

## **David C. Richardson**

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### **Positions held**

2023 – present Director Biochemistry program, SUNY New Paltz, New Paltz, NY  
2020 – present Professor, Biology Department, SUNY New Paltz, New Paltz, NY  
2016 – 2020 Associate Professor, Biology Department, SUNY New Paltz, New Paltz, NY  
2010 – 2015 Assistant Professor, Biology Department, SUNY New Paltz, New Paltz, NY  
2008 – 2009 Postdoctoral scientist, Cary Institute of Ecosystem Studies, Millbrook, NY  
2008 May – September Postdoctoral scientist, Stroud Water Research Center, Avondale, PA

### **Appointments**

2022 – present Adjunct Faculty, University of Missouri, Columbia, MO  
2010 – present Visiting Scientist, Cary Institute of Ecosystem Studies, Millbrook, NY  
2012 – present Research Associate, Mohonk Preserve, New Paltz, NY  
2009 – 2010 Visiting Scholar, Dept. of Biological Sciences, Dartmouth College, Hanover, NH

### **Education**

2008 Ph.D. in Stream Ecology. Marine, Estuarine, and Environmental Sciences (MEES),  
University of Maryland, College Park, MD.  
*Research advisors:* Dr. Margaret Palmer, Dr. Louis Kaplan  
*Dissertation title:* Transport, sources, and quality of seston in a Piedmont headwater stream.

2002 B.S. in Operations Research and Industrial Engineering.  
Cornell University, College of Engineering, Ithaca, NY.

### **Training**

2009 – 2010 Faculty Institutes for Reforming Science Teaching (FIRST IV). FIRST (funded by the National Science Foundation) is a national dissemination project designed to reform undergraduate science education through professional development of postdocs and to focus on learner-centered classrooms. <https://www.msu.edu/~first4/>

2009 CUAHSI (Consortium of Universities for the Advancement of Hydrologic Sciences) Optical Sensor Workshop. University of Vermont, Burlington, VT.

2004 Fundamentals of Ecosystem Ecology short course, Cary Institute of Ecosystem Studies, Millbrook, NY.

2002 – 2005 Ecological Circuitry Collaboratory (ECC) – National Science Foundation sponsored program to "close the circuit" between empiricists and modelers by training a group of young scientists to recognize themselves as both.

### **Manuscripts in preparation or in review**

(\* indicates current or former undergraduate research student, = indicates co-first author)

- In prep.* Wander HL\*, Doubek JP, Stockwell JD, *Richardson DC*. Presence of zooplanktivorous fish favors smaller zooplankton dominance and deeper daytime vertical distribution. Aimed submission: *Northeastern Naturalist*
- In prep.* Oleksy IA and *Richardson DC*. Changing ice seasons and phenology affects under-ice lake thermal dynamics. *Geophysical Research Letters*.
- In review* Rabaey JS, Holgerson MA, *Richardson DC*, Andersen MR, Bansal S, Bortolotti LE, Cotner JB, Hornbach DJ, Johnson OF, Martinsen KT, Moody EK. Freshwater biogeochemical hotspots: High production and respiration rates in shallow waterbodies.
- In review* Howard DE, Brentrup JA, *Richardson DC*, Lewis ASL, Olsson FE, Carey CC. Variability in ice cover does not affect annual metabolism estimates in a small eutrophic reservoir. *Journal of Geophysical Research: Biogeosciences*.

### **Publications**

(\* indicates current or former undergraduate research student, = indicates co-first author)

- Accepted* *Richardson DC*=, Filazzola A=, Woolway RI, Imrit MA, Bouffard D, Weyhenmeyer GA, Magnuson J, Sharma S. Non-linear responses in interannual variability of lake ice with climate change. *Limnology and Oceanography*.
- 2023 Ray NE, Holgerson MA, Andersen MR, Bikse J, Bortolotti LE, Futter M, Kokorite I, Law A, McDonald C, Mesman JP, Peacock M, *Richardson DC*, Arsenault J, Bansal S, Cawley K, Finlay K, Kuhn M, Shahabinia AR. Spatial and temporal variability in greenhouse gases in shallow lakes and ponds. *Limnology and Oceanography* 68(7): 1530-1545. <https://doi.org/10.1002/lno.12362>
- 2023 Volponi SN\*, Wander HL\*, *Richardson DC*, Williams CJ, Bruesewitz DA, Arnott S, Brentrup JA, Edwards HL, Ewing HA, Holeck K, Johnson L, Kim BS, Morales-Williams AN, Nadkarni N, Norman BC, Parmalee L, Shultis A, Tracy A, Ward NK, Weathers KC, Wigdahl-Perry CR, Yokota K. Nutrient function over form: Organic and inorganic nitrogen additions have similar effects on lake phytoplankton nutrient limitation. *Limnology and Oceanography* 68(2):307-321. <https://doi.org/10.1002/lno.12270>
- 2022 Holgerson MA, *Richardson DC*, Roith J, Bortolotti LE, Finlay K, Hornbach D, Barnhart A, Gurung K, Ness A, Andersen MR, Bansal S, Finlay JC, Cianci-Gaskill JA, Hahn S, Janke BD, McDonald C, Mesman JP, North RL, Roberts CO\*, Sweetman JN, Webb JR. Classifying Mixing Regimes in Ponds and Shallow Lakes. *Water Resources Research* 58, e2022WR032522. <https://doi.org/10.1029/2022WR032522>
- 2022 *Richardson DC*=, Holgerson MA=, Farragher MJ, Hoffman KK, King KBS, Alfonso MB, Andersen MR, Cheruveil KS, Coleman KA, Farruggia MJ, Fernandez RL, Hondula KL, Moreira GL, Paul K, Peierls BL, Rabaey JS, Sadro S, Sánchez ML, Smyth RL, Sweetman JN. A functional definition to distinguish ponds from lakes and wetlands. *Scientific Reports* 12:10472 <https://doi.org/10.1038/s41598-022-14569-0>
- 2022 Sharma S, Filazzola A, Nguyen T, Imrit M, Blagrove K, Bouffard D, Daly J, Feldman H, Feldsine N, Hendricks-Franssen HJ, Granin N, Hecock R, Henning L'Abée-Lund J, Hopkins E, Howk N, Iacono M, Knoll L, Korhonen J, Malmquist H, Marszelewski W, Matsuzaki SI, Miyabara Y, Miyasaka K, Mills A, Olson L, Peters T, *Richardson DC*, Robertson D, Rudstam L, Wain D, Waterfield H, Weyhenmeyer G, Wiltse B, Yao H, Zhdanov A, and Magnuson J. Long-term ice phenology records spanning up to 578 years for 78 lakes around the Northern Hemisphere. *Scientific Data* 9, 318 (2022). <https://doi.org/10.1038/s41597-022-01391-6>

- 2022 Ward NK, Brentrup JA, *Richardson DC*, Weathers KC, Hanson PC, Hewett R, Carey CC. Inflow stream dynamics affect spatial variability in oligotrophic lake ecosystem metabolism. *Aquatic Sciences* 84(3): 1-19.
- 2021 Sharma S=, *Richardson DC*=, Woolway RI=, Imrit MA, Bouffard D, Kevin Blaggrave K, Daly J, Filazzola A, Granin N, Korhonen J, Magnuson J, Marszelewski W, Matsuzaki SIS, Perry W, Robertson DM, Rudstam LG, Weyhenmeyer GA, Yao H. Loss of Ice Cover, Shifting Phenology, and More Extreme Events in Northern Hemisphere Lakes. *Journal of Geophysical Research: Biogeosciences*. <https://doi.org/10.1029/2021JG006348>
- 2021 Pilla R, Mette EM, Williamson C, Adamovich B, Adrian R, Anneville O, Balseiro E, Ba S, Chandra S, Colom-Montero W, Devlin S, Dix M, Dokulil M, Feldsine N, Feuchtmayr H, Fogarty NK, Gaiser E, Girdner S, Gonzalez MJ, Hambright K, Hamilton D, Havens K, Hessen D, Hetzenauer H, Higgins S, Huttula T, Huuskonen H, Isles P, Joehnk K, Keller W, Klug J, Knoll L, Korhonen J, Korovchinsky NM, Koster O, Kraemer B, Leavitt P, Leoni B, Lepori F, Lepskaya EV, Lottig N, Luger M, Maberly S, MacIntyre S, McBride C, MacIntyre P, Melles S, Modenutt B, Müller-Navarra D, Pacholski L, Paterson AM, Pierson D, Pislegina HV, Plisnier PD, *Richardson DC*, Rimmer A, Rogora M, Rogozin DY, Rusak J, Rusanovskaya OO, Sadro S, Salmaso N, Saros J, Sarvala J, Saulnier-Talbot E, Schindler D, Shimaraeva S, Silow E, Sitoki L, Sommaruga R, Straile D, Strock K, Swain H, Tallant JM, Thiery W, Timofeyev M, Tolomeev AP, Tominaga K, Vanni MJ, Verburg P, Vinebrooke R, Wanzenbock J, Weathers KC, Weyhenmeyer G, Zadereev E, Zhukova TV. Global data set of long-term summertime vertical temperature profiles in 153 lakes. *Nature Scientific Data* 8, 200. <https://doi.org/10.1038/s41597-021-00983-y>
- 2021 Kraemer BM, Pilla RM, Woolway RI, Anneville O, Ban S, Colom-Montero W, Devlin SP, Dokulil MT, Gaiser EE, Hambright KD, Hessen DO, Higgins SN, Jöhnk KD, Keller W, Knoll LB, Leavitt PR, Lepori F, Martin S. MS, Maberly SC, Müller-Navarra DC, Paterson AA, Pierson DC, *Richardson DC*, Rogora M, Rusak JA, Sadro S, Salmaso N, Schmid M, Silow EA, Sommaruga R, Stelzer JAA, Straile D, Thiery W, Verburg P, Weyhenmeyer GA, Adrian R. Climate change drives widespread shifts in lake thermal habitat. *Nature Climate Change* 11, 521–529. <https://doi.org/10.1038/s41558-021-01060-3>
- 2021 Oleksy IA\* and *Richardson DC*. Climate change and teleconnections amplify lake stratification with differential local controls of surface water warming and deep water cooling. *Geophysical Research Letters* <https://doi.org/10.1029/2020GL090959>
- 2020 Brentrup JA, *Richardson DC*, Carey CC, Ward NK, Bruesewitz DA, Weathers KC. Under-ice respiration rates shift the annual carbon cycle in the mixed layer of an oligotrophic lake from autotrophy to heterotrophy. *Inland Waters*. DOI: [10.1080/20442041.2020.1805261](https://doi.org/10.1080/20442041.2020.1805261)
- 2020 Pilla R, Williamson C, Adamovich B, Adrian R, Anneville O, Chandra S, Colom-Montero W, Devlin S, Dix M, Dokulil M, Gaiser E, Girdner S, Hambright K, Hamilton D, Havens K, Hessen D, Higgins S, Huttula T, Huuskonen H, Isles P, Joehnk K, Jones I, Keller W, Knoll L, Korhonen J, Kraemer B, Leavitt P, Lepori F, Luger M, Maberly S, Melack J, Melles S, Müller-Navarra D, Pierson D, Pislegina, Plisnier PD, *Richardson DC*, Rimmer A, Rogora M, Rusak J, Sadro S, Salmaso N, Saros J, Saulnier-Talbot E, Schindler D, Schmid M, Shimaraeva S, Silow E, Sitoki L, Sommaruga R, Straile D, Strock K, Thiery W, Timofeyev M, Verburg P, Vinebrooke R, Weyhenmeyer G, Zadereev E. Deeper waters are changing less consistently than surface waters in a global analysis of 102 lakes. *Scientific Reports* 10, 20514. <https://doi.org/10.1038/s41598-020-76873-x>
- 2020 Lewis ASL\*, Kim BS\*, Edwards HL\*, Wander HL\*, Garfield CM\*, Murphy HE\*, Poulin

- ND\*, Princiotta SD, Rose KC, Taylor AE\*, Weathers KC, Wigdahl-Perry CR, Yokota K, *Richardson DC*, Bruesewitz DA. Prevalence of nitrogen and phosphorus colimitation of freshwater phytoplankton explained by nitrogen deposition and lake characteristics across northeastern United States. *Inland Waters*. doi:10.1080/20442041.2019.1664233
- 2019 *Richardson DC*, Bruno EC\*, Edwards HL\*, Green DM\*, Hollander AJ\*, McFadden SR\*, Reid KA\*, Wander HL\*. Serial introductions modify a trophic cascade, partially mitigating changes in lake ecosystem structure. *Freshwater Science* 38(3):642-653 DOI: 10.1086/704995.
- 2018 *Richardson DC*, Charifson DM\*, Davis BA\*, Farragher MJ\*, Krebs BS\*, Long EC, Napoli M, Wilcove BA\*. Watershed management and underlying geology in three lakes control divergent responses to decreasing acid precipitation. *Inland Waters* 8(1):70-81 doi: 10.1080/20442041.2018.1428428
- 2017 O'Reilly CM, Darner Gougis R, Klug JL, Carey CC, *Richardson DC*, Bader NE, Soule DC, Castendyk D, Meixner T, Stromberg J, Weathers KC, Hunter W. Using large datasets for open-ended inquiry activities in undergraduate science classrooms. *Bioscience* 67(12): 1052-1061.
- 2017 *Richardson DC*, Melles SJ, Pilla RM, Hetherington AL, Knoll LB, Williamson CE, Kraemer BM, Jackson JR, Long, EC, Moore K, Rudstam LG, Rusak JA, Saros JE, Sharma S, Strock KE, Weathers KC, Wigdahl-Perry CR. Transparency, geomorphology, and mixing regime explain variability in trends in lake temperature and stratification across northeastern North America (1975 - 2014). *Water* 9(6): 442 doi:10.3390/w9060442
- 2017 Klug JK, Carey CC, *Richardson DC*, Darner Gougis R. Integrating high-frequency and long-term data analyses into undergraduate ecology classes improves quantitative literacy. *Ecosphere* 8(3):e01733 DOI: [10.1002/ecs2.1733](https://doi.org/10.1002/ecs2.1733)
- 2016 *Richardson DC*, Carey CC, Bruesewitz DA, Weathers KC. Intra- and inter-annual variability in metabolism in an oligotrophic lake. *Aquatic Sciences* 79(2): 319-333 DOI:10.1007/s00027-016-0499-7
- 2016 *Richardson DC*, Charifson DM\*, Stern EM\*, Stanson VJ\*, Thompson JE, Townley LA. Reconstructing a trophic cascade following unintentional introduction of golden shiner to Lake Minnewaska, New York, USA. *Inland Waters* 6(1): 29-33.
- 2015 Charifson DM\*, Huth P, Thompson JE, Angyal RK, Flaherty MJ, *Richardson DC*. History of Fish Presence and Absence Following Lake Acidification and Recovery in Lake Minnewaska, Shawangunk Ridge, NY. *Northeastern Naturalist* 22(4): 762-781.
- 2015 Carey CC, Gougis RD, Klug JL, O'Reilly CM, *Richardson DC*. A model for using environmental data-driven inquiry and exploration to teach limnology to undergraduates. *Limnology and Oceanography Bulletin* 24(2): 32-35.
- 2015 Bruesewitz DA, Carey CC, *Richardson DC*, Weathers KC. Under-ice thermal stratification dynamics of a large, deep lake revealed by high-frequency data. *Limnology and Oceanography* 60(2): 347-359.
- 2014 *Richardson DC*, Oleksy IA\*, Hollein TH, Arscott DB, Gibson C, Root S\*. Habitat characteristics, temporal variability, and macroinvertebrate communities associated with a mat-forming nuisance diatom (*Didymosphenia geminata*) in Catskill mountain streams, New York. *Aquatic Sciences* 76:553-564.

- 2013 Hoellein TH, Bruesewitz DA, *Richardson DC*. Revisiting Odum (1956): A synthesis of ecosystem metabolism reveals drivers of primary production and respiration across streams, lakes, wetlands, and estuaries. *Limnology and Oceanography* 58(6): 2089-2100.
- 2013 *Richardson DC*, Newbold JD, Aufdenkampe AK, Taylor PG and Kaplan LA. A method for measuring bacterial mineralization rates of suspended particulate organic carbon in stream ecosystems. *Limnology and Oceanography Methods* 11: 257-261.
- 2013 Solomon CT, Bruesewitz DA, *Richardson DC*, et al. Ecosystem respiration: Drivers of daily variability and background respiration in lakes around the globe. *Limnology and Oceanography* 58(3): 849-866.
- 2012 Klug JL, *Richardson DC*, Ewing HA, Hargreaves BR, Samal NR, Vachon D, Pierson DC, Lindsey AM, O'Donnell DM, Effler SW, Weathers KC. Ecosystem effects of a tropical cyclone on a network of lakes in northeastern North America. *Environmental Science and Technology* 46(21):11693-11901. DOI:10.1021/es302063v
- 2010 Pace ML, Hampton SE, Limburg KE, Bennett EM, Cook EM, Davis AE, Grove JM, Kaneshiro KY, LaDeau SL, Likens GE, McKnight DM, *Richardson DC*, and Strayer DL. Communicating with the public: opportunities and rewards for individual ecologists. *Frontiers in Ecology and the Environment* 8(6):292-298.
- 2009 Palmer MA and *Richardson DC*. Provisioning services: a focus on freshwater. In *The Princeton Guide to Ecology*, Levin, SA, Ed. Princeton University Press: Princeton, NJ.
- 2009 *Richardson DC*, Kaplan LA, Newbold JD and Aufdenkampe AK. Temporal dynamics of seston: A recurring nighttime peak and seasonal shifts in composition in a stream ecosystem. *Limnology and Oceanography* 54(1):344-354.
- 2008 Menninger HL, Palmer MA, Craig LS, and *Richardson DC*. Periodical cicada detritus impacts stream ecosystem function. *Ecosystems* 11(8):1306-1317.
- 2008 Craig LS, Palmer MA, *Richardson DC*, et al. Stream restoration strategies for reducing river nitrogen loads. *Frontiers in Ecology and the Environment* 6(10):529-538.
- 2008 Swan CM, Healey B and *Richardson DC*. The role of native riparian tree species in decomposition of invasive Tree of Heaven (*Ailanthus altissima*) leaf litter in an urban stream. *Ecoscience* 15(1):27-35.

**Non-peer reviewed publications** (\* indicates undergraduate student)

- 2023 Jones, JR, RL North, A Argerich, AP Thorpe, DV Obrecht, A Price, K Santamaria, and *DC Richardson*. 2023. Missouri reservoir profile data including temperature, depth, and oxygen profiles (1989-current) ver 1. Environmental Data Initiative. <https://doi.org/10.6073/pasta/34d23adf277b07346a35fb8cdc984cc7> (Accessed 2023-12-18).
- 2022 *Richardson, DC*, MA Holgerson, MJ Farragher, KK Hoffman, KB King, MB Alfonso, MR Andersen, KS Cheruveil, KA Coleman, MJ Farruggia, RL Fernandez, KL Hondula, GA Lopez Moreira M, KE Paul, BL Peierls, JS Rabaey, S Sadro, ML Sanchez, RL Smyth, and JN Sweetman. 2022. Pond data: physical, chemical, and biological characteristics with scientific and United States of America state definitions from literature and legislative surveys ver 1. Environmental Data Initiative. <https://doi.org/10.6073/pasta/ec507ac70846b17d0633d95aa3c680c6> (Accessed 2022-04-04).

- 2022 Ward, NK, JA Brentrup, *DC Richardson*, and CC Carey. 2022. Lake ecosystem metabolism estimates from 3 locations in Lake Sunapee, NH, USA during the summer stratified period from June to September 2018 ver 1. Environmental Data Initiative. <https://doi.org/10.6073/pasta/c54eeb67934e3c2576fcec4402767747> (Accessed 2022-02-21).
- 2021 Sharma, S, *Richardson DC*, and Woolway RI. 2021. Our lakes are losing their ice cover faster than ever — here’s what that means for us. The Conversation. <https://theconversation.com/our-lakes-are-losing-their-ice-cover-faster-than-ever-heres-what-that-means-for-us-173471>
- 2020 Wander, HL, Lewis AS, Edwards HL, and *Richardson DC*. 2020. Zooplankton density and size data in Lake Awosting, Lake Minnewaska, and Mohonk Lake, NY, USA 2013-2018 ver 1. Environmental Data Initiative. <https://doi.org/10.6073/pasta/befde8268750ff108b59d8198eb989a1> (Accessed 2020-06-02).
- 2020 *Richardson DC*, Carey CC, Weathers KC, Bruesewitz DA, LSPA, Steele BG. 2020. High Frequency Meteorological, Drift-Corrected Dissolved Oxygen, and Thermistor Temperature Data - Lake Sunapee Buoy, NH, USA, 2007 – 2013. Environmental Data Initiative. <https://portal.edirepository.org/nis/mapbrowse?packageid=edi.463.1> Dataset accessed 1/29/2020.
- 2019 Klug JL, *DC Richardson*, HA Ewing, BR Hargreaves, NR Samal, D Vachon, DC Pierson, BG Steele, DM O'Donnell, SW Effler, PA del Giorgio, KC Weathers. 2019. High-frequency water temperature and dissolved oxygen data and derived stability and metabolism metrics for nine lakes in northeastern North America for months before and after Tropical Cyclone Irene, Fall 2011. Environmental Data Initiative. <https://doi.org/10.6073/pasta/7684d5140f6ef95b97763c6ba50d208b>
- 2018 Mohonk Preserve, C Belardo, N Feldsine, A Forester, P Huth, E Long, V Morgan, M. Napoli, E. Pierce, *D Richardson*, D. Smiley, S. Smiley, J. Thompson. 2018. History of Acid Precipitation on the Shawangunk Ridge: Mohonk Preserve Precipitation Depths and pH, 1976 to Present. Environmental Data Initiative. <https://doi.org/10.6073/pasta/734ea90749e78613452eacec489f419c>
- 2017 *Richardson, DC*. 2017. Global Climate Change and the Shawangunk Ridge. Friends of the Shawangunks: Shawangunks Watch Winter 2017 issue.
- 2017 O'Reilly CM, *DC Richardson*, and RD Gougis. 15 March 2017. Project EDDIE: Climate Change. Project EDDIE Module 8, Version 1. [https://serc.carleton.edu/eddie/enviro\\_data/activities/climate\\_change.html](https://serc.carleton.edu/eddie/enviro_data/activities/climate_change.html).
- 2015 *Richardson DC*, JL Klug, and CC Carey. 26 Jun 2015. Project EDDIE: Lake Metabolism. Project EDDIE Module 2, Version 1. <http://cemast.illinoisstate.edu/data-for-students/modules/lake-metabolism.shtml>.
- 2015 Carey CC, JL Klug, and *DC Richardson*. 1 April 2015. Project EDDIE: Lake Ice Phenology. Project EDDIE Module 1, Version 1. <http://cemast.illinoisstate.edu/data-for-students/modules/ice-phenology.shtml>.
- 2014 *Richardson DC*. 2014. The continually changing Lake Minnewaska. Friends of the Shawangunks: Shawangunks Watch Fall 2014 issue.

- 2013 *Richardson DC*. 2013. Changes in acidity and fish in the sky lakes: Why is Lake Minnewaska turning green? Friends of the Shawangunks: Shawangunks Watch Summer 2013 issue.
- 2010 Root SM\* and *Richardson DC*. 2010. Rock snot growing in New York rivers. Poughkeepsie Journal. 12 Sep. 2010: 3F. Print.
- 2010 *Richardson DC* and Dorsi JJ\*. 2010. Ice-out records track climate change. Poughkeepsie Journal. 11 Apr. 2010: 3F-4F. Print.

### **Awards and funding**

- 2023 – 2028 Collaborative Research: MRA: On thin ice- implications of shorter winters for the future of freshwater phytoplankton phenology and function. National Science Foundation Macrosystems Biology & NEON-Enabled Science, NSF Division of Environmental Biology #DEB-2306894/5/6/7/8. Collaborative Proposal with Dr. Rebecca North (University of Missouri), Dr. Mindy Morales (University of Vermont), Dr. Meredith Holgerson (Cornell University), and Dr. Isabella Oleksy (University of Colorado Boulder).
- 2023 – 2024 Research Opportunity Award (ROA) to CAREER: Why are ponds biogeochemical hotspots? Examining how ecosystem structure and function scale with waterbody size: Supplement Request for NSF Division of Environmental Biology #2143449, Supplement to award to Dr. Meredith Holgerson, Cornell University in collaboration with Dr. Richardson
- 2022 Contract with Cary Institute of Ecosystem Studies for Collaborative Proposal: MSB-ENSA: The Near-term Ecological Forecasting Initiative, NSF #1638575
- 2022 Summer Undergraduate Research Experience (SURE) Award. Vertical distribution and diel vertical migration of zooplankton in regional lakes. New Paltz undergraduate student, Paloma Estess. SUNY New Paltz Research, Scholarship and Creative Activities (RSCA) program.
- 2022 AC<sup>2</sup> SUNY New Paltz Summer Research Program (SRP). Near-term ecological forecasting of lake ecology. Funded by National Science Foundation Louis Stokes Alliance for Minority Participation (AMP) and New York State Education Department CSTEP (Collegiate Science and Technology Entry Program) through SUNY New Paltz
- 2021 Summer Undergraduate Research Experience (SURE) Award. Pond ecosystem function across 3 different pond types. New Paltz undergraduate student, Zoe Foery. SUNY New Paltz Research, Scholarship and Creative Activities (RSCA) program.
- 2021 AC<sup>2</sup> SUNY New Paltz Summer Research Program (SRP). Modeling future climate scenarios in Mohonk Lake. Funded by National Science Foundation Louis Stokes Alliance for Minority Participation (AMP) and New York State Education Department CSTEP (Collegiate Science and Technology Entry Program) through SUNY New Paltz
- 2020 Summer Undergraduate Research Experience (SURE) Award. Ecosystem changes in an acidic lake on the Shawangunk Ridge. New Paltz undergraduate student, Lissa Elzey. SUNY New Paltz Research, Scholarship and Creative Activities (RSCA) program.
- 2020 AC<sup>2</sup> SUNY New Paltz Summer Research Program (SRP). Changes in ice cover of Mohonk

Lake. Funded by National Science Foundation Louis Stokes Alliance for Minority Participation (AMP) and New York State Education Department CSTEP (Collegiate Science and Technology Entry Program) through SUNY New Paltz

- 2020 The trophic state is dynamic: Seasonal patterns of nutrient controls on phytoplankton in lakes across New York State. Water Resources Research Grant, NYS Water Resources Institute.
- 2019 Climate change, teleconnections, and invasive spiny water flea effects. Lake Champlain Basin Program grant.
- 2019 AC<sup>2</sup> SUNY New Paltz Summer Research Program (SRP). The ecological dynamics of the Sky Lakes on the Shawangunk Ridge. Funded by National Science Foundation Louis Stokes Alliance for Minority Participation (AMP) and New York State Education Department CSTEP (Collegiate Science and Technology Entry Program) through SUNY New Paltz
- 2019 Summer Undergraduate Research Experience (SURE) Award. Diversity and ecosystem effects of fish in the Sky Lakes on the Shawangunk Ridge. New Paltz undergraduate student, Katherine Paul and Elena Champagne. SUNY New Paltz Research, Scholarship and Creative Activities (RSCA) program.
- 2019 Research and Creative Projects award. Controls on algal blooms in lakes across the northeastern North America. SUNY New Paltz Committee on Research, Awards and Leaves and Provost Office.
- 2018 Summer Undergraduate Research Experience (SURE) Award. Big fish in a little lake: How the Largemouth Bass (*Micropterus salmoides*) relative health and population size are changing in Lake Minnewaska. New Paltz undergraduate student, Brenna O'Brien. SUNY New Paltz Research, Scholarship and Creative Activities (RSCA) program
- 2018 Effect of climate change on nutrient limitation and algal blooms in headwater lakes of the Hudson River. 2018 to 2019. Water Resources Research Grant, NYS Water Resources Institute.
- 2017 – 2019 Climate Vulnerability of Orange County, New York. In collaboration with the Benjamin Center and Kt Tobin. NY Department of Environmental Conservation, Climate Smart Communities and Orange County.
- 2017 AC<sup>2</sup> SUNY New Paltz Summer Research Program (SRP). The ecological dynamics of the Sky Lakes on the Shawangunk Ridge. Funded by National Science Foundation Louis Stokes Alliance for Minority Participation (AMP) and New York State Education Department CSTEP (Collegiate Science and Technology Entry Program) through SUNY New Paltz
- 2017 Summer Undergraduate Research Experience (SURE) Award. Zooplankton diversity and density as mediators of trophic cascades and food web shifts in Lake Minnewaska, NY. New Paltz undergraduate student, Heather Wander. SUNY New Paltz Research, Scholarship and Creative Activities (RSCA) program
- 2017 Variability in water quality and the effect of climate change and teleconnections on lake thermal structure in the Sky Lakes of Shawangunk Ridge, 2017 to 2018. Water Resources



Research Grant, NYS Water Resources Institute.

- 2016 – 2018 National Science Foundation Division of Biological Infrastructure grant #1624461. Developing a collaborative and strategic vision for Mohonk Preserve's Daniel Smiley Research Center. PI K. Weathers, Cary Institute of Ecosystem Studies; co-PIs: *Richardson* and E. Long, Mohonk Preserve
- 2016 Collaborative Research: Building Analytical, Synthesis, and Human Network Skills Needed for Macrosystem Science: a Next Generation Graduate Student Training Model Based on GLEON Research Opportunity Award (ROA): Supplement Request for NSF Division of Environmental Biology #EF - 1137327, Supplement to award to Dr. Kathleen Weathers, Cary Institute of Ecosystem Studies
- 2016 AC<sup>2</sup> SUNY New Paltz Summer Research Program (SRP). The ecological dynamics of the Sky Lakes on the Shawangunk Ridge. Funded by National Science Foundation Louis Stokes Alliance for Minority Participation (AMP) and New York State Education Department CSTEP (Collegiate Science and Technology Entry Program) through SUNY New Paltz
- 2016 Summer Undergraduate Research Experience (SURE) Award. Ecological Changes in the Sky Lakes: Largemouth Bass diets and salamander communities in Lake Minnewaska. Summer stipend and research funding for New Paltz undergraduate students, Anthony Hollander and Heather Wander. SUNY New Paltz Research, Scholarship and Creative Activities (RSCA) program
- 2015 SUNY 4E Network: SUNY Lake Ecological Observatory Network (SUNY LEON). Collaborators: Dr. Courtney Wigdahl-Perry, SUNY Fredonia, Dr. Devin Castendyk, SUNY Oneonta.
- 2015 SUNY STEM Passport Program. Recovery from Acid Rain and Fish Introduction in the Sky Lakes, Shawangunk Ridge, SUNY New Paltz. SUNY Central.
- 2015 2015 AC<sup>2</sup> SUNY New Paltz Summer Research Program (SRP). The ecological dynamics of the Sky Lakes on the Shawangunk Ridge. Funded by National Science Foundation Louis Stokes Alliance for Minority Participation (AMP) and New York State Education Department CSTEP (Collegiate Science and Technology Entry Program) through SUNY New Paltz
- 2015 Summer Undergraduate Research Experience (SURE) Award. Ecological communities in the Sky Lakes: zooplankton diversity, size and ingestion rates Summer stipend and research funding for New Paltz undergraduate student, Bryan Krebs.
- 2014 Collaborative Research: Whole Ecosystem Experiments on Early Warnings for Regime Shifts to Cyanobacteria in Lakes Research Opportunity Award (ROA): Supplement Request for NSF Division of Environmental Biology #1144627, Supplement to award to Dr. Jon Cole, Cary Institute of Ecosystem Studies
- 2014 Loewy-Mohonk Preserve Liaison Fellowship. Using high frequency sensors and long term data to evaluate the effect of climate change on Lake Mohonk water temperature and physical mixing.

- 2014 Summer Undergraduate Research Experience (SURE) Award. The mystery unveiled: Effects of ecosystem wide changes in Lake Minnewaska on the rare deep water bryophyte, *Sphagnum trinitense* Summer stipend and research funding for New Paltz undergraduate student, Valerie Stanson.
- 2014 Water Resources Research Grant, NYS Water Resources Institute. Using high frequency lake data and fish population analyses to inform management and outreach in the Sky Lakes, Shawangunk Ridge, eastern New York. Collaborators: John Thompson, Mohonk Preserve, Kathleen Weathers, Cary Institute of Ecosystem Studies.
- 2014 SUNY New Paltz Provost Challenge Grant. Understanding lake ecosystem response to a changing world: a research, education, and outreach strategy to examine reversibility of environmental shifts.
- 2014 Evaluating Effectiveness of Green Infrastructure in Improving Watershed Resiliency in the Saw Mill Brook Watershed and Village of New Paltz: a Research, Education, and Outreach Approach at SUNY New Paltz. Subcontract from NYS Water Resources Institute at Cornell University.
- 2013 Summer Undergraduate Research Experience (SURE) Award. Invasion of a minnow (Golden Shiner) in Lake Minnewaska, NY: what are they eating and how are they affecting the lake food web? Summer stipend and research funding for New Paltz undergraduate student, Erich Stern.
- 2013 Summer Undergraduate Research Experience (SURE) Award. Phosphorus and nitrogen as chemical controls of the growth of the invasive river diatom, *Didymosphenia geminata* (didymo). Summer stipend and research funding for New Paltz undergraduate student, Steve Dimeglio.
- 2013 Planning and Implementing Green Infrastructure to Improve Watershed Resiliency in the Saw Mill Brook Watershed and Village of New Paltz. Subcontract from NYS Water Resources Institute at Cornell University. Project Director: KT Tobin, Center for Research, Regional Education and Outreach at SUNY New Paltz.
- 2012 Summer Undergraduate Research Experience (SURE) Award. Understanding the food web and water quality effects of the invasion of a minnow (Golden Shiner) in Lake Minnewaska, NY. Summer stipend and research funding for New Paltz undergraduate student, David Charifson.
- 2011 – 2012 Ashokan Watershed Stream Management Program mini grant program. Didymo in Esopus Creek: Identification of bloom locations and dissemination of decontamination methods to citizens and scientists. Collaborators: T. Hoellein, Baruch College; D. Arscott, Stroud Water Research Center; Catherine Gibson, Skidmore College.
- 2011 Summer Undergraduate Research Experience (SURE) Award. Rock Snot (Didymo), a nuisance algae in Catskills streams: where, why, and how much? Summer stipend and research funding for New Paltz undergraduate student, Nathaniel Rigolino.
- 2010 – 2011 Supplemental funding to develop smart-phone applications for citizen scientists to collect and view environmental data. National Science Foundation award #OCI-0753310, "Collaborative Research: CI-Team Demonstration: Developing a Model for Engagement of

Citizen Scientists: Lake Associations." Collaborators: K. Weathers, Cary Institute of Ecosystem Studies; June Fichter, Lake Sunapee Protective Association; Barbara Benson, University of Wisconsin; Ken Chiu, SUNY Binghamton; Ann Zimmerman, University of Michigan.

- 2010 Summer Undergraduate Research Experience (SURE) Award. Water quality of two anthropogenically affected water bodies: Lake Sunapee and the Wallkill River. Summer stipend and research funding for New Paltz undergraduate student, Steven DiFalco.
- 2010 – 2011 Ashokan Watershed Stream Management Program mini grant program. Rock Snot in Sick Rivers. Collaborators: T. Hoellein, Baruch College; D. Arscott, Stroud Water Research Center; Catherine Gibson, Skidmore College.
- 2010 – 2011 Water Resources Research Grant, NYS Water Resources Institute. Rock snot in sick rivers: What are the environmental drivers controlling blooms of the invasive diatom *Didymosphenia geminata* in the Northeastern and Mid-Atlantic United States? Collaborators: T. Hoellein, Baruch College; D. Arscott, Stroud Water Research Center; Catherine Gibson, Skidmore College.
- 2008 – 2011 National Science Foundation Cyberinfrastructure grant #0753310. Developing a model for engagement of citizen scientists: lake associations. Collaborators: K. Weathers, Cary Institute of Ecosystem Studies; June Fichter, Lake Sunapee Protective Association; Barbara Benson, University of Wisconsin; Ken Chiu, SUNY Binghamton; Ann Zimmerman, University of Michigan.
- 2008 Spring Jacob Goldhaber travel grant (University of Maryland Graduate School)
- 2008 Washington Biologists' Field Club research grant: "Putting stream salamanders in context: linking stream salamander behavior, bioturbation, and the loss of small streams." Collaborator: EHC Grant, University of Maryland
- 2007 North American Benthological Society award for best oral presentation emphasizing methodology, Columbia, South Carolina
- 2007 Summer Entomology Student Organization travel grant (University of Maryland)
- 2006 Fall University of Maryland College of Chemical and Life Science Bioscience Research & Technology Review Day- Best poster in biodiversity and environmental sciences
- 2006 Summer College of Life Sciences graduate travel grant (University of Maryland)
- 2005 – 2008 Research assistant for National Science Foundation grant: "Collaborative research: Seston contributions to metabolism across longitudinal ecosystems (SCALE) - Dynamics of organic particles in river networks." Stroud Water Research Center, Avondale, Pennsylvania.
- 2005 Spring North American Benthological Society President's award

### **Teaching experience**

*Current courses at SUNY New Paltz*

General Biology II: SPRING, Intro Biology for majors, topics include evolution and ecology

Freshwater Biology/Aquatic Ecology: SPRING, Local and regional stream, river, and lake ecosystems

Biological Statistics: FALL, Quantitative statistical analyses used in biology research

Biological Data Analysis and Communication: FALL, Coding in R; presentation of scientific data

*Other invited lectures and teaching experience*

- 2010 January “Restoration ecology” discussion. Fundamentals of ecosystem ecology short course, Cary Institute of Ecosystem Studies, Millbrook, NY.
- 2009 November “Aquatic effects from air and water non-point source pollution: Lake Sunapee, NH” lecture. Geology 370: Environmental Geochemical Science, SUNY New Paltz, New Paltz, NY
- 2009 January “Heterogeneity and ecosystem function” lecture. Fundamentals of ecosystem ecology short course, Cary Institute of Ecosystem Studies, Millbrook, NY.
- 2008 November Bard College, Science of the Natural and Built Environment - guest lecturer during visit to Cary Institute of Ecosystem Studies
- 2008 November SUNY New Paltz, Biology 340 - Ecology (guest lecturer/lab coordinator for aquatic ecology lab)
- 2005 – 2008 Summers Stroud Water Research Center, Mentor for Research Experience for Undergraduate (REU) interns: research advising and organization of journal club
- 2006 Spring University of Maryland, Biological Sciences 103 - The World of Biology (teaching assistant)
- 2005 August University of Maryland, Marine, Estuarine and Environmental Sciences 698S - Ecological and geomorphic principles of stream restoration (guest lecturer)
- 2002 Spring Cornell University, Operations Research and Industrial Engineering 310 - Industrial systems analysis (teaching assistant)

**Presentations** (\* indicates undergraduate student)

- 2022 North, RL, *Richardson DC*, Kouhanestani ZM. Are all reservoirs created equal and do they respond similarly to climate change? Global Lake Ecological Observatory Network meeting, Lake George, NY.
- 2022 Bruel R, et al. ZooSize - Crustacean zooplankton community size distributions across a worldwide set of freshwater lakes. Global Lake Ecological Observatory Network meeting, Lake George, NY.
- 2022 Howard DW, Brentrup JA, *Richardson, DC*, Lewis ASL, Olssen F, Carey, CC. The effect of variable winter dynamics on metabolism rates in a eutrophic reservoir over six years. Global Lake Ecological Observatory Network meeting, Lake George, NY.
- 2022 *Richardson DC*, Holgerson MA, Farragher MJ, Hoffman KK, King K. What is a pond? Empirically and functionally defining small freshwater ecosystems. Joint Aquatic Sciences Meeting, Grand Rapids, MI.
- 2022 Howard DW, Brentrup JA, *Richardson, DC*, Lewis ASL, Carey, CC. The Influence of Winter Dynamics on Annual Metabolism Rates in a Eutrophic Reservoir Over Six Years. Joint Aquatic Sciences Meeting, Grand Rapids, MI.

- 2021 Richardson DC. Lake warming and increased stratification at Mohonk Lake and across northeastern North American lakes. Invited Seminar for Western Connecticut State Fall Lake Symposia.
- 2021 Howard DW, Brentrup JA, Richardson DC, Lewis ASL, Carey CC. The influence of winter dynamics on annual metabolism rates in a eutrophic reservoir over multiple years. Global Lake Ecological Observatory Network 2021 All-hands meeting.
- 2019 *Richardson DC*, Farragher MJ, Holgerson MA, Groskreutz M\*, Hoffman KK, Andersen MR, Hondula KL. #PONDING - What is a pond? Global Lake Ecological Observatory Network meeting G21, Huntsville, Canada.
- 2019 Rabaey JS, Andersen MR, Holgerson MA, Hondula KL, *Richardson DC*. #PONDING – Metabolism: What drives production and respiration in ponds? Global Lake Ecological Observatory Network meeting G21, Huntsville, Canada.
- 2019 Holgerson MA, Deemer BR, Andersen MR, Hondula K, *Richardson DC*. Exploring global carbon emissions and the importance of small water bodies. Global Lake Ecological Observatory Network meeting G21, Huntsville, Canada.
- 2019 Goldfarb, SK, Doubek J, Antão-Geraldes A, Bartrons M, Berger S, Brentrup JA, Brucet S, Burnet S, Caputo Galarce L, Carey CC, Christoffersen K, de Eyto E, Dur G, ..., *Richardson DC*, et al. The Effects of Hypoxia on Zooplankton Population Estimates and Migration in Lakes. Global Lake Ecological Observatory Network meeting G21, Huntsville, Canada.
- 2019 Brentrup, JA, Ward NK, Carey CC, Cottingham KL, Bruesewitz DA, *Richardson DC*, Weathers KC. A comparison of three winters of under-ice ecosystem metabolism estimates reveals high variability in under-ice net ecosystem production. Global Lake Ecological Observatory Network meeting G21, Huntsville, Canada.
- 2019 Andersen, MR, *Richardson DC*, Hondula K, Jennings E, Holgerson MA. #Ponding - Mixing and stratification. Global Lake Ecological Observatory Network meeting G21, Huntsville, Canada.
- 2019 *Richardson DC*, O'Brien BA\*, and Saha PR\*. Big fish in a little lake: Health of the Largemouth Bass population as the only fish species in a formerly fishless lake. Ecological Society of America annual meeting poster presentation, Louisville, KY.
- 2019 Volponi SN\*, Johnson L\*, Wander HL\*, *Richardson DC*, Bruesewitz DA, Williams CJ, Nadkarni N\*, Yokota K, Wigdahl-Perry C, Arnott S, Norman B, Ewing HA, Morales-Williams M, Holeck K, Weathers KC, Edwards HL\*, Kim B\*, Brentrup JA, Ward N, Lindner S, Palmalee L, and Shultis A. Is all nitrogen created equal: The effects of organic and inorganic nitrogen on phytoplankton nutrient limitation in northeastern North American lakes. Ecological Society of America annual meeting poster presentation, Louisville, KY.
- 2019 Ward NK, Brentrup JA, *Richardson DC*, and Carey CC. Spatial variability in oligotrophic lake metabolism may indicate trophic state change due to localized stream loading. Ecological Society of America annual meeting oral presentation, Louisville, KY.

- 2018 Wander HL\*, Carter E\*, Tracy A\*, Katayama T\*, Volponi S\*, Yokota K, Arnott S, Ewing H, Norman B, Morales MA, Williams CJ, Ward N, Brentrup JA, Wigdahl-Perry CR, Holeck KT, Bruesewitz DA, *Richardson DC*. Inorganic nitrogen, organic nitrogen, and phosphorus limitation of lake phytoplankton and heterotrophs across northeastern North America. Global Lake Ecological Observatory Network meeting G20, Rottneest Island, Australia.
- 2018 Ward NK, Brentrup JA, *Richardson DC*, Weathers KC, Carey CC. Linking spatially explicit lake metabolism to spatially heterogeneous external nutrient loading. Global Lake Ecological Observatory Network meeting G20, Rottneest Island, Australia.
- 2018 Brentrup JA, *Richardson DC*, Carey CC, Ward NK, Bruesewitz DA, Weathers KC. The importance of ice-on and ice-off periods for driving under-ice metabolism dynamics in an oligotrophic lake. Global Lake Ecological Observatory Network meeting G20, Rottneest Island, Australia.
- 2018 Brentrup JA, *Richardson DC*, Carey CC, Ward NK, Bruesewitz DA, Weathers KC. The importance of ice-on and ice-off periods for driving under-ice metabolism dynamics in an oligotrophic lake. Association for the Sciences of Limnology and Oceanography Summer meeting oral presentation, Victoria, BC, Canada.
- 2018 Bruesewitz DA, Yokota, K, Borre, L, Klug, JL, *Richardson DC*, Weathers, KC, Wigdahl-Perry C. Introducing undergrads to team science in lake research: northeast GLEON. Association for the Sciences of Limnology and Oceanography Summer meeting oral presentation, Victoria, BC, Canada.
- 2018 Bruesewitz DA, Borre, L, Klug, J, *Richardson DC*, Wigdahl C, Yokota, K. Developing collaborative research to take freshwater science education outside the classroom: the story of northeast GLEON. Society for Freshwater Science conference poster presentation, Detroit, MI.
- 2018 Bruesewitz DA, Kim BS\*, Lewis AS\*, Edwards HL\*, Wander HL\*, Taylor AE\*, Poulin N\*, Princiotta S, Yokota K, Wigdahl C, Rose K, *Richardson DC*. Patterns of nutrient limitation in sixteen northeastern US lakes. Society for Freshwater Science conference poster presentation, Detroit, MI.
- 2018 Bruno EC\*, Wander HL\*, Reid KA\*, McFadden SR\*, Hollander AJ\*, Green DM\*, Edwards HL\*, *Richardson DC*. An oligo-mesotrophic lake partially returns to past trophic status and ecosystem structure upon loss of an intermediate trophic level. Oral Presentation, Northeastern Geological Society of America meeting, Burlington, VT.
- 2018 McFadden SR\*, Wander HL\*, Reid KA\*, Hollander AJ\*, Green DM\*, Edwards HL\*, *Richardson DC*. Nutrient profiles of a lake with novel fluctuations in dissolved oxygen concentrations. Oral Presentation, Northeastern Geological Society of America meeting, Burlington, VT.
- 2018 *Richardson DC*. Lake Minnewaska in Flux: A Trophic Cascade at an Isolated Sky Lake. PIPLON LYCEUM Palisades Interstate Park League of Naturalists. Invited oral presentation.
- 2017 *Richardson DC*. Lake warming and increased stratification here at Mohonk Lake and across northeastern North America. Global Lake Ecological Observatory Network meeting G19, New Paltz, NY.

- 2017 Bruno EC\*, Edwards HL\*, Reid KA\*, Lewis AS\*, Green DM\*, Hollander AJ\*, McFadden SR\*, Wander HL\*, *Richardson DC*. Co-limitation of nitrogen and phosphorus at the epilimnion, metalimnion, and hypolimnion as a bottom-up control on phytoplankton biomass in an oligo/mesotrophic lake. Global Lake Ecological Observatory Network meeting, New Paltz, NY.
- 2017 Hollander AJ\*, Green DM\*, Bruno EC\*, Edwards HL\*, McFadden SR\*, Reid KA\*, Wander HL\*, *Richardson DC*. Intermediate trophic level loss affects ecosystem structure and function in Lake Minnewaska, NY. Global Lake Ecological Observatory Network meeting, New Paltz, NY.
- 2017 Wander HL\*, Edwards HL\*, Bruno EC\*, Green DM\*, Teape PW\*, *Richardson DC*. Cross lake differences in zooplanktivorous fish affects the spatial zooplankton density, size, and diversity. Global Lake Ecological Observatory Network meeting, New Paltz, NY.
- 2017 Kim BS\*, Lewis AS\*, Edwards HL\*, Wander HL\*, Taylor AE\*, Poulin N\*, Princiotta S, Yokota K, Wigdahl C, Rose K, *Richardson DC*, Bruesewitz DA. Patterns of nutrient limitation in sixteen northeastern US lakes. Global Lake Ecological Observatory Network meeting, New Paltz, NY.
- 2017 Klug J, *Richardson DC*, Borre L, Bruesewitz DA, Princiotta SD, Wigdahl-Perry CR, Weathers KC, Yokota K, Arnott SE, Ewing HA, Rose KC, Rusak JA, Saros JE, Smyth RL, Stockwell JD. NE GLEON (Northeastern North America GLEON): a model for undergraduate engagement in limnology and buoy science. Global Lake Ecological Observatory Network meeting, New Paltz, NY.
- 2017 Edwards HL\*, Reid KA\*, Bruno EC\*, Green DM\*, Hollander A\*, McFadden S\*, Wander HL\*, *Richardson DC*. Co-limitation of nitrogen and phosphorus as a bottom-up control on algal biomass in a mesotrophic lake. Ecological Society of America annual meeting poster presentation, Portland, OR.
- 2017 Hollander A\*, Wander HL\*, Green DM\*, McFadden S\*, Bruno EC\*, Reid KA\*, Edwards HL\*, *Richardson DC*. Loss of intermediate trophic level in mesotrophic lake resulting in decreased algal biomass, and increased water clarity and increased anoxia. Ecological Society of America annual meeting poster presentation, Portland, OR.
- 2017 Carey CC, Gougis RD, Klug JL, *Richardson DC*. Integrating high-frequency data and distributed computing into undergraduate and graduate student classrooms builds quantitative literacy and modeling skills. Ecological Society of America annual meeting poster presentation, Portland, OR.
- 2016 Wilcove B\*, Farragher M\*, Davis BA\*, Micelli K\*, Hollander A\*, Herten J\*, *Richardson DC*. Decreasing acid precipitation in the Shawangunk Mountains, New York and the differential recovery of lake acidity. Ecological Society of America annual meeting poster presentation, Fort Lauderdale, FL.
- 2016 Farragher M\*, Wilcove B\*, Davis BA\*, Herten J\*, Hollander A\*, *Richardson DC*. The effect of acidity on the clearance of green algae by *Daphnia pulex*. Ecological Society of America annual meeting poster presentation, Fort Lauderdale, FL.
- 2016 Davis BA\*, Hollander A\*, Wilcove B\*, Herten J\*, Micelli K\*, Farragher M\*, *Richardson DC*. The effects of fish species on lake dissolved oxygen concentration compared to an acidic lake. Ecological Society of America annual meeting poster presentation, Fort Lauderdale, FL.

- 2016 Melles SJ, Pilla R, *Richardson DC*, Knoll L, Hetherington AL, Williamson C. Collaborating to explore how lake thermal structure has changed in recent decade for north eastern North American Lakes. Association for the Sciences of Limnology and Oceanography oral presentation, Sante Fe, NM.
- 2016 Carey CC, Gougis RD, *Richardson DC*, Klug JL, O'Reilly CM. Integrating high-frequency limnology data and distributed computing into undergraduate and graduate classrooms builds quantitative reasoning and modeling skills. Association for the Sciences of Limnology and Oceanography oral presentation, Sante Fe, NM.
- 2015 Forcella M, *Richardson DC*. DIY data buoys: Creating a low-cost environmental sensor network. Global Lake Ecological Observatory Network (GLEON) meeting, Chucheon, South Korea.
- 2015 *Richardson, DC*, Forcella, M, Thompson, J, Weathers KC, and Smiley AK. New Site: Mohonk Lake, Shawangunk Ridge, New York, USA. Global Lake Ecological Observatory Network (GLEON) meeting, Chucheon, South Korea.
- 2015 *Richardson DC*, Castendyk D, Bader NE, Carey CC, Gougis R, Fuller R, Gibson CA, Klug JL, Meixner T, O'Reilly C. Environmental data-driven inquiry and exploration (Project EDDIE): A model to engage students in quantitative reasoning and scientific discourse. Ecological Society of America annual meeting poster presentation, Baltimore, MD.
- 2015 Stanson V\*, Krebs BS\*, Davis B\*, Farragher M\*, *Richardson, DC*, Thompson J, Chen A\*. The ecosystem effects of fish introduction and the recovery from acid rain: A story of fish and macrophytes. Ecological Society of America annual meeting poster presentation, Baltimore, MD.
- 2015 Krebs BS\*, Chen A\*, Davis B\*, Farragher M\*, Stanson V\*, *Richardson DC*. The zooplankton community during the introduction and loss of a zooplanktivorous fish species in a temperate lake. Ecological Society of America annual meeting poster presentation, Baltimore, MD.
- 2015 Maceli, C\* and *Richardson, DC*. Green infrastructure mitigates severity of flooding events on the State University of New York at (SUNY) New Paltz campus. Ecological Society of America annual meeting poster presentation, Baltimore, MD.
- 2015 *Richardson, DC*. Acid rain, fish introductions, and climate change: the changing ecological dynamics of the Sky Lakes on the Shawangunk Ridge, NY. Invited Seminar, Cornell Biological Field Station, Bridgeport, NY.
- 2015 *Richardson, DC*, Albers, B, Charifson, DM, Stanson, VJ, Stern, EM, Thompson, JE. Fish introduction, following unexpected recovery from acidification, causes a trophic cascade in Lake Minnewaska, NY. Society for Freshwater Science conference oral presentation, Milwaukee, WI.
- 2015 *Richardson, DC*. Secrets of the Sky Lake: Acid Rain, fish and leech introductions, and climate change. Invited Seminar, Shawangunk Ridge Biodiversity Partnership Lecture Series, New Paltz, NY.
- 2015 *Richardson, DC*. Using high frequency sensors and long term data to evaluate the effect of climate change on Lake Mohonk water temperature and physical mixing. Invited Seminar, Mohonk Preserve Conservation Science Meeting, New Paltz, NY.



- 2014 *Richardson, DC*. Environmental change on the Shawangunk Ridge: how acid rain, introduced fish, and leeches are affecting the Sky Lakes. Invited Seminar for the Biology Lecture Series, SUNY New Paltz, New Paltz, NY.
- 2014 *Richardson DC, Carey, CC, Bruesewitz DA, Weathers, KC*. Intra- and inter-annual variability in metabolism in an oligotrophic lake. Poster presentation, Global Lake Ecological Observatory Network (GLEON) meeting, Orford, Quebec, Canada.
- 2014 Carey, CC, O'Reilly, CM, *Richardson, DC*, Klug, JL, Bader, N, Castendyk, D, Gougis, R, Fuller, R, Gibson, C, Meixner, T, Stomberg, J, Weathers, KC. A new undergraduate education project using GLEON data: The use of high-frequency data to engage students in quantitative reasoning and scientific discourse. Oral presentation, Global Lake Ecological Observatory Network (GLEON) meeting, Orford, Quebec, Canada.
- 2014 DiMeglio, S\*, *Richardson, DC*. Didymo, a Nuisance River Algal Species: Nutrient Controls on Growth Patterns in the Eastern Catskills, New York. Catskill Environmental Monitoring and Research Conference poster, Highmount, New York.
- 2014 Castendyk, D, Bader, N, Carey, C, Gougis, R, Fuller, R, Gibson, C, Klug, J, Meixner, T, O'Reilly, C, *Richardson, D*. The use of high-frequency data to engage students in quantitative reasoning and scientific discourse. Poster presentation, Geologic Society of America Vancouver, BC.
- 2014 *Richardson, DC*, Klug, JL, +Carey, CC. Connecting high-frequency and long-term data with traditional undergraduate lab activities to build quantitative reasoning and limnological literacy. Poster presentation, Joint Aquatic Sciences Meeting, Portland, OR. +Presenting author: CCC.
- 2014 O'Reilly, CM, Darner, R, Carey, CC, *Richardson, DC*, Weathers, KC. The use of high-frequency data to engage students in quantitative reasoning and scientific discourse. Poster presentation, Joint Aquatic Sciences Meeting, Portland, OR.
- 2014 *Richardson, DC*, Klug, JL, Carey, CC. Connecting high-frequency and long-term data with traditional undergraduate lab activities to build quantitative reasoning and limnology literacy. Oral presentation, Joint Aquatic Sciences Meeting, Portland, OR.
- 2014 Stanson, V\*, Stern, E\*, Charifson, DM\*, Thompson, J, *Richardson, DC*. Environmental Change on the Shawanagunk Ridge, New York: How Acid Rain and Fish Introduction Have Affected Biology and Water Chemistry in Lake Minnewaska. Poster presentation, Joint Aquatic Sciences Meeting, Portland, OR.
- 2014 Stern, E\*, Charifson, DM\*, Stanson, V\*, Thompson, J, *Richardson, DC*. A trophic cascade as the result of the introduction of *Notemigonus Crysoleucas* (Golden Shiner minnow) in Lake Minnewaska, New York. Poster presentation, Joint Aquatic Sciences Meeting, Portland, OR.
- 2014 Maceli, C\*, Uhrlass, A\*, LeTourneau, A\*, Vail, E, Tobin, KT, *Richardson, DC*. Summer storms modify water quality in a series of man-made ponds on the State University of New York at (SUNY) New Paltz campus. Poster presentation, Joint Aquatic Sciences Meeting, Portland, OR.

- 2014 DiMeglio, S\*, *Richardson, DC*. A spatial and temporal study of didymo, a nuisance river algal species, in the eastern Catskills, New York. Poster presentation, Hudson River Symposium, New Paltz, NY.
- 2014 *Richardson, DC*. Environmental change on the Shawangunk Ridge: how acid rain and invasive fish are affecting the Sky Lakes. Invited Seminar for the Biology Lecture Series in Memory of Dr. Donald J. Ross Sr., Fairfield University, Fairfield, CT.
- 2014 Bruesewitz DA, Carey, CC, *Richardson DC*, Weathers, KC. LSPA Water Quality buoy: scientific results and synergistic outcomes. Invited Seminar, Lake Sunapee Protective Association Board Meeting, Sunapee, NH.
- 2013 *Richardson, DC*, Townley, L. A research and management partnership to understand environmental change in the Sky Lakes. Invited Seminar, Shawangunk Ridge Biodiversity Partnership Joint Steering and Research and Management Committees meeting.
- 2013 Bruesewitz DA, Carey, CC, *Richardson DC*, Weathers, KC. The evolution of synergistic science using Lake Sunapee buoy data: A case study of collaborative, high-frequency data analysis. Global Lake Ecological Observatory Network (GLEON) 15 meeting, Bahia Blanca, Argentina.
- 2013 *Richardson, DC*, Charifson, DM\*, Stern, E\*, Thompson, J\*. Two stories about environmental change in the Sky Lakes, Shawangunk Ridge. Invited Seminar, Mohonk Preserve Conservation Science Meeting, New Paltz, NY.
- 2013 *Richardson, DC*, Oleksy, IA\*, Hollein, TH, Arscott, DB, Gibson, C, Root, S\*, Bruesewitz DA, Carey, CC. Why are Didymo (*Didymosphenia geminata*) blooms spreading in New York State? A spatial survey and biogeochemical hypotheses. Invited Seminar, Virginia Tech Stream Team, Blacksburg, VA.
- 2013 Smiley, SF, Cook, BI, Cook, ER, Huth, PC, Thompson, JE, and *Richardson DC*. Climate and species phenology changes at Mohonk Lake, New York. Northeastern Natural History Conference poster presentation, Springfield, MA.
- 2013 *Richardson, DC*, Oleksy, IA\*, Hollein, TH, Arscott, DB, Gibson, C, Root, S\*. Spatial distribution and ecosystem effects of a nuisance, bloom-forming diatom (*Didymosphenia geminata*) in Catskill Mountain streams, New York. Society for Freshwater Science conference oral presentation, Jacksonville, FL.
- 2013 *Richardson, DC*, Oleksy, IA\*, Hollein, TH, Arscott, DB, Gibson, C, Root, S\*. Spatial distribution and ecosystem effects of a nuisance, bloom-forming diatom (*Didymosphenia geminata*) in Catskill Mountain streams, New York. International Didymo Conference, Providence, Rhode Island.
- 2012 Klug, JL, *Richardson, DC*, Ewing, HA, Hargreaves, BR, Samal, NR, Vachon, D, Pierson, DC, Lindsey, AM, O'Donnell, DM, Effler, SW, Weathers, KC. A regional analysis of the effects of Tropical Cyclone Irene on lake ecosystems across northeastern North America. Catskill Environmental Monitoring and Research Conference poster, Highmount, New York.
- 2012 Bialowas, E\* and *Richardson, DC*. The effect of *Didymosphenia geminata* (Didymo) on macroinvertebrate communities in Esopus Creek, NY. Catskill Environmental Monitoring and Research Conference poster, Highmount, New York.

- 2012 Oleksy IA\*, *Richardson DC*, Gibson, CA, Hoellein, TJ, Arscott, DB, Achterberg, L\*, Bialowas, E\*, Handler, A\*, Miller, A\*, Redfield, M\*. *Didymosphenia geminata* (Rock Snot) in the New York City Watershed – factors that affect the growth, spatial distribution, and timing of the Didymo bloom in the Esopus Creek (2010-2012). Catskill Environmental Monitoring and Research Conference poster, Highmount, New York.
- 2012 Miller A\*, Bialowas, E\*, Oleksy, IA\*, and *Richardson, DC*. Didymo on the Move: A Spatial Analysis of *Didymosphenia geminata* (didymo) in Catskills, New York. Catskill Environmental Monitoring and Research Conference poster, Highmount, New York.
- 2012 Klug, JL, *Richardson, DC*, Ewing, HA, Hargreaves, BR, Samal, NR, Vachon, D, Pierson, DC, Lindsey, AM, O'Donnell, DM, Effler, SW, Weathers, KC. A regional analysis of the effects of Tropical Cyclone Irene on lake ecosystems across northeastern North America. Global Lake Ecological Observatory Network (GLEON) meeting, Mulranny, Co. Mayo, Ireland.
- 2012 *Richardson, DC*, Klug JL, Ewing HA, Hargreaves BR, Samal NR, Vachon D, Pierson DC, Lindsey AE, O'Donnell D, Effler SW, Weathers KC. A regional analysis of the physical and biological effects of Tropical Cyclone Irene on lake ecosystems across northeastern United States and eastern Canada. Ecological Society of America annual meeting oral presentation, Portland, OR.
- 2012 Handler AM\*, Oleksy IA\*, *Richardson DC*, Rigolino N\*, Hoellein T, Arscott DB, Gibson CA. Physiochemical controls of the growth of the invasive freshwater diatom, *Didymosphenia geminata*, in Rondout Creek, New York. Ecological Society of America annual meeting poster presentation, Portland, OR.
- 2012 Oleksy IA\*, Handler AM\*, Rigolino N\*, Arscott DB, Gibson CA, Hoellein T, *Richardson DC*. A spatial analysis of *Didymosphenia geminata* (rock snot) in the New York City watershed. Ecological Society of America annual meeting poster presentation, Portland, OR.
- 2012 *Richardson, DC*, Klug JL, Ewing HA, Hargreaves BR, Samal NR, Vachon D, Pierson DC, Lindsey AE, O'Donnell D, Effler SW, Weathers KC. A regional analysis of the physical and biological effects of Tropical Cyclone Irene on lake ecosystems across northeastern United States and eastern Canada. Association for the Sciences of Limnology and Oceanography meeting oral presentation, Lake Biwa, Otsu, Japan.
- 2012 Chickering, JS\*, Baer NA, *Richardson DC*, Ewing HA, Roebuck HJ\*, Weathers KC. Spatial and temporal patterns of DOC bioavailability in six streams, Sunapee, New Hampshire. Society for Freshwater Science conference oral presentation, Louisville, KY.
- 2012 Hoellein, TJ, Bruesewitz DA, *Richardson DC*. Revisiting Odum (1956): A synthesis of ecosystem metabolism reveals controls on primary production & respiration across lakes, wetlands, streams, and estuaries. Society for Freshwater Science conference oral presentation, Louisville, KY.
- 2011 Aufdenkampe, AK, Mayorga E, *Richardson DC*, Newbold JD, Bukaveckas PA, Angradi TR. A novel approach to quantifying algal contributions to suspended organic matter from elemental composition. American Geophysical Union, San Francisco, CA.

- 2011 *Richardson, DC*, Hoellein TJ, Gibson C, Arscott DB, Root S\*. *Didymosphenia geminata* (didymo) in West of Hudson watersheds – with a focus on Esopus Creek. Invited talk, Stroud Water Research Center, Avondale, PA.
- 2011 Weathers KC, Ewing HA, Baer NA, Chen CY, Roebuck HJ\*, Maki CE\*, *Richardson DC*, Lindsey AM, Wilson A, Chikering J, Fiorillo AU, Cottingham KL. From Air to Water: Hg deposition and biogeochemistry, Sunapee, NH watersheds. National Atmospheric Deposition Program annual meeting oral presentation, Providence, Rhode Island.
- 2011 Hanson PC, Bertilsson S, Rose KC, Williamson CE, Saros JE, Kissman CEH, Bruesewitz DA, *Richardson DC*, Solomon CT, Van de Bogert MC, Holtgrieve GW, Sadro S, Koch G. Dissolved oxygen from 20 lake observatories: Changing drivers from minutes to months. Ecological Society of America conference oral presentation, Austin, Texas.
- 2011 Weathers, KC, *Richardson, DC*, Benson, BJ, Chiu, K, Zimmerman, A, and Fichter, J. Enhancing human passion and curiosity about lake ecosystem function: A case study of sensors, citizens, and cyberinfrastructure from Lake Sunapee, NH. Ecological Society of America conference oral presentation, Austin, Texas.
- 2011 Bruesewitz, DB, *Richardson, DC*, Rose, KC, Solomon, CT, and Van de Bogert, MC. Drivers of pelagic metabolism: evidence from high frequency free-water measurements in lakes around the globe. Ecological Society of America conference oral presentation, Austin, Texas.
- 2011 DiFalco, S\*; *Richardson, DC*. Spatial and temporal variability of water quality in an anthropogenically affected river, Wallkill River and its tributary, New Paltz, NY. North American Benthological Society conference poster presentation, Providence, RI.
- 2011 *Richardson, DC*; Achterberg, LA\*; Redfield, MR\*; Root, S\*; Arscott, DB; Gibson, C; Hoellein, TJ. Rock snot in a sick river: *Didymosphenia geminata* (Didymo) blooms and water chemistry in Esopus Creek, Catskill Mountains, NY. What causes didymo blooms in Esopus Creek? North American Benthological Society conference poster presentation, Providence, RI.
- 2011 Achterberg, LA\*; Redfield, MR\*; *Richardson, DC*; Hoellein, TJ; Root, S\*; Arscott, DB; Gibson, C. Macro and micronutrient influences on *Didymosphenia geminata* (didymo) growth in the newly invaded stream, Esopus Creek, NY. North American Benthological Society conference poster presentation, Providence, RI.
- 2010 *Richardson, DC*; Achterberg, LA\*; Redfield, M\*; Root, S\*, Arscott, DA; Gibson, C; Hollein, TJ. Rock snot in a sick river: What causes didymo blooms in Esopus Creek? Catskill Environmental Monitoring and Research Conference poster, Highmount, New York.
- 2010 Root, S\*; *Richardson, DC*; and O'Reilly, C. An Assessment of Three Common Decontamination Products on the Invasive Algae *Didymosphenia geminata*. Catskill Environmental Monitoring and Research Conference invited poster, Highmount, New York.
- 2010 Root, S\*, *Richardson, DC* and O'Reilly, C. Didymo Update: Rock Snot is Growing in New York Rivers. Cornell Cooperative Extension (Invasive Species) Invited Talk, Cornell University, Ithaca, New York.

- 2010 *Richardson, DC*, Ewing, HA, Weathers, KC, and Baer, NA. Fluxes of dissolved and particulate phosphorus into a New England oligotrophic lake, Lake Sunapee, with increasing cyanobacterial blooms. North American Benthological Society and American Society of Limnology and Oceanography joint conference oral presentation, Santa Fe, New Mexico.
- 2010 Baer, NA, *Richardson, DC*, Weathers, KC, Ewing, HA, and Roebuck, HJ. Seasonal trends, watershed drivers, and bioavailability of dissolved organic carbon (DOC) in tributaries of Lake Sunapee, NH. North American Benthological Society and American Society of Limnology and Oceanography joint conference poster presentation, Santa Fe, New Mexico
- 2010 Solomon, CT, Bruesewitz, DB, *Richardson, DC*, Rose, KC, and Van de Bogert, MC. Drivers of pelagic community respiration: evidence from high frequency free-water measurements in lakes around the globe. North American Benthological Society and American Society of Limnology and Oceanography joint conference oral presentation, Santa Fe, New Mexico.
- 2010 *Richardson, DC*. How lakes breathe. Lake Sunapee Protective Association Board Meeting, Sunapee, NH.
- 2009 *Richardson, DC* and Hoellein, TH. Rock snot and river congestion: What are the causes and consequences of blooms of *Didymosphenia geminata*? Cornell Cooperative Extension (Invasive Species) Invited Talk, Cornell University, Ithaca, New York.
- 2009 *Richardson, DC*, Benson, BJ, Chiu, K, Fichter, J, Weathers, KC, and Zimmerman, A. Engaging citizen-scientists with real-time lake data: The CI-Team web portal and you. Cyberinfrastructure Team workshop, Trout Lake Station, Boulder Junction, Wisconsin.
- 2009 *Richardson, DC*, Benson, BJ, Chiu, K, Fichter, J, Weathers, KC, and Zimmerman, A. Developing a web interface to engage citizen scientists with lake sensor data. Global Lake Ecological Observatory Network (GLEON) 13 meeting, Boulder Junction, Wisconsin.
- 2009 *Richardson, DC*. Lake Sunapee in real time. Lake Sunapee Protective Association summer series, Invited Talk, Sunapee, NH.
- 2009 *Richardson, DC* and Grant, EHC. Contributions of crayfish and salamander activity to increases in nighttime seston concentrations in a stream ecosystem. North American Benthological Society Conference Oral Presentation, Grand Rapids, MI.
- 2009 *Richardson, DC*, Weathers, KC, and Fichter, J. Communicating science with citizens and managers: a case example from Lake Sunapee, NH. Cary Conference XIII: Effective Communication of Science in Environmental Controversies. Poster presentation, Millbrook, NY.
- 2008 Kaplan, LA, *Richardson DC*, Newbold, JD, and Aufdenkampe, AK. Diel Patterns of Dissolved and Particulate Organic Matter Transport in a Pennsylvania Piedmont Stream. Diurnal Cycling of Chemical Constituents in Surface Water and Related Scientific Regulatory Consideration, NJDEP, USGS, and Rutgers WRPI, Trenton, NJ.
- 2008 *Richardson, DC*. Stream seston: Transport, sources, and Darwin. University of Maryland, Department of Entomology, Invited Oral Seminar, College Park, MD.
- 2008 *Richardson, DC*. Biological regulation of stream particle transport. Cary Institute of Ecosystem Studies, Invited Oral Presentation, Millbrook, NY.

- 2008 *Richardson, DC*, Aufdenkampe, AK, Newbold, JD, and Kaplan, LA. Modeling sources of seston, particulate organic carbon and particulate nitrogen within a stream ecosystem. North American Benthological Society Conference Oral Presentation, Salt Lake City, UT.
- 2007 Grant, EHC and *Richardson, DC*. Stream drying and the salamander larvae: where do they go? Marine Estuarine and Environmental Sciences Colloquium Poster Presentation, University of Maryland, College Park, MD.
- 2007 *Richardson, DC*, Newbold, JD, Aufdenkampe, AK, Taylor, PG and Kaplan, LA. A method for measuring bacterial mineralization rates of suspended particulate organic carbon in stream ecosystems. North American Benthological Society Conference Oral Presentation, Columbia, SC.
- 2006 *Richardson, DC*, Kaplan, LA and Newbold, JD. Baseflow dynamics and sources of seston in a stream ecosystem: recurring nighttime peaks. Ecological Society of America Conference Poster, Memphis, TN.
- 2005 Menninger, HL, Palmer, MA, Craig, LS, Hassett, BA, *Richardson, DC*, Smith, RF. Terrestrial-aquatic linkage: The effects of periodical cicadas on stream ecosystem function. Ecological Society of America Conference Oral Presentation, Montreal, Canada.
- 2004 *Richardson, DC*; Kaplan, LA and Palmer, MA. Point source contributions of suspended organic matter to an agricultural watershed with intact riparian forests. Marine Estuarine and Environmental Sciences Colloquium Poster Presentation, Horn Point Laboratory, Cambridge, MD.
- 2004 Ewing, H; Suarez, E; St. John, M; *Richardson, DC*; Peierls, B; Frost, C; Euskirchen, E; Brookshire, J; Lindberg, S; Weathers, K. Mercury deposition and emission to and from heterogeneous landscapes: Exploring simple models. Ecological Society of America Conference Poster, Portland, OR.
- 2004 Ewing, H; Weathers, K; Brookshire, J; Euskirchen, E; Frost, C; Peierls, B; *Richardson, DC*; St. John, M; Suarez, E; Groffman, P. Learning to model and learning to collaborate: An experiment in graduate education. Ecological Society of America Conference Poster, Portland, OR.
- 2004 Swan, CM; *Richardson, DC*; Palmer, MA. A simulation study of detritivore foraging on speciose leaf litter: implications for the diversity-function relationship in stream ecosystems. Ecological Society of America Conference Oral Presentation, Portland, OR.

### **Committees and service**

- 2018 – present SUNY New Paltz Faculty Athletic Representative
- 2023 Anatomy Faculty search Committee
- 2020-2023 SUNY New Paltz Biology Department personnel committee
- 2021 SUNY New Paltz Athletic Director search committee
- 2016 – 2017 Program and Organizing Committee Co-Chair and local host for Global Lakes Ecological Observatory Network 19<sup>th</sup> All-hand's meeting, New Paltz
- 2013 – 2017 SUNY New Paltz Academic Standing Committee

2015	SUNY STEM Passport program reviews
2011 – 2015	SUNY New Paltz Sustainability Committee
2013 – present	Technical Center for Aquatic Nuisance Species (TCANS) Principal Investigator
2013 – 2014	Digital humanities Interdisciplinary Faculty Search – (School of Science and Engineering, Liberal Arts and Sciences, Fine and Performing Arts)
2012 – 2013	Computer Scientist/Data visualization/Data Analysis Faculty search committee – Interdisciplinary (School of Science and Engineering, Liberal Arts and Sciences, Fine and Performing Arts) – Failed search.
2012 – 2013	Avian Biologist Faculty Search Committee
2011 – 2012	Plant Ecologist Faculty Search Committee
2013	Session moderator for ‘T18 Invasive Species’, Society for Freshwater Science annual meeting, Jacksonville, FL.
2012 – present	Mohonk Preserve Daniel Smiley Research Center Research Committee
2010	Session moderator, Catskill Environmental Monitoring and Research Conference, Highmount, New York.
2010	Special session organizer and moderator, North American Benthological Society and American Society of Limnology and Oceanography joint conference, Santa Fe, New Mexico
2010	Science commentator, “ <i>GREEN: art with the earth in mind</i> ” exhibit, Annmarie Garden Sculpture Park & Arts Center, Solomons, Maryland
2010	Ulster Counselors Career Conference “Science” panelist, March 11
2009 – 2010	Young Environmental Scientists (YES) conference evaluator
2009 – 2011	Lake Sunapee Protective Association Science Advisory Committee
2007 – 2008	Green Science at Stroud (GSAS) committee member, Stroud Water Research Center, Avondale, PA.
2007 – 2008	Marine, Estuarine and Environmental Sciences Graduate Student Organization representative to the University of Maryland Graduate Student Government
2005 – 2006	Department of Entomology website committee, University of Maryland, College Park, Maryland
2005 – 2008	Palmer lab website webmaster

### **Professional affiliations**

2002 – present	Society for Freshwater Science (formerly North American Benthological Society); Ecological Society of America
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2008 – present      Global Lake Ecological Observatory Network (GLEON)  
2017 – present      International Society of Limnology

### **Reviewing activity**

-Aquatic Sciences (2024)  
-Inland Waters (2023)  
-Ecology and Evolution (2023)  
-Geophysical Research Letters (2022)  
-Aquatic Sciences (2022)  
-Freshwater Science (2021)  
-Ecosystems (2020)  
-Water Resources Research (2020)  
-Freshwater Biology (2020)  
-Freshwater Science (2019)  
-Limnology and Oceanography (2019)  
-Water Resources Research (2018)  
-Freshwater Science (2017)  
-Aquatic Sciences (2016)  
-Aquatic Ecology (2015)  
-Freshwater Biology (2013)  
-United States Geological Survey Technical review (2013)  
-Acta Oecologia (2012)  
-Biogeochemistry (2010)  
-National Science Foundation, Ecosystem Science Cluster (2009, 2010, 2017)  
-Methods in Stream Ecology, 2<sup>nd</sup> edition, 2006, Hauer, R. and Lamberti, G.A.  
-Journal of Geophysical Research (with Newbold, J.D.)  
-Limnology and Oceanography (with Palmer, M.A.)

### **Summer research mentoring**

2023 Summer      *Kamari McKechnie (SUNY Dutchess/ESF)* – AC<sup>2</sup> summer and NSF Shoulder Season intern  
                         *Dom Edwards (SUNY New Paltz)* – AC<sup>2</sup> summer and NSF Shoulder Season intern  
                         *Rodolfo Baez (SUNY New Paltz)* – AC<sup>2</sup> summer and NSF Shoulder Season intern  
                         *Hope Nitza (Brown University)* – Volunteer and NSF Shoulder Season intern  
                         *Delaney Long (SUNY New Paltz)* – Student Undergraduate Research Experience (SURE) and NSF  
                         Shoulder Season intern  
2022 Summer      *Hannah Cerezo (SUNY Orange)* - AC<sup>2</sup> summer intern and Near-term Ecological Forecasting intern  
                         *Lydia Sandoval (SUNY New Paltz)* - AC<sup>2</sup> summer intern and Near-term Ecological Forecasting intern  
                         *Selena Wyble (SUNY New Paltz)* - AC<sup>2</sup> summer intern and Near-term Ecological Forecasting intern  
                         *Rachel Reinking (Smith College)* - Near-term Ecological Forecasting intern  
                         *Paloma Estess (SUNY New Paltz)* – Student Undergraduate Research Experience (SURE)  
                         *Karen Santamaria (SUNY New Paltz)* – Summer volunteer  
2021 Summer      *Shelah Ballard (SUNY New Paltz)* – AC<sup>2</sup> summer intern  
                         *India Thomas (SUNY New Paltz)* – AC<sup>2</sup> summer intern  
                         *Julio Aguilar (SUNY New Paltz)* – AC<sup>2</sup> summer intern  
                         *Lissa Elzey (SUNY New Paltz)* – Kyncl Scholarship  
                         *Zoe Foery (SUNY New Paltz)* – Student Undergraduate Research Experience (SURE)  
2020 Summer      *Reed Williams (SUNY New Paltz)* – NYS Water Resources Institute Grant intern  
                         *Cassandra Roberts (Bridgewater College)* – Research Experience for Undergrads, Cary Institute of  
                         Ecosystem Studies  
                         *Jenna Rodriguez (SUNY New Paltz)* – AC<sup>2</sup> summer intern  
                         *Norman Reid (SUNY New Paltz)* – AC<sup>2</sup> summer intern, Kyncl Scholarship  
                         *Melissa Richard (SUNY New Paltz)* – AC<sup>2</sup> summer intern, Kyncl Scholarship  
                         *Kaitlyn Gonzalez (SUNY New Paltz)* – Kyncl Scholarship  
                         *Lissa Elzey (SUNY New Paltz)* – Student Undergraduate Research Experience (SURE)  
2019 Summer      *Lissa Elzey (SUNY New Paltz)* – AC<sup>2</sup> summer intern  
                         *Camilla Fermanian (SUNY Orange)* – AC<sup>2</sup> summer intern  
                         *Sarah Moser (Bard College)* – Research Experience for Undergrads, Cary Inst. Eco. Studies



2018 Summer *Katherine Paul (SUNY New Paltz)* – Summer Undergraduate Research Experience (SURE)  
*Elena Champagne (SUNY New Paltz)* – Summer Undergraduate Research Experience (SURE)  
*Heather Wander (SUNY New Paltz)* – NYS Water Resources Institute Grant intern  
*Sabrina Volponi (Bridgewater College)* – Research Experience for Undergrads, Cary Inst. Eco. Studies  
*Kari Dawson (Winston-Salem State University)* – Research Experience for Undergrads, Cary Inst. Eco. Studies  
*Brenna O'Brien (SUNY New Paltz)* – Summer Undergraduate Research Experience (SURE)  
*Vanessa Morgan (SUNY New Paltz)* – Environmental Data Initiative Intern, Univ. Of Wisconsin  
*Emma Bruno (SUNY New Paltz)* – Orange County Climate Smart Communities Intern

2017 Summer *Mei Schultz (Columbia University)* – Summer volunteer  
*Hailee Edwards (SUNY New Paltz)* – NYS Water Resources Institute Grant intern  
*Heather Wander (SUNY New Paltz)* – Summer Undergraduate Research Experience (SURE)  
*Nyoka Bigsby (SUNY New Paltz)* – AC<sup>2</sup> summer intern  
*Philesha Teape (SUNY New Paltz)* – AC<sup>2</sup> summer intern  
*Abigail Lewis (Pomona College)* – Research Experience for Undergrads, Cary Inst. Eco. Studies

2016 Summer *Hailee Edwards (SUNY New Paltz)* – AC<sup>2</sup> summer intern  
*Heather Wander (SUNY New Paltz)* – Summer Undergraduate Research Experience (SURE)  
*Tony Hollander (SUNY New Paltz)* – Summer Undergraduate Research Experience (SURE)  
*Kayla Reid (SUNY New Paltz)* – AC<sup>2</sup> summer intern  
*Mike Forcella (SUNY New Paltz)* – National Science Foundation Summer Internship

2015 Summer *Bryan Krebs (SUNY New Paltz)* – Summer Undergraduate Research Experience (SURE)  
*Angela Chen (SUNY New Paltz)* – Summer volunteer  
*Matthew Farragher (SUNY New Paltz)* – SUNY STEM passport intern  
*Bobbetta Davis (SUNY New Paltz)* – AC<sup>2</sup> summer intern  
*Anthony Nava (SUNY New Paltz)* – AC<sup>2</sup> summer intern  
*Brian Wilcove (SUNY New Paltz)* – Summer volunteer

2014 Summer *Bryan Krebs (SUNY New Paltz)* – Summer internship from National Science Foundation Research Opportunities Award  
*Erich Stern (SUNY New Paltz)* – Summer Internship from Water Resources Institute grant  
*Valerie Stanson (SUNY New Paltz)* – Summer Undergraduate Research Experience (SURE)  
*Steven Dimeglio (SUNY New Paltz)* – NYS Water Resources Institute Watershed Resiliency grant  
*Caitlyn Maceli (SUNY New Paltz)* – NYS Water Resources Institute Watershed Resiliency grant  
*Michael Forcella (SUNY New Paltz)* – NYS Water Resources Institute Watershed Resiliency grant  
*Kelsey Hillerud (SUNY New Paltz)* – NYS Water Resources Institute Watershed Resiliency grant  
*Lindsay Muir (SUNY New Paltz)* – NYS Water Resources Institute Watershed Resiliency grant

2013 Summer *Erich Stern (SUNY New Paltz)* – Summer Undergraduate Research Experience (SURE)  
*David Charifson (SUNY New Paltz)* – Research Technician  
*Valerie Stanson (SUNY New Paltz)* – Summer volunteer  
*Caitlyn Maceli (SUNY New Paltz)* – NYS Water Resources Institute Watershed Resiliency grant  
*Alexander LeTourneau (SUNY New Paltz)* – NYS Water Resources Institute Watershed Resiliency

2012 Summer *Steven Dimeglio (SUNY New Paltz)* – Summer Undergraduate Research Experience (SURE)  
*Emily Bialowas (Cornell University)* – Research Experience for Undergraduates at SUNY New Paltz  
*Andrea Miller (Unity College)* – Research Experience for Undergraduates at SUNY New Paltz  
*David Charifson (SUNY New Paltz)* – Summer Undergraduate Research Experience (SURE)  
*Isabella Oleksy* – Research Technician  
*Erich Stern (SUNY New Paltz)* – Summer volunteer

2011 Summer *Nathaniel Rigolino (SUNY New Paltz)* – Summer Undergraduate Research Experience (SURE)  
*Amalia Handler (Franklin and Marshall College)* – NSF Research Experience for Undergraduates  
*Isabella Oleksy (University of New Hampshire)* – NSF Research Experience for Undergraduates

2010 Summer *Laura Achterberg (University of Nebraska, Lincoln)* - NSF Research Experience for Undergraduates  
*Molly Redfield (Mount Holyoke College)* - NSF Research Experience for Undergraduates  
*Samantha Root (Bard College)* – Didymo project summer intern at SUNY New Paltz  
*Stephen DiFalco (SUNY New Paltz)* – Summer Undergraduate Research Experience (SURE)

2009 Summer *Teriko MacConnell (Newport Elementary School, New Hampshire)* – Research Experience for Teachers at Cary Institute of Ecosystem Studies  
*Nathan Camp (Kearsarge Regional Middle School, New Hampshire)* – Research Experience for Teachers at Cary Institute of Ecosystem Studies

2008 Summer *Laura Fox (Indiana University-Purdue University Indianapolis)* - Research assistant at Stroud Water Research Center

*Hanh Nguyen* (Dartmouth College) - Research Experience for Undergraduates at Stroud Water Research Center

*Laura Regester* (Trinity University, DC) - Research Experience for Undergraduates at Stroud Water Research Center

2007 Summer

*Jaclyn McIlwain* (University of Delaware) - Research Experience for Undergraduates at Stroud Water Research Center

*Maddie Winters* (Guilford College) - Research assistant at Stroud Water Research Center