton-Jean, PA Basto, S Jhunjhunwala, J Lee, **DA Heller**, JW Kang, GC Hartouarios, K-S Kim, DG Anderson, R Langer, KF Jensen: "A vector-free microfluidic platform for intracellular delivery." *Proceedings of the National Academy of Sciences* 110 (2013) 2082-2087.

(32) **DA Heller**, Y Levi, JM Pelet, JC Doloff, J Wallas, GW Pratt, S Jiang, G Sahay, A Schroeder, JE Schroeder, Y Chyan, C Zurenko, W Querbes, M Manzano, DS Kohane, R Langer, DG Anderson: "Modular 'Click-in-Emulsion' Bone-Targeted Nanogels." *Advanced Materials* 25 (2013) 1449-1454.

(31) JW Kang, FT Nguyen, N Lue, RR Dasari, **DA Heller**: "Measuring Uptake Dynamics of Multiple, Identifiable Carbon Nanotube Species via High-Speed Confocal Raman Imaging of Live Cells." *Nano Letters* 12 (2012) 6170-6174.

(30) AA Kayani, K Khoshmanesh, TG Nguyen, G Kostovski, AF Chrimes, M Nasabi, **D Heller**, A Mitchell, K Kalantar-Zadeh: "Dynamic manipulation of modes in an optical waveguide using dielectrophoresis." *Electrophoresis* 33 (2012) 2075-2085.

(29) AJ Hilmer, TP McNicholas, S Lin, J Zhang, QH Wang, JD Mendenhall, C Song, **DA Heller**, PW Barone, D Blankschtein, MS Strano: "The Role of Adsorbed Surfactant in the Reaction of Aryl Diazonium Salts with Single-Walled Carbon Nanotubes." *Langmuir* 28 (2012) 1309-1321.

(28) A Schroeder, **DA Heller**, MM Winslow, JE Dahlman, GW Pratt, R Langer, T Jacks, DG Anderson: "Treating metastatic cancer with nanotechnology." *Nature Reviews Cancer* 12 (2012) 39-50.

(27) AA Boghossian, J Zhang, PW Barone, NF Reuel, J-H Kim, **DA Heller**, J-H Ahn, AJ Hilmer, A Rwei, JR Arkalgud, CT Zhang, MS Strano: "Near-Infrared Fluorescent Sensors based on Single-Walled Carbon Nanotubes for Life Sciences Applications." *ChemSusChem* 4 (2011) 848-863.

(26) **DA Heller**, GW Pratt, J Zhang, N Nair, AJ Hansborough, AA Boghossian, NF Reuel, PW Barone, MS Strano: "Peptide Secondary Structure Modulates Single-Walled Carbon Nanotube Fluorescence as a Chaperone Sensor for Nitroaromatics." *Proceedings of the National Academy of Sciences* 108 (2011) 8544-8549.

(25) J Zhang, AA Boghossian, PW Barone, A Rwei, J-H Kim, D Lin, **DA Heller**, AJ Hilmer, N Nair, NF Reuel, MS Strano. "Single Molecule Detection of Nitric Oxide Enabled by d(AT)<sub>15</sub> DNA Adsorbed to Near Infrared Fluorescent Single-Walled Carbon Nanotubes." *Journal of the American Chemical Society* 133 (2010) 567-581.

(24) J-H Han, GLC Paulus, R Maruyama, **DA Heller**, W-J Kim, PW Barone, CY Lee, JH Choi, M-H Ham, C Song, C Fantini, MS Strano. "Exciton antennas and concentrators from core–shell and corrugated carbon nanotube filaments of homogeneous composition." *Nature Materials* 9 (2010) 833-839.

(23) M-H Ham, JH Choi, AA Boghossian, ES Jeng, RA Graff, **DA Heller**, AC Chang, A Mattis, TH Bayburt, YV Grinkova, AS Zeiger, KJ Van Vliet, EK Hobbie, SG Sligar, CA Wright, MS Strano: "Photoelectrochemical complexes for solar energy conversion that chemically and autonomously regenerate." *Nature Chemistry* 2 (2010) 929-936.

(22) H Jin, **DA Heller**, M Kalbacova, J-H Kim, J Zhang, AA Boghossian, N Maheshri, MS Strano: "Detection of single-molecule H<sub>2</sub>O<sub>2</sub> signalling from epidermal growth factor receptor using fluorescent single-walled carbon nanotubes." *Nature Nanotechnology* 5 (2010) 302-309.

(21) J-H Kim, J-H Ahn, PW Barone, H Jin, J Zhang, **DA Heller**, MS Strano: "A Luciferase/Single-Walled Carbon Nanotube Conjugate for Near-Infrared Fluorescent Detection of Cellular ATP." *Angewandte Chemie* 49 (2010) 1456-1459.

(20) J-H Kim, **DA Heller**, H Jin, PW Barone, C Song, J Zhang, LJ Trudel, GN Wogan, SR Tannenbaum, MS Strano: "The rational design of nitric oxide selectivity in single-walled carbon nanotube near-infrared fluorescence sensors for biological detection." *Nature Chemistry* 1 (2009) 473-481.

(19) **DA Heller**, H Jin, BM Martinez, D Patel, BM Miller, T-K Yeung, PV Jena, C Höbartner, T Ha, SK Silverman, MS Strano: "Multi-modal optical sensing and analyte specificity via single-walled carbon nanotubes." *Nature Nanotechnology* 4 (2009) 114-120.

(18) H Jin, **DA Heller**, R Sharma, MS Strano: "Size-Dependent Cellular Uptake and Expulsion of Single-Walled Carbon Nanotubes: Single Particle Tracking and a Generic Uptake Model for Nanoparticles." *ACS Nano* 3 (2009) 149-158.

(17) H Jin, **DA Heller**, J-H Kim, MS Strano: "A Stochastic Analysis of Stepwise Fluorescence Quenching Reactions on Single-Walled Carbon Nanotubes." *Nano Letters* 8 (2008) 4299-4304.

(16) H Jin, **DA Heller**, MS Strano: "Single-Particle Tracking of Endocytosis and Exocytosis of Single-Walled Carbon Nanotubes in NIH-3T3 Cells." *Nano Letters* 8 (2008) 1577-1585.

(15) A Rajan, MS Strano, **DA Heller**, T Hertel, K Schulten: "Length-Dependent Optical Effects in Single Walled Carbon Nanotubes." *Journal of Physical Chemistry B* 112 (2008) 6211-6213.

(14) H Jin, ES Jeng, **DA Heller**, PV Jena, R Kirmse, J Langowski, MS Strano: "Divalent Ion and Thermally Induced DNA Conformational Polymorphism on Single-Walled Carbon Nanotubes." *Macromolecules* 40 (2007) 6731-6739.

(13) JH Choi, FT Nguyen, PW Barone, **DA Heller**, AE Moll, D Patel, SA Boppart, MS Strano: "Multimodal Biomedical Imaging with Asymmetric Single-Walled Carbon Nanotube/Iron Oxide Nanoparticle Complexes." *Nano Letters* 7 (2007) 861-867.

(12) **DA Heller**, ES Jeng, T Yeung, BM Martinez, AE Moll, JB Gastala, MS Strano: "Optical Detection of DNA Conformational Polymorphism on Single-Walled Carbon Nanotubes." *Science* 311 (2006) 508-511.

(11) A Jorio, C. Fantini, MA Pimenta, **DA Heller**, MS Strano, MS Dresselhaus, Y Oyama, J Jiang, R Saito: "Carbon nanotube population analysis from Raman and photoluminescence intensities." *Applied Physics Letters* 88 (2006) 023109s.

(10) **DA Heller**, S Baik, TE Eurell, MS Strano: "Single-Walled Carbon Nanotube Spectroscopy in Live Cells: Towards Long-Term Labels and Optical Sensors." *Advanced Materials* 17 (2005) 2793-2799.

(9) EK Lewis, WC Haaland, FT Nguyen, **DA Heller**, MJ Allen, RR MacGregor, CS Berger, B Willingham, LA Burns, GBI Scott, C Kittrell, BR Johnson, RF Curl, ML Metzker: "Color-Blind Fluorescence Detection for Four-Color DNA Sequencing." *Proceedings of the National Academy of Sciences* 102 (2005) 5346-5351.

(8) RA Graff, JP Swanson, PW Barone, S Baik, **DA Heller**, MS Strano: "Achieving Individual Nanotube Dispersion at High Loading in Single-Walled Carbon Nanotube Composites." *Advanced Materials* 17 (2005) 980-984.

(7) **DA Heller**, PW Barone, MS Strano: "Sonication-induced changes in chiral distribution: A complication to the use of single-walled carbon nanotube fluorescence for determining species distribution." *Carbon* 43 (2005) 651-653.

(6) PW Barone, S Baik, **DA Heller**, MS Strano: "Near-infrared optical sensors based on single-walled carbon nanotubes." *Nature Materials* 4 (2005) 86-92.

(5) **DA Heller**, V Garga, KJ Kelleher, T-C Lee, S Mahbubani, LA Sigworth, TR Lee, MA Rea: "Patterned networks of mouse hippocampal neurons on peptide-coated gold surfaces." *Biomaterials* 26 (2005) 883-889.

(4) **DA Heller**, RM Mayrhofer, S Baik, YV Grinkova, ML Usrey, MS Strano: "Concomitant length and diameter separation of single-walled carbon nanotubes." *Journal of the American Chemical Society* 126 (2004) 14567-14573.

(3) **DA Heller**, PW Barone, JP Swanson, RM Mayrhofer, MS Strano: "Using Raman spectroscopy to elucidate the aggregation state of single-walled carbon nanotubes." *Journal of Physical Chemistry B* 108 (2004) 6905-6909.

(2) MS Strano, M Zheng, A Jagota, GB Onoa, **DA Heller**, PW Barone, ML Usrey: "Understanding the nature of the DNA-assisted separation of single-walled carbon nanotubes using fluorescence and Raman spectroscopy." *Nano Letters* 4 (2004) 543-550.

(1) SK Doorn, **DA Heller**, PW Barone, ML Usrey, MS Strano: "Resonant Raman excitation profiles of individually dispersed single walled carbon nanotubes in solution." *Applied Physics A-Materials Science & Processing* 78 (2004) 1147-55.

### Book Chapters and Other Publications

MS Strano, AA Boghossian, W-J Kim, PW Barone, ES Jeng, **DA Heller**, N Nair, H Jin, R Sharma, CY Lee: "The Chemistry of Single-Walled Nanotubes." *MRS Bulletin* 34 (2009) 950-961.

PW Barone, ES Jeng, **DA Heller**, MS Strano: "Biosensors based on single-walled carbon nanotube fluorescence." in *Handbook of Biosensors and Biochips* (Chichester: John Wiley & Sons, 2007.)

SK Doorn, **DA Heller**, ML Usrey, PW Barone, MS Strano: "Raman Spectroscopy of Single-Walled Carbon Nanotubes: Probing Electronic and Chemical Behavior." in *Carbon Nanotubes: Properties and Applications* (Boca Raton: Taylor & Francis Group, 2006.)

MS Strano, ML Usrey, PW Barone, **DA Heller**, S. Baik: "The Selective Chemistry of Single Walled Carbon Nanotubes." in *Applied Physics of Carbon Nanotubes* (Berlin: Springer-Verlag, 2005.)

### Patents

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**DA Heller**, J Wallas, Y Levi, GW Pratt, DG Anderson, R Langer: "Modular Polymer Hydrogel Nanoparticles and Methods of Their Manufacture." Provisional patent application filed 2012.

MS Strano, **DA Heller**: "Spectral Imaging of Photoluminescent Materials." PCT International Application PCT/US10/59897 filed with the US Patent Office, 2010.

MS Strano, **DA Heller**, GW Pratt: "Nanostructure-Based Sensors." US Patent Application 61/286,324 filed 2010.

MS Strano, **DA Heller**, GW Pratt: Systems and Methods Related to Optical Nanostructures Including Photoluminescent Nanostructures." US Patent Application 61/309,840 filed 2010.

MS Strano, J-H Kim, J Zhang, **DA Heller**: "Optical Nanosensors Comprising Photoluminescent Nanostructures." US Patent Application 12/850,752 filed 2010.

MS Strano, PW Barone, J Zhang, **DA Heller**: "A Synthetic Nanotube Antibody for Selective Molecular Recognition." Provisional patent application filed 2010.

RS Langer, A Jaklenec, **DA Heller**, DG Anderson, MS Strano: "Biodegradable Polymer-Wrapped Carbon Nanotubes." US Patent Application 61/286,764 filed 2009.

## **Invited Talks**

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"Measuring Uptake Dynamics of Multiple, Identifiable Carbon Nanotube Species Via High-Speed Confocal Raman Imaging of Live Cells." 223<sup>rd</sup> ECS Meeting, Toronto Canada, May 2013

"Carbon Nanotube-Based Optical Bioanalytical Sensors." Integrated Cancer Research Seminar Series, Georgia Institute of Technology, Atlanta, GA, April, 2013

"Carbon Nanotube-Based Optical Biosensors for Genotoxins and Nitroaromatics." Gordon Research Seminar in Bioanalytical Sensors, Salve Regina University, Newport, RI, June, 2012

"Materials Science vs. Metastasis." Cancer Community at Illinois Symposium, University of Illinois at Urbana-Champaign, Urbana, IL, April, 2012

"Carbon Nanotube Optical Biosensors for ROS and Explosives." ICB Seminar Series, Institute for Chemical and Biological Engineering, ETH Zurich, Switzerland, November, 2011.

"Single-Molecule Optical Detection of Genotoxins and Nitroaromatics with Carbon Nanotubes." Fassberg Seminar Series, Max Planck Institute for Biophysical Chemistry, Göttingen, Germany, November, 2011.

"Optical Detection of Explosives and Genotoxins with Carbon Nanotubes." Institut für Physikalische u. Theoretische Chemie, Universität Würzburg, Germany, November, 2011

"Single-Walled Carbon Nanotube Optical Biosensor Technologies." Advanced Technology Institute, University of Surrey, England, July, 2011.

"CESRI: How a Foreign Experience Affects Graduate Research." American Chemical Society National Meeting, Washington, DC, August, 2009.

"Single-Walled Carbon Nanotube Optical Biosensors for Genotoxic Agents." Universidad Nacional de Colombia, Bogota, Colombia, August, 2008.

"Carbon Nanotube Biosensors for Detection of Genotoxic Agents." Universidad de Los Andes, Bogota Colombia, August 2008.

"Single-Walled Carbon Nanotube Optical Biosensors for Genotoxic Agents." Indian Institute of Technology - Bombay, India, December 2007.

"Optical Sensors for DNA Structural Changes Using Single-Walled Carbon Nanotubes." Semmelweis University, Budapest, Hungary, June 2006.

## **Other Lectures (Selected)**

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"Towards Real-Time, Quantitative Bioanalytical Sensors." Nanotechnologies in Cancer Diagnosis, Therapy, and Prevention, New York Academy of Sciences, New York, NY, June, 2013.

“Real-Time Molecular Detection and Identification of ROS Activity via Carbon Nanotube Optical Biosensors.” Gordon Research Conference in Cancer Nanotechnology, Waterville, ME, July, 2011.

“Single-Molecule Optical Detection of Nitroaromatic Compounds by Carbon Nanotubes.” American Chemical Society National Meeting, Boston, MA, August, 2010.

“Single-Walled Carbon Nanotubes for Optical Biosensing with Multiple Modes.” 2<sup>nd</sup> Carbon Nanotube Biology, Medicine & Toxicology Satellite Symposium, Tenth International Conference on the Science and Application of Nanotubes, Beijing, China, June, 2009.

“Single-walled carbon nanotube multi-modal optical biosensors for genotoxin detection and identification.” American Chemical Society National Meeting, Salt Lake City, UT, March, 2009.

“Nanoscale Sensors for Multi-Modal Detection of Genotoxic Agents.” American Chemical Society National Meeting, Philadelphia, PA, August, 2008.

“Optical Detection of DNA-Drug Interactions in Live Cells Using Single-Walled Carbon Nanotubes.” Eighth International Conference on the Science and Application of Nanotubes, Ouro Preto, Brazil, June, 2007.

“Single-walled carbon nanotubes as near-infrared optical biosensors of DNA structure.” American Chemical Society National Meeting, San Francisco, CA, August, 2006.

“Organic Chemistry for Younger Students.” American Chemical Society National Meeting, New Orleans, LA, March, 2003.

## **Leadership and Outreach**

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2013-present	<i>Member</i> , Junior Faculty Council, Memorial Sloan-Kettering Cancer Center
2012-present	<i>Exhibits Advisor</i> , Houston Museum of Natural Science, Houston, TX
2012	<i>Founder and Organizer</i> , Crossfire Seminar Series, Koch Institute, MIT
2011-2012	<i>Guest Lecturer</i> , Museum of Science, Boston, MA
2011	<i>Speaker</i> , A Celebration of Innovation in Kendall Square, Cambridge, MA
2011-2012	<i>Presenter/Volunteer</i> , Koch Institute Outreach, MIT
2011	<i>Presenter</i> , MIT Open House
2009-2012	<i>Teacher/Volunteer</i> , MIT Museum
2009, 2011	<i>Volunteer/Presenter</i> , Cambridge Science Festival, Cambridge, MA
2006-2008	<i>Founder and President</i> , Center for Nanoscale Science and Technology Student Initiative, University of Illinois
2006-2008	<i>Founder and Organizer</i> , Graduate Seminar in the Applied Chemical Sciences, School of Chemical Sciences, University of Illinois
2005-2006	<i>Board of Exhibits</i> , Orpheum Children’s Science Museum, Urbana, IL
2005-2006	<i>Classroom Instructor</i> , Educating Tomorrow’s Chemists, Department of Chemistry, University of Illinois
2004-2012	<i>Board of Directors, Wizard</i> , Illinois Renaissance Festival, Danville, IL
2003-2004	<i>Organizer</i> , Careers in Academia Seminar Series, Department of Chemistry, University of Illinois
1996-2003	Houston Museum of Natural Science, Houston, TX <i>Teacher</i> , Astronomy and Education Departments, 2000-2003 <i>Exhibits Developer</i> , Exhibits Department, 1999-2000 <i>Volunteer</i> , Chemistry Demonstrations, 1996-2003

### *Online Media Outreach:*

Podcast – Museum of Science Boston: [http://www.mos.org/events\\_activities/podcasts&d=5268](http://www.mos.org/events_activities/podcasts&d=5268)

Podcast – Museum of Science Boston: [http://www.mos.org/events\\_activities/podcasts&d=4905](http://www.mos.org/events_activities/podcasts&d=4905)

Video – Celebration of Innovation in Kendall Square:  
<http://techtv.mit.edu/videos/72278d0d3cea6ce7d1ee105e6df5df2166c316d3/private>  
Video – Nanosensor Discussion, MIT: <http://techtv.mit.edu/videos/1497-nanosensors>

## Teaching and Mentorship

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2012-present *Supervisor*, Four postdocs, one graduate student, and one technician, MSKCC  
2012-present *Lecturer*, "Pharmacology I: Chemical Biology," Tri-Institutional Training Program  
2012-present *Lecturer*, "Molecular Pharmacology of Cancer," Weill Cornell Medical College  
2012 *Mentor*, Summer Undergraduate Research Program Student, MSKCC  
2010-2012 *Supervisor*, Two research technicians, MIT  
2008-2012 *Mentor*, Six Undergraduate Research Opportunities Program Scholars, MIT  
2005-2006 *Mentor*, Intel/Lockheed Martin Undergraduate Research Scholar, University of Illinois  
2003-2008 *Mentor*, Eight Undergraduate Research Assistants, University of Illinois  
2003-2004 *Graduate Teaching Assistant*, University of Illinois  
Chem 347 "Physical Chemistry Laboratory," Teaching Assistant, Spring 2004  
Chem 223 "Analytical Chemistry," Chemistry Merit Program Instructor, Fall 2003  
Chemistry Learning Center Instructor, Fall 2003  
2000-2002 *Middle School Teacher*, Physical & Life Sciences, The Kinkaid School, Houston, TX

## Professional Activities

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2013 *Session Chair*, Carbon Nanostructures in Medicine and Biology, 223<sup>rd</sup> ECS Meeting  
2010 *Judge*, Bionanotechnology Graduate Award Session, AIChE Annual Meeting  
2010 *Session Co-Chair*, Nanoscience in Polymer Chemistry, POLY Division, ACS National Meeting  
*Active reviewer for journals*: Advanced Materials, Analytical Chemistry, Carbon, Chemical Physics Letters, Environmental Science & Technology, Journal of Biological Physics, Journal of Nuclear Medicine, Journal of Physical Chemistry, Langmuir, Light: Science & Applications, PLoS One, Small

## Professional Associations

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American Chemical Society  
American Institute of Chemical Engineers  
Materials Research Society  
American Association for Cancer Research  
The Electrochemical Society  
Biomedical Engineering Society