

Curriculum Vitae
Patrick Crumrine, Ph.D.

Rowan University
Department of Geography, Planning, & Sustainability and Department of Biological Sciences
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EDUCATION

- 2003 Ph.D., Biology, University of Kentucky, Lexington, KY
Dissertation: *The role of size structure in cannibalism and intraguild predation in larval dragonflies*
- 2003 Graduate Certificate in Environmental Systems, University of Kentucky, Lexington, KY. A 10 credit hour cross-disciplinary program integrating law, policy, and science
- 1998 B.S., Biology, *Cum Laude*, State University of New York - Plattsburgh

APPOINTMENTS

- Interim Chairperson, Dept. of Geog., Planning and Sustainability Rowan Univ., 2016-present
- Associate Professor of Biology and Environmental Studies, Rowan University, 2011 - present
- Assistant Professor of Biology and Environmental Studies, Rowan University, 2006 - 2011
- REU Coordinator, Blandy Experimental Farm, University of Virginia, 2004 - present
- Assistant Professor of Biology, Longwood University, 2003 - 2006

RESEARCH INTERESTS

- Population and community-level effects of size structured interactions in aquatic insects
- Role of non-host predators of parasites in disease transmission
- Effects of micropollutants, particularly pharmaceuticals, on the ecology of aquatic insects
- Effects of urbanization on aquatic turtle population and community structure

Publications ⁺ undergraduate student

- Rohr, J.R., Civitello, D.J., **Crumrine, P.W.**, Halstead, N.T., ⁺Miller, A.D., Schotthoefer, A.M., ⁺Stenoien, C., Johnson, L.B., and Beasley, V.R. (2015). Predator diversity, intraguild predation, and indirect effects drive parasite transmission. *Proceedings of the National Academy of Sciences* 112(10), 3008-3013
- Halstead, N.T., McMahon, T.A., Johnson, S.A., Raffel, T.R., Romansic, J.M., **Crumrine, P.W.**, & Rohr, J.R. (2014). Community ecology theory predicts the effects of agrochemical mixtures on aquatic biodiversity and ecosystem properties. *Ecology Letters*, 17(8), 932-941.
- McMahon, T.A., Halstead, N.T., Johnson, S., Raffel, T.R., Romansic, J.M., **Crumrine, P.W.**, & Rohr, J.R. (2012). Fungicide-induced declines of freshwater biodiversity modify ecosystem functions and services. *Ecology Letters*, 15(7), 714-722.
- McMahon, T.A., Halstead, N.T., Johnson, S., Raffel, T.R., Romansic, J.M., **Crumrine, P.W.**, Boughton, R.K., Martin, L.B. & Rohr, J.R. (2011). The fungicide chlorothalonil is nonlinearly associated with corticosterone levels, immunity, and mortality in amphibians. *Environmental Health Perspectives*, 119(8), 1098.

- **Crumrine, P. W.** (2010) Size-structured cannibalism between top predators promotes the survival of intermediate predators in an intraguild predation system. *Journal of the North American Benthological Society* 29: 636-646.
- **Crumrine, P.W.** (2010) Impact of size structure and temperature on cannibalism in larvae of the migratory dragonfly, *Anax junius*. *Aquatic Ecology* 44: 761-770.
- **Crumrine, P.W.** (2006) Age specific behavioral responses of odonate larvae to chemical and visual stimuli from predators. *Journal of Freshwater Ecology*: 21: 9-16.
- **Crumrine, P.W.** (2005) Size-structure and substitutability in an odonate intraguild predation system. *Oecologia* 145: 132-139.
- Rohr, J.R. and **Crumrine, P.W.** (2005) Effects of an herbicide and an insecticide on pond community structure and processes. *Ecological Applications* 15: 1135-1147.
- **Crumrine, P.W.** and Crowley, P.H. (2003) Partitioning components of risk reduction in a dragonfly-fish intraguild predation system. *Ecology* 84: 1588-1597.

Publications in prep

- ⁺Carter, S.K., Vodopich, D., and Crumrine, P.W. (2016) Heterogeneity in body size and habitat complexity influence community interactions.

Book Chapters

- **Crumrine, P. W.** (2016). Don't Blame the Trees: Using Data to Examine How Trees Contribute to Air Pollution. In *Learner-Centered Teaching Activities for Environmental and Sustainability Studies* (pp. 245-250). Springer International Publishing.
- Culler, L. E., Ohba, S. Y., & **Crumrine, P.W.** (2014). Predator-Prey Interactions of Dytiscids. In *Ecology, Systematics, and the Natural History of Predaceous Diving Beetles (Coleoptera: Dytiscidae)* (pp. 363-386). Springer Netherlands.
- **Crumrine, P. W.**, Switzer, P. V., & Crowley, P. H. (2008). Structure and dynamics of odonate communities: accessing habitat, responding to risk, and enabling reproduction. *Dragonflies and Damselflies*. In *Model Organisms for Ecological and Evolutionary Research*. Oxford University Press, Oxford, 21-39.

Reports/newsletter articles in non-peer reviewed publications

- **Crumrine, P.W.** (1997). From Feast to Famine: The Tidal Cycle of the Mummichog. *Marsh Notes: The Newsletter of The Jug Bay Wetlands Sanctuary*. Volume 12 No. 3.
- **Crumrine, P.W.** and S. Bartimo (1997). A summary of turtle trapping: Mark's Pond, Jug Bay Wetlands Sanctuary. *Technical Report of the Jug Bay Wetlands Sanctuary*. 14 pgs.
- **Crumrine, P.W.** and S. Bartimo (1997). Two dozen turtles in one little pond. *Marsh Notes: The Newsletter of The Jug Bay Wetlands Sanctuary*. Volume 12 No. 3.

PROFESSIONAL PRESENTATIONS (*presenter, ⁺undergraduate student, [#]invited presentation)

Oral Presentations

- ***Crumrine, P.W.**, ⁺Grandinetti, M.E., ⁺Norwood, K.M., ⁺Kawecki, S. Size structure and identity of top predators in fishless ponds influence the survival of prey. *Joint Aquatic Sciences Meeting*, 2014

- ***Crumrine, P.W.**; ⁺Miller, A.D.; Beasley, V.R.; Schotthoefer; Johnson, L.B.; Rohr, J.R. Dragonfly diversity and density and parasite dodging dilute disease in amphibians. Ecological Society of America Annual Meeting, 2011.
- #**Crumrine, P.W.** Intraguild predation in larval dytiscids: Implications for the community structure of fishless ponds in eastern North America, Entomological Society of America Annual Meeting, 2010.
- #**Crumrine, P.W.** Impacts of alternative prey and intraguild predators on size-structured interactions in larval odonates, Ecological Society of America Annual Meeting, 2007.
- **Crumrine, P.W.** Examining the role of size structure on intraguild predation in larval odonates, Ecological Society of America Annual Meeting, 2003.
- #**Crumrine, P.W.** Examining the effects of aerial migration on size structure and cannibalism in dragonfly larvae. Special Session on Odonate Ecology and Evolution, N. American Benthological Society Annual Meeting, 2002.
- **Crumrine, P.W.** Behavioral interactions between intraguild predators: Implications for risk reduction and risk enhancement. Ecological Society of America Annual Meeting, 2000.
- **Crumrine, P.W.** Behavioral interactions between intraguild predators: Implications for risk reduction and risk enhancement. Ohio Valley Entomological Association, Student Paper Competition, 1999.
- *Niedzwiecki, J.H., **Crumrine, P.W.**, McCarthy, T.M.; Walters, A.M.; Sargent, R.C.; Sih, A.; Crowley, P.H. Effects of adaptive behavior in models of asymmetrical intraguild predation. Animal Behavior Society Annual Meeting, 1999.

Poster Presentations

- ***Crumrine, P.W.** Investigating the role of insect predators on trematode infection in tadpoles. Ecological Society of America Annual Meeting 2015
- ***Crumrine, P.W.**; ⁺Norwood, K.M., ⁺Grandinetti, M.E., ⁺Kawecki, S., and ⁺Diaz, L.O. Differences in behavior and prey preference influence size-structured predator-prey interactions among top predators. Ecological Society of America Annual Meeting, 2013.
- ***Crumrine, P.W.**, ⁺Kawecki, S, and ⁺Diaz, L.O. Differences in prey preference among top predators affects the size structure of prey communities. Ecological Society of America Annual Meeting, 2012.
- ***Crumrine, P.W.**, and ⁺Blong S.D. Learning by teaching: Using DQC's and K-12 outreach to address common misconceptions about carbon cycling and climate change. Ecological Society of America Annual Meeting, 2010.
- ***Crumrine, P.W.**, ⁺Dubiel L.E., ⁺ Lindsay T.M., ⁺Livingston, R.L., ⁺Nolan E.T., and ⁺Yates, B.S.. Effects of ecosystem service and citizenship lessons on environmental attitudes and behaviors of fourth grade students. Association of Environmental Studies and Sciences Annual Meeting 2009.
- ***Crumrine, P.W.**, ⁺Burgett A.A., ⁺Rynerson, M.L. ⁺Cornell, C.M., and ⁺Keweshan, R.S. Effects of shared prey density on intraguild predation: Does experimental venue matter? Ecological Society of America Annual Meeting, 2009.
- **Crumrine, P.W.** Size-structured predator-prey interactions in a two-species system, Ecological Society of America Annual Meeting, 2008.
- *⁺Burgett, A.A., **Crumrine, P.W.**. Impacts of shared prey density and diversity on intraguild predation interactions. Ecological Society of America Annual Meeting, 2006.

- Zwick, M.*, +Simmons, A.M., +Leonard, J.K. and **Crumrine, P.W.**. Chronic exposure to endosulfan alters behavioral patterns in woodfrog (*Rana sylvatica*) tadpoles. Society for Neuroscience Annual Meeting, 2005.
- **Crumrine, P.W.** Impacts of size structure on intraguild predation in pond communities. North American Benthological Society Annual Meeting, 2005.
- *+Keeley, K., **P.W. Crumrine**, and +Barlow, P.F. Multiple contaminant and predatory stressors in pond communities. N. American Benthological Society Annual Meeting, 2005.
- ***Crumrine P.W.**, +Moubray, K.L., and +Forrester, J.T. The role of size and sex in cannibalism in larvae of the migratory dragonfly, *Anax junius*. North American Benthological Society Annual Meeting, 2001.
- **Crumrine P.W.** Behavioral interactions between intraguild predators. Animal Behavior Society Annual Meeting, 1999.
- ***Crumrine P.W.** and Swarth, C. The effects of tides on the feeding patterns of the mummichog (*Fundulus heteroclitus*) in a freshwater tidal wetland. Ecological Society of America Annual Meeting, 1998.

INVITED SEMINARS

- 2015, Stockton University, Department of Biology
- 2010, Rider University, Department of Geological, Environmental, and Marine Sciences
- 2007, The Richard Stockton College of New Jersey, Department of Biology
- 2005, Virginia Commonwealth University, Department of Biology
- 2005, Keynote Speaker 20th Anniversary of the Jug Bay Wetlands Sanctuary
- 2005, USDA NRCS, Training Seminar on Aquatic Ecosystem Restoration
- 2005, College of William and Mary, Department of Biology
- 2004 Virginia Tech, Department of Biology
- 2004 Old Dominion University, Department of Biological Sciences
- 2004 University of Maryland, Department of Entomology
- 2004 University of Toronto, Department of Zoology

GRANTS, HONORS, AND AWARDS

2016

- Principal Investigator, Rowan University - New Jersey Army National Guard Environmental Internship Program, New Jersey Department of Military and Veterans Affairs, funded, \$138,642
- Senior Personnel, REU Site: Ecology and Evolutionary Biology at the University of Virginia's Blandy Experimental Farm, National Science Foundation, \$482,915, decision pending
 - I wrote portions of the grant proposal

2015

- Principal Investigator, Rowan University - New Jersey Army National Guard Environmental Internship Program, New Jersey Department of Military and Veterans Affairs, funded, \$138,414

2014

- Principal Investigator, Rowan University - New Jersey Army National Guard Environmental Internship Program, New Jersey Department of Military and Veterans Affairs, funded, \$67,363

- Principal Investigator, Effects of Land-use Change on Freshwater Turtle Population and Community Structure, Rowan University Seed Grant, funded, \$7000
- Wall of Fame for Excellence in Advising, Rowan University

2012

- Principal Investigator, Chestnut Branch of Mantua Creek Restoration Project, submitted to Constellation Energy, 3/7/12, not funded. \$4941

2011

- Senior Personnel, Research Experience for Undergraduates (REU) site proposal for environmental biology at Blandy Experimental Farm - University of Virginia, National Science Foundation, funded
 - I wrote portions of the grant proposal

2010

- Principal Investigator, Undergraduate Research and Mentoring in the Biological Sciences (URM) - Rowan University Undergraduate Research and Mentoring in Biology, National Science Foundation, not funded. \$960,295
- Participant, Diagnostic Question Clusters to Improve Student Reasoning and Understanding in General Biology Courses, NSF CCLI grant to Charlene D'Avanzo, Hampshire College, \$1000

2009

- Junior Faculty Innovative Teaching Award, Rowan University
- Wall of Fame for Excellent Teaching, Rowan University
- Participant, Diagnostic Question Clusters to Improve Student Reasoning and Understanding in General Biology Courses, NSF CCLI grant to Charlene D'Avanzo, Hampshire College, \$1500

2008

- Co-PI, Research Opportunity Award - The role of biodiversity in reducing host trematode infections, National Science Foundation, \$13,084 (PI, Jason Rohr)
- Principal Investigator, Non Salary Financial Support Grant, Rowan University, funded, \$4400
- Participant, Diagnostic Question Clusters to Improve Student Reasoning and Understanding in General Biology Courses, NSF CCLI grant to Charlene D'Avanzo, Hampshire College, \$2500
- Senior Personnel, Major Research Instrumentation (MRI) Proposal: Acquisition of a matrix assisted laser desorption-ionization time of flight mass spectrometer for use in undergraduate chemistry, biochemistry, biology and engineering research and education. National Science Foundation, not funded. PI: Greg Caputo, Professor of Chemistry, Rowan University.
 - I wrote a portion of the grant proposal articulating how this instrument could be used by Rowan University Environmental Studies majors.

2007

- Senior Personnel, Research Experience for Undergraduates (REU) site proposal for environmental biology at Blandy Experimental Farm - University of Virginia, National Science Foundation, funded
 - I wrote portions of the grant proposal

- Co-PI, Development of a monitoring and assessment plan for small dam removal projects in southern New Jersey, Grant proposal submitted to the New Jersey Department of Environmental Protection, not funded, \$132,411

2005

- Senior Personnel, Research Experience for Undergraduates (REU) site proposal for environmental biology at Blandy Experimental Farm – Univ. of Virginia National Science Foundation, funded
 - I wrote portions of the grant proposal
- Faculty Development and Research Grant, Longwood University

2004

- Fund for Faculty-Student Research, Internships, and Public History, Longwood University

2003

- Best Student Talk, Aquatic Ecology Section, Ecological Society of America Annual Meeting

2002

- Doctoral Dissertation Improvement Grant, National Science Foundation
- Commonwealth Research Award, University of Kentucky

2001

- Ribble Enhancement Funds for Student Travel and Research, University of Kentucky
- Graduate Student Research Support, University of Kentucky

2000

- Presidential Fellowship, University of Kentucky
- Graduate Student Research Grant, Kentucky Society for Natural History
- Ribble Enhancement Funds for Student Travel, University of Kentucky
- Center for Ecology Evolution and Behavior, Student Research Support, University of Kentucky

1999

- First Place Ph. D. category, Student Paper Competition, Ohio Valley Entomological Association
- Ribble Graduate Fellowship, University of Kentucky
- Ribble Enhancement Funds for Student Research, University of Kentucky
- Graduate Student Research Support, University of Kentucky

UNDERGRADUATE STUDENTS MENTORED

- Matthew Gladfelter, Torey Hoeler, Kevin Lindert (9/2016-present), Kaitlin Barakat, Kristine Freiburger, and Victoria Scavette (9/2015 – 5/2015), Casey Kincaid, Conor Maguire, Kelsey Coia, Rachel Barton, and Lou DeStefano (9/2014 – 5/2015) and Kelsey Wright and Alissa Ambacher (9/2013-5/2014), Rowan University "Effects of land use change on population and community structure of aquatic turtles"
- Kyle Leathers, University of Virginia (2016 Summer REU Student) "Effects of an antihistamine and an insecticide on intraguild predation in aquatic insects"

- Anna Sheinaus, Hampshire College (2016 Summer REU Student) “Bugs under the influence: The impact of bupropion and hydroxyzine on cannibalism and behavior in aquatic insects”
- Marlana Glebocki, Monmouth University (2015 Summer REU Student) “Effects of antihistamine mixtures on cannibalism in larval *Anax junius*”
- Earyn McGee, Howard University (2015 Summer REU Student) “Exposure to low levels of a common antihistamine do not strongly influence predator-prey interactions in larval odonates”
 - Pursuing a MS in Natural Resources, University of Arizona
- Dan Gibson, Luther College (2014 Summer REU Student) "Safety in Diversification: Shared prey survival increases with predator size structure and species diversity"
 - Pursuing a MS in Entomology, Michigan State University
- Shannon Carter, Baylor University (2013 Summer REU Student) "Effects of habitat complexity on intraguild predation and cannibalism in an assemblage of size-structured predators"
 - Pursuing a PhD in Biology, Rice University
- Megan Grandinetti, Kutztown University (2012 Summer REU Student) "Does prey availability affect predator-prey interactions in an assemblage of size structured top predators?"
 - MS, Biology, Western Kentucky University
- Karis Norwood, Howard University (2012 Summer REU Student) "Effects of size structure on behavioral interactions between intraguild predators"
- Luis Oquendo-Diaz, University of Puerto Rico - Bayamon (2011 Summer REU Student) "How do body size variation among predators and the type of top predator affect the survival of prey in larval odonate communities?"
- Brittany Tawes, Rowan University (8/2010 – 5/2011) “Do behavioral interactions in species rich assemblages of larval odonates promote the survival of trematode cercariae?”
 - MS, Ecology and Evolutionary Biology, Iowa State University
- Sharon Blong, Rowan University (1/2010 – present) “Investigating common misconceptions about carbon cycling and climate change among environmental science students”
- Stephanie Kaweck, Loyola Marymount University (2010 Summer REU Student) “Effects of top predator identity and cannibalism on intraguild predation in larval odonates”
 - MS, Environmental Science, Loyola Marymount University
- Carl Stenoien, Gustavus Adolphus College (2010 Summer REU Student) “Larval odonate predation on free swimming cercariae: Effects of predator density, diversity & prey type”
 - Pursuing a Ph.D. in Ecology, University of Minnesota
- Rachel Anderson, The College of William and Mary (2009 Summer REU Student) “Impact of size differences among top predators on intraguild predation interactions”
 - Pursuing a Ph.D. in Ecology, UC Davis
- Chenchao Gao[^], Scott Hudzinski, Cindy Kong, Anjelica Sinigaglio, Jay Vigilante and Brian Yates*, Rowan University (8/2008-5/2010) “The role of biodiversity in reducing host trematode infections”
 - [^]Pursuing a Ph.D. in Pharmacology, Rutgers University, * MS, Biology, West Texas A&M University
- Cristina Cornell, University of Virginia (2008 Summer REU Student) “The effect of spatial scale and shared prey density on intraguild predation in aquatic invertebrates”
- Chris Middaugh, Lyon College (2008 Summer REU Student) “Impact of size structure on predator-prey interactions among larval odonates”
 - MS Fisheries, Purdue University, pursuing a PhD in Biology at Univ. of Arkansas

- Ryan Keweshan, Rowan University (8/2007 – 5/2008) “Effects of prey density on behavioral interactions between predators”
 - MS, Entomology, Iowa State University, now pursuing a Ph.D. in Biology, Utah State University
- Eileen Oni[^], Lisa DeGironimo, Rowan University (1/2007 – 5/2008), “Impacts of dams on aquatic invertebrate community structure in coastal plain streams”
 - Ph.D., Biology, Rutgers University
- Missy Rynerson, University of Minnesota, Morris (2007 Summer REU Student) “Effects of prey density on behavioral interactions between predators”
 - Tom Callahan Award for excellence in undergraduate research during REU program
 - MS, Entomology, Iowa State University
- Kristin Totten, Indiana University (2007 Summer REU Student) “Intraspecific interactions in adult dragonflies”
 - MS, Environmental Policy, University of Chicago
- Andrew Miller, Ursinus College (2006 Summer REU Student) “Impacts of larval odonates and pesticides on the survival of trematode cercariae”
 - MS, Ecology, SUNY ESF; MS in Environmental Systems, UMBC, now pursuing a Ph.D. in Fisheries, Oklahoma State University
- Amanda Crossett, Longwood University (11/04 – 05/06), “Effects of introduced trout on aquatic invertebrate communities and ecosystem processes”
- Kyle Griffin, Longwood University, Undergraduate Research Assistant, Summer 2005
- Amber Burgett, Denison University (2005 Summer REU Student) “Impacts of multiple shared prey species on intraguild predation interactions”
 - Ph.D., Biology, Washington University in St. Louis
 - Assistant Professor of Biology, Wittenberg University
- Aquil Meeks, Howard University (2005 Summer REU Student) “The impact of mate availability and food level on mating interactions in the fishing spider (*Dolomedes triton*)”
- Angela Owens, Longwood University (11/04 – 05/05), “Effects of trout stocking regimes on community structure in streams”
- Charles J. Wilkerson, Longwood University (1/04 – 5/04), “Indirect effects in pond communities exposed to pesticides”
- Keefe Keeley, Swarthmore College (2004 Summer REU Student), "Multiple stressors in a simplified freshwater pond ecosystem"
 - Tom Callahan Award for excellence in undergraduate research during REU program
 - Pursuing a MS in Agroecology, University of Wisconsin-Madison
- Paige Barlow, University of Richmond (2004 Summer REU Student), "Predator prey interactions between dragonfly larvae and snails"
 - M.S. Fisheries Biology, Virginia Tech
 - Ph.D. in Wildlife Ecology at University of Georgia
 - Assistant Professor of Biology, University of Alabama
- Cheryl Edge, University of Kentucky (8/02 – 5/03), “The conservation status of Odonata in the United States”
 - MS, Natural Resource Sciences, University of Maryland

- Andrew Katen, University of Kentucky (4/02 – 8/02), “The effects of top predator population size structure on intraguild predation interactions in odonate larvae”
 - MS, Southwest Missouri State University
- Joe Forester, University of Kentucky (12/00 – 6/01), “Effects of relative and absolute size differences on cannibalism in *Anax junius* larvae”
- Kara Moubray, University of Kentucky (1/00 – 12/00), “Modulation of larval *Anax junius* behavior by predatory and chemical stimuli”
 - First place undergraduate category, Student Paper Competition Ohio Valley Entomological Association (2000)
 - Oral Presentation, National Conference for Undergraduate Research (2001)

PROFESSIONAL SERVICE

- Mentor: NJ DEP/Americorps Watershed Ambassadors Program, 2017
- Doctoral Committee Member for Peggy Preusch, Ph.D. Candidate, Department of Curriculum and Instruction, University of Maryland – College Park.
- Panelist, National Science Foundation Directorate for Biological Sciences, Ecological Biology Cluster, 2006, 2009, 2014
- Ad-hoc Grant Reviewer, National Science Foundation Directorate for Biological Sciences, Population & Evolutionary Processes and Ecological Biology Clusters (5 grants total)
- Panelist, U.S. EPA Science to Achieve Results (STAR) Program, 2005
- Ad-hoc Grant Reviewer, Binational Agricultural Research & Development Fund, United States – Israel, Department of Defense
- Reviewer of Species Assessments for Threatened Odonates, Society for Conservation Biology and US Fish and Wildlife Service
- Manuscript reviewer: American Naturalist, Animal Behavior, Aquatic Ecology, Archiv fuer Hydrobiologie, Behavioral Ecology, Ecological Applications, Ecological Entomology, Ecological Monographs, Ecology, Ecosphere, Ethology, Evolutionary Ecology, Freshwater Biology, Hydrobiologia, International Journal of Odonatology, Journal of Animal Ecology, Journal of Toxicology and Environmental Health, Journal of Zoology, Insect Conservation and Diversity, International Journal of Ecology, Oecologia, Oikos, PLOS One, Proceedings of the Royal Society B: Biological Sciences, and Research Letters in Ecology.
- Student Awards Judge, 2006-2009 Annual Meetings of the Ecological Society of America
- Co-coordinator and moderator for an Organized Oral Session titled “Ecological consequences of size-structured interactions”, 2007 Annual Meeting of the Ecological Society of America

UNIVERSITY SERVICE

Rowan University

- Faculty Senate Representative for Department of Geography and Environment (2011-present)
- Assessment Coordinator, Department of Geography and Environment (2011-present)
- Member or Chair of 8 Faculty Search Committees, Department of Geography and Environment (2011, 2012, 2015, 2016, 2017)
- Member, Campus Aesthetics and Environmental Concerns Committee (2007 – present)
- Chairperson, Elections Committee, Department of Biological Sciences (2006 – 2012)

- Department of Biological Sciences faculty representative to the Rowan University Library (2006 – 2011)
- Coordinator: Department of Biological Sciences Seminar Series (2008 – 2012)

Longwood University

- Coordinator: Department of Natural Sciences Seminar Series
- University Faculty Development and Research Committee
- Department of Natural Sciences Awards Committee
- Biological and Environmental Sciences Chair Search Committee (chair of committee)

OUTREACH ACTIVITIES

- Judge, Coriell Institute Science Fair (2008)
- Advisor/Head Coach, Longwood University Club Soccer Team (2004-2006)
- Judge, Kentucky Science and Engineering Fair, (2003)
- Grand Awards Judge, Intel International Science and Engineering Fair, (2002)
- Ecology and environmental science presentations at K-12 schools (1999-present)
- SUNY Plattsburgh – designer and webmaster: Graduate Resources Web Page (1998)

PROFESSIONAL DEVELOPMENT

- Participant, Diagnostic Question Clusters Workshops, 2008-2010 Ecological Society of America Annual Meetings
- Participant, 2007 Council on Undergraduate Research Dialogues Workshop
- North American Benthological Society Odonate Workshop, 2002
- American Fisheries Society Statistics Workshop, 1997

PROFESSIONAL MEMBERSHIPS

- Ecological Society of America
 - Education Section
 - Aquatic Ecology Section
 - Mid-Atlantic Section
- Society for Freshwater Science (formerly North American Benthological Society)
- Association for Environmental Studies and Sciences