

- Duquesne Light Co. Professor of Civil and Environmental Engineering, Carnegie Mellon University: 2015 to present
- Carnegie Mellon 1999 to present
- former Director, Center for Water Quality in Urban Environmental Systems
- former Specialty Editor for ASCE Journal of Computing and Civil Engineering
- former River Alert Information Network (RAIN) Advisory Committee:
- Nine Mile Run Watershed Association Research Committee:
- PA Water Environment Association Research Committee: 2007
- Visiting Professor in the Department of Civil Engineering at Northwestern University:1999-2000
- Visiting Assistant Professor at the Department of Energy, Center for Risk Excellence at Argonne National Laboratory: 9/98-6/99
- Author of more than 50 scientific papers and more than 150 presentations
- National Science Foundation Career Award
- MS, 1993 and Ph.D.,1998 in Civil (Environmental) Engineering, Northwestern University
- BS Education (Chemistry) 1990, Northwestern University

Recent Awards:

- 2016- Achievement Rewards for College Scientists (ARCS) Alumni Hall of Fame
- 2016 - Fellow of Environmental Water Resources Institute (EWRI) of the American Society of Civil Engineers (ASCE)
- 2015 - Barbara Lazarus Award for Graduate Student and Jr. Faculty Mentoring at Carnegie Mellon University
- 2015 - Carnegie Science Center Environmental Award
- 2015 - Margaret S. Peterson Award from the American Society of Civil Engineers
- 2013 - Phillip L. Dowd Fellowship Carnegie Mellon University
- 2011 - National Academy of Engineering Armstrong Endowment for Young Engineers Gilbreth Lectureship
- 2010 - Association for Environmental Engineering and Science Professors (AEESP) Distinguished Service Award
- 2010 - Selected presenter at NAE Frontiers of Engineering Education Symposium
- 2009 - Selected as Aldo Leopold Leadership Fellow
- 2009 - McGraw Hill/ AEESP Award for Outstanding Teaching in Environmental Engineering
- 2009 - Professor of the Year: American Society of Civil Engineers, Pittsburg Chapter
- 2008 - Selected participant NAE Indo-US Frontiers of Engineering Symposium, Infrastructure
- 2008 - Best Research Paper, Journal of Water Resources Planning and Management for "Efficient Sensor Placement Optimization for Securing Large Water Distribution Networks"
- 2007 - PA Water Environment Association Professional Research Award
- 2001 - National Science Foundation Career Award