

## CURRICULUM VITAE

### Emily S. Bernhardt

James B. Duke Professor  
Department of Biology  
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### EDUCATION:

1996, B.S., Biology, minor in Chemistry, University of North Carolina, Chapel Hill, NC  
2001, Ph.D., Ecology and Evolutionary Biology, Cornell University, Ithaca, NY

### RESEARCH INTERESTS:

Effects of global environmental change (urbanization, N deposition, rising CO<sub>2</sub>, land use change, chemical pollution) on watershed biogeochemistry and aquatic ecosystems; the capacity for human intervention to mitigate or minimize these impacts; and the coupled biogeochemical cycling of elements (especially C, N, P, S, O, Fe, Se, Ag, Au) within ecosystems.

### RESEARCH AND PROFESSIONAL EXPERIENCE / AFFILIATIONS:

2020-2023, Chair, Department of Biology, Duke University  
2019-present, James B. Duke Distinguished Chair, Department of Biology Duke University  
2016-present, Professor, Department of Biology, Duke University  
2010-2016, Associate Professor, Department of Biology, Duke University  
2004-2010, Assistant Professor, Department of Biology, Duke University  
2005-Present, Secondary Appointment, Division of Environmental Science & Policy, Nicholas School of the Environment, Duke University  
2002-2004 Postdoctoral Fellow, Department of Entomology, University of Maryland, College Park  
2001-2002 Postdoctoral Fellow, Nicholas School of the Environment, Duke University

### HONORS AND AWARDS:

2020 Fellow, Society for Freshwater Science  
2020,2021 ISI Highly Cited Researcher, Ecology and Environmental Science  
2018 Fellow, Ecological Society of America  
2017 Bass Society Fellow, Duke University  
2015 Mercer Award for best paper by scientists under 40 by the Ecological Society of America together with *Marcelo Ardón (lead author), Jennifer Morse and Ben Colman*  
2015 Friedrich Wilhelm Bessel Award, Alexander von Humboldt Foundation, Germany  
2015 Leopold Leadership Fellow  
2014 Textbook Excellence Award, Text and Academic Authors Association for Biogeochemistry: an analysis of Global Change, 3<sup>rd</sup>, ed. with *William H. Schlesinger*  
2014 International IGB Fellowship in Freshwater Sciences, Leibniz-Institute for Freshwater Ecology and Inland Fisheries, Berlin, Germany  
2013 Yentsch-Schindler Early Career Award, Association for the Sciences of Limnology and Oceanography  
2010 Thomas Langford Lectureship, Duke University  
2008 Outstanding Postdoctoral Mentor Award, Duke University Postdoctoral Association

2005 NSF CAREER Award for New Investigators

2004 H.G. Hynes Award for New Investigators from the Society for Freshwater Science

### **CURRENT MAJOR PROFESSIONAL SERVICE COMMITMENTS**

- Board Member, International Panel on Chemical Pollution, <https://www.ipcp.ch/>
- Jury Chair, BBVA Frontiers of Knowledge Award in Ecology & Conservation Biology (2017, 2018, 2019, 2020, 2021)
- Board of Directors, and Chair of Science Advisory Committee, Cary Institute of Ecosystem Studies, Millbrook NY (2018-present)
- Member, Science and Technical Advisory Committee (STEAC) for the National Ecological Observatory Network (2019-present)

### **PRIOR MAJOR SERVICE COMMITMENTS**

- Member of the Science Advisory Board (SAB) Panel for the Review of the EPA Water Body Connectivity Report Science Advisory Board (2013-2014)
- Member of National Academy of Sciences Committee on Challenges and Opportunities in the Hydrologic Sciences (2010-2011)
- Board Member, Environmental Defense Southeast
- Editorial Board Member: JGR Biogeosciences (2010-2015); Science Advances (2016-2020); Limnology and Oceanography (2015-2020)
- Member of the NSF funded Frontiers in Ecosystem Science working group (2012-2014)
- Association for the Sciences of Limnology and Oceanography: Nominating Committee (2013-2015); Early Career Yentsch-Schindler Award Committee (2013-2015)
- Ecological Society of America: Visions Committee (2002-2003); Publications Committee (2003-2014); Secretary of the ESA Biogeosciences Section (2006-2008)
- Society for Freshwater Science: President (2017-2018); Executive Committee (2002-2004, 2016-2019); Distinguished Service Award committee (2008-2009); Hynes Award Committee (2010-2011); Annual Meeting Organizing Committee (2020-2021)
- Biogeochemistry Panel for evaluation of the Consortium of Universities for Advancement of Hydrologic Science, Incorporated (CUASHI) Hydrological Measurement Facility (2005-2006)
- Expert Witness on the topic of the environmental impacts of mountaintop removal coal mining in two federal district court trials and a state water quality board hearing working with EarthJustice and Appalachian Mountain Advocates.
- Expert Witness on the topic of the environmental impacts of hydropower dams and the efficacy of river restoration working with Southern Environmental Law Center.

### **PROFESSIONAL MEMBERSHIPS:**

- Ecological Society of America (ESA)
- Society for Freshwater Science (SFS)
- American Geophysical Union (AGU)
- Association for the Sciences of Limnology and Oceanography (ASLO)