

# ALEXANDER J. REISINGER

## CURRICULUM VITAE

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Soil and Water Sciences Department  
2181 McCarty Hall A, PO Box 110290  
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### RESEARCH INTERESTS

Biogeochemistry of aquatic ecosystems, urban soil and water quality, watershed-scale approaches to ecosystem ecology, emerging contaminants in urban environments

### EDUCATION

|       |  |              |      |
|-------|--|--------------|------|
| Ph.D. | University of Notre Dame, Notre Dame, IN | Biology      | 2015 |
| M.S.  | Kansas State University, Manhattan, KS   | Biology      | 2010 |
| B.S.  | University of Notre Dame, Notre Dame, IN | Env. Science | 2008 |

### APPOINTMENTS

2017 - Present Assistant Research Professor, Soil and Water Sciences Department, University of Florida (UF) | Institute of Food and Agricultural Sciences (IFAS)  
Affiliate Faculty: UF Center for Landscape Conservation and Ecology, UF Program for Resource Efficient Communities, UF Water Institute, UF School of Natural Resources and Environment

2016- 2017 Post-doctoral Researcher, Dept. of Biological Sciences, Central Michigan University, Advisor: Don Uzarski

2015- 2017 Post-doctoral Researcher, Cary Institute of Ecosystem Studies, Advisors: Emma J. Rosi- and Peter M. Groffman

2016 Visiting Professor of Biology, Division of Science, Mathematics and Computing, Bard College

2010- 2015 Graduate Research and Teaching Assistant, Dept. of Biological Sciences, Univ. of Notre Dame, Advisor: Jennifer L. Tank

2008- 2010 Graduate Teaching Assistant, Division of Biology, Kansas State University, Advisor: Walter K. Dodds

### GRANTS AWARDED

**Reisinger, A.J.**, M. Atkinson, E.Z. Bean, B. Iannone, M. Lusk, and A. Smyth. Biogeochemical effects of littoral shelf plants in stormwater ponds. \$16,429. 09/20 - 06/21. University of Florida Center for Land Use Efficiency. Reisinger is PI.

**Reisinger, A.J.** Field Vehicle to Complete Research and Extension Goals of the Urban Ecosystem Ecology Lab. \$35,000. 01/20 - 06/20. University of Florida Center for Land Use Efficiency. Reisinger is PI.

**Reisinger, A.J.** Muffle furnace to quantify organic matter content of soils and sediments from urban landscapes. \$10,130. 01/20 - 06/20. University of Florida Center for Land Use Efficiency. Reisinger is PI.

**Reisinger, A.J.**, E.Z. Bean, and M. Clark. Quantifying nitrogen leaching from residential soils in FL. \$5,000. 10/19 - 06/20, Florida Nursery Growers and Landscapers Association. Reisinger is PI.

**Reisinger, A.J.** Resistance and resilience of urban stream ecosystem functioning in response to extreme precipitation events. \$49,680. 01/19 - 12/20, University of Florida Agricultural Experiment Station. Reisinger is PI.

**Reisinger, A.J.**, E.Z. Bean, and M. Clark. Quantifying nitrogen leaching from residential soils in Alachua County, FL. \$28,985. 01/19 - 03/20, Alachua County Environmental Protection Department. Reisinger is PI.

- Reisinger, A.J.**, E. Bean, T. Clem, B. Iannone, and P. Jones. Compost topdressing as a sustainable management approach to multipurpose fields in Gainesville City Parks. \$7,367. 03/19 - 12/19, City of Gainesville Department of Parks, Recreation, and Cultural Affairs. Reisinger is PI.
- Rosi, E.J. **and others**. LTER: Baltimore Ecosystem Study: Synthesis of long-term studies of how multiple human and biophysical factors interact to drive ecological change of an urban ecosystem. Reisinger award: \$10,000. 12/18 - 11/21, NSF-DEB: 1855277. Reisinger is senior personnel.
- Reisinger, A.J.**, A.R. Smyth, E.Z. Bean, B. Iannone, M.G. Lusk. Effects of stormwater pond age on sediment nutrient fluxes in residential landscapes. \$28,800. 09/18 - 06/19, University of Florida Center for Landscape Conservation and Ecology. Reisinger is PI.
- Reisinger, L.S., **A.J. Reisinger**, and L. Pintor. RoL: FELS EAGER: Environmental heterogeneity drives intraspecific variation in animal personality and subsequent consequences for ecosystem functions. \$299,865 (UF portion = \$152,941). 08/18 - 08/20, NSF-DEB: 1838336. Reisinger is Co-PI.
- Reisinger, A.J.** Water quality and ecosystem functioning of urban streams. \$60,000 (\$15,000 per year for 4 years), 08/18-07/22. University of Florida Center for Landscape Conservation and Ecology Graduate Student Support grant. Reisinger is PI.
- Iannone, B., C. Adams, E. Bean, and **A.J. Reisinger**. Are stormwater ponds invasion vectors? Assessing the effects of an abundant engineered ecosystem on plant invasions across multiple spatial scales. \$87,100. 1/18 - 6/19, University of Florida Institute of Food and Agricultural Sciences Interdisciplinary Research on Invasive Species opportunity. Reisinger is Co-PI.
- Reisinger, A.J.**, J. Barrera, E. Bean, and B. Iannone. SHED cohort resource investment for strategic enhancement of research and extension capacity. \$48,856 (Reisinger share = \$12,214). 12/17 - 6/18, University of Florida Center for Landscape Conservation and Ecology. Reisinger is PI.
- Reisinger, A.J.**, and J.L. Tank. DISSERTATION RESEARCH: Quantifying the role of denitrification as a mechanism for inorganic nitrogen removal in Midwestern rivers. \$19,710. 07/13 - 06/15, NSF-DDIG. Reisinger is Co-PI due to NSF-DDIG application regulations.
- Reisinger, A.J.** and J.L. Tank. Nutrient Limitation and uptake rates in streams and rivers of the Greater Yellowstone Area. \$4,710. 06/13 - 05/14, University of Wyoming - National Parks Service. Reisinger is Co-PI due to application regulations.
- Reisinger, A.J.**, C. Vizza, S.G. Winikoff, M.M. Dee, and J.L. Tank. I. The roles of pH and cation concentration in apparent phosphate inhibition of stream biofilms and II. A new approach for assessing the effects of climate change on biofilm nutrient limitation. \$756. 04/2013 - 04/2014, University of Notre Dame Environmental Change Initiative. Reisinger is PI.

## GRANTS PENDING

- Reisinger, A.J.**, H. Khachatryan, H.D. Laughinghouse, P. Monaghan, O. Savchenko, M. Atkinson, E.Z. Bean, B.V. Iannone, S. Schmidt. DISES: Valuing and managing anthropized ecosystems: Primary and secondary services provided by stormwater ponds in urban landscapes. National Sciences Foundation DISES Program. \$1.6M requested. Submitted on 11/16/2020. Reisinger is PI.
- Reisinger, A.J.**, E.Z. Bean, and M.C. Clark. Quantifying nitrogen leaching from residential soils in Alachua County, FL Phase 2: Effects of different landscape management practices on nutrient leaching. \$41,814 requested. Submitted 02/15/2020. Reisinger is PI.
- Iannone, B.V., P. Monaghan, M. Atkinson, E.Z. Bean, M. Lusk, and **A.J. Reisinger**. Stormwater pond plantings: What are their impacts on water quality and what are the best strategies to promote stakeholder adoption of this feasible BMP? Tampa Bay Environmental Restoration Program. \$81,844 requested. Submitted on 03/09/2020. Reisinger is co-PI.
- Smyth, A.R., C. Angelini, **A.J. Reisinger**, S. Baker, P. Ifju, N. Dix, and K. Dietz. Using collaborative sciences to assess the current and potential role of shellfish in improving water quality. National Oceanic and Atmospheric Administration (NOAA): National Estuarine Research Reserves Science Collaborative Program. \$594,966 requested. Submitted on 04/16/2020. Reisinger is co-PI.

**Reisinger, A.J.**, J.R. Blaszczak, J.J. Kelly, M.J. Cohen, E.Z. Bean, and E.J. Rosi. Collaborative Research: Facing Extremes: How do changes in hydrochemical regimes alter resistance and resilience of lotic ecosystems to extreme events? National Science Foundation DEB-Ecosystems Program. \$1,313,635 Requested (UF Portion: \$686,473). Submitted on 5/21/2020. Reisinger is Lead PI.

Kinsman-Costello, L., A. Peralta, A.R. Smyth, M. Palta, J. Matthews, E. Bean, K. Clark, M. O'Driscoll, and **A.J. Reisinger**. Collaborative Research: Freshwater Salinization: Effects on Wetland Nutrient Biogeochemistry. National Science Foundation DEB-Ecosystems Program. UF Budget Request: \$808,593. Reisinger is Co-PI.

## **PUBLICATIONS**

**Key:** underlined = Reisinger as lead/senior author

**Bold** = self

& = undergraduate student mentored by Reisinger

§ = graduate student mentored by Reisinger

<sup>p</sup> = Post-doctoral associate mentored by Reisinger

28. Sinclair, J.S., L.S. Reisinger, C.R. Adams, E. Bean, **A.J. Reisinger**, and B.V. Iannone. *In Press*. Vegetation management and benthic macroinvertebrate communities in urban stormwater ponds: implications for regional biodiversity. *Urban Ecosystems*. doi: 10.1007/s11252-020-01072-5.
27. Warner, L.A., J. Diaz, C. Silvert, W. Hobbs, and **A.J. Reisinger**. *Published Online* 2020. Predicting Intentions to Engage in a Suite of Yard Fertilizer Behaviors: Integrated Insights from the Diffusion of Innovations, Theory of Planned Behavior, and Contextual Factors. *Society & Natural Resources*. doi: 10.1080/084931920.2020.1831118.
26. Almeida, R.M., S.K. Hamilton, E.J. Rosi, N. Barros, C.R.C. Doria, A.S. Flecker, A.S. Fleischmann, **A.J. Reisinger**, and F. Roland. 2020. Hydropeaking operations of two run-of-river mega-dams alter downstream hydrology of the largest Amazon tributary. *Frontiers in Environmental Science* 8:120. doi: 10.3389/fenvs.2020.00120.
25. Harrison, A.M., **A.J. Reisinger**, M.J. Cooper, V.J. Brady, J.J.H. Ciborowski, K.E. O'Reilly, C.R. Ruetz III, D.A. Wilcox, and D.G. Uzarski. 2020. A basin-wide survey of coastal wetlands of the Laurentian Great Lakes: Development and comparison of water quality indices. *Wetlands* 40:465-477. doi: 10.1007/s13157-019-01198-z.
24. Sinclair, J.S., C.R. Adams, **A.J. Reisinger**, E. Bean, L.S. Reisinger, A.L. Holmes, and B.V. Iannone. 2020. High similarity and management-driven differences in the traits of a diverse pool of invasive stormwater pond plants. *Landscape and Urban Planning* 201:103839. doi: 10.1016/j.landurbplan.2020.103839.
23. Sinclair, J.S., **A.J. Reisinger**, E. Bean, C.R. Adams, L.S. Reisinger, and B.V. Iannone. 2020. Stormwater ponds: an overlooked but plentiful designer ecosystem provides invasive plant habitat in a subtropical region (Florida, USA). *Science of the Total Environment* 711:135133. doi: 10.1016/j.scitotenv.2019.135133.
22. Gallagher, M.T.<sup>&</sup>, and **A.J. Reisinger**. 2020. Effects of ciprofloxacin on metabolic activity and algal biomass of urban stream biofilms. *Science of the Total Environment* 706:135728. doi: 10.1016/j.scitotenv.2019.135728.
21. Riis, T., J.L. Tank, **A.J. Reisinger**, A. Aubeneau, K. Roche, P.S. Levi, A. Baattrup-Pedersen, A.B. Alnoe, and D. Bolster. 2020. Riverine macrophytes control seasonal nutrient uptake via both physical and biological pathways. *Freshwater Biology* 65:178-192. doi: 10.1111/fwb.13412.
20. Almeida, R.M., S.K. Hamilton, E.J. Rosi, J. Durval Arantes, N. Barros, G. Boemer, A. Gripp, V.L.M. Huszar, P.C. Junger, M. Lima, F. Pacheco, D. Carvalho, **A.J. Reisinger**, L.H.S. Silva, and F. Roland. 2019. Limnological effects of a large Amazonian run-of-river dam on the main river and drowned tributary valleys. *Scientific Reports* 9:16846. doi: 10.1038/s41598-019-53060-1
19. Richmond, E.K., E.J. Rosi, **A.J. Reisinger**, B.R. Hanrahan, R.M. Thompson, and M.R. Grace. 2019. Influences of the antidepressant fluoxetine on stream ecosystem function and aquatic insect emergence at environmentally realistic concentrations. *Journal of Freshwater Ecology* 34:513-531. doi: 10.1080/02705060.2019.1629546

18. **Reisinger, A.J.**, T.R. Doody, P.M. Groffman, S.S. Kaushal, and E.J. Rosi. 2019. Seeing the light: Urban stream restoration affects stream metabolism and nitrate uptake via changes in canopy cover. *Ecological Applications* 29:e01941. doi: 10.1002/eap.1941
17. Schock, N.T., **A.J. Reisinger**, L.S. Reisinger, M.J. Cooper, J.J.H. Cibrowski, T.M. Gehring, A. Moerke, and D.G. Uzarski. 2019. Relationships between the distribution of the invasive faucet snail (*Bithynia tentaculata*) and environmental factors in Laurentian Great Lakes coastal wetlands. *Biological Invasions* 21:2613-2628. doi: 10.1007/s10530-019-02000-1
16. **Reisinger, A.J.**, E. Woytowitz, E. Majcher, E.J. Rosi, K.T. Belt, J.M. Duncan, S.S. Kaushal, and P.M. Groffman. 2019. Changes in long-term water quality of Baltimore streams are associated with both gray and green infrastructure. *Limnology and Oceanography* 64:S60-S76. doi: 10.1002/lno.10947.
15. Almeida, R.M., B.A. Han, **A.J. Reisinger**, C. Kagemann<sup>&</sup>, and E.J. Rosi. 2018. High mortality in aquatic predators of mosquito larvae caused by exposure to insect repellent. *Biology Letters* 14:20180526. doi: 10.1098/rsbl.2018.0526
14. Tank, J.L., E. Martí, T. Riis, D. von Schiller, **A.J. Reisinger**, W.K. Dodds, M.R. Whiles, L.R. Ashkenas, W.B. Bowden, B.M. Norman, S.M. Collins, C.L. Crenshaw, T.A. Cowl, N.A. Griffiths, N.B. Grimm, S.K. Hamilton, S.L. Johnson, W.H. McDowell, E.J. Rosi-Marshall, K.S. Simon, S.A. Thomas, and J.R. Webster. Partitioning assimilatory nitrogen uptake in streams: an analysis of stable isotope tracer additions across continents. 2018. *Ecological Monographs* 88:120-138. doi: 10.1002/ecm.1280
13. Rosi, E.J., H.A. Bechtold, D. Snow, M. Rojas, **A.J. Reisinger**, and J.J. Kelly. 2018. Urban stream microbial communities show resistance to pharmaceutical exposure. *Ecosphere* 9: e02041. Doi: 10.1002/ecs2.2041.
12. Langer, T.A., M.J. Cooper, L.S. Reisinger, **A.J. Reisinger**, and D.G. Uzarski. 2018. Water depth and lake-wide water level fluctuation influence on  $\alpha$ - and  $\beta$ -diversity of coastal wetland fish communities. *Journal of Great Lakes Research* 44:70-76. doi: 10.1016/j.jglr.2017.11.001
11. Ye, S., **A.J. Reisinger**, J.L. Tank, M.A. Baker, R.O. Hall, E.J. Rosi-Marshall, and M. Sivapalan. 2017. Scaling dissolved nutrient removal in river networks: A comparative modeling investigation. *Water Resources Research* 53:9623-9641. doi: 10.1002/2017WR020858
10. Richmond, E.K., M.R. Grace, J.J. Kelly, **A.J. Reisinger**, E.J. Rosi, and D.M. Walters. Pharmaceuticals and personal care products (PPCPs) are ecological disrupting compounds (EcoDC). 2017. *Elementa Science of the Anthropocene* 5:66. doi: 10.1525/elementa.252
9. **Reisinger, A.J.**, E.J. Rosi, H.A. Bechtold, T.R. Doody, S.S. Kaushal, and P.M. Groffman. 2017. Recovery and resilience of urban stream metabolism following Superstorm Sandy and other floods. *Ecosphere* 8:e01776. doi: 10.1002/ecs2.1776.
8. Guy-Haim, T., H. Alexander, T.W. Bell, R.L. Bier, L. Bortolotti, C. Briseño-Avena, X. Dong, A.M. Flanagan, J. Grosse, L. Grossmann, S. Hasnain, R. Hovel, C.A. Johnston, D.R. Miller, M. Muscarella, A. Noto, **A.J. Reisinger**, H.J. Smith, and K. Stamieszkin. 2017. What are the type, direction, and strength of species, community, and ecosystem responses to warming in aquatic mesocosm studies and their dependency on experimental characteristics? A systematic review protocol. *Environmental Evidence* 6:6. doi: 10.1186/s13750-017-0084-0.
7. **Reisinger, A.J.**, P.M. Groffman, and E.J. Rosi-Marshall. 2016. Nitrogen cycling process rates across key urban ecosystems. *FEMS Microbiology Ecology*. 92:fiw198. doi: 10.1093/femsec/fiw198.
6. **Reisinger, A.J.**, J.L. Tank, T.J. Hoellein, and R.O. Hall. 2016. Sediment, water column, and open-channel denitrification in rivers measured using membrane-inlet mass spectrometry. *Journal of Geophysical Research: Biogeosciences* 121:1258-1274. doi: 10.1002/2015JG003261
5. **Reisinger, A.J.**, J.L. Tank, and M.M. Dee<sup>&</sup>. 2016. Regional and seasonal variation in nutrient limitation of riverine benthic biofilms. *Freshwater Science* 35:474-489. doi: 10.1086/685829.
4. **Reisinger, A.J.**, J.L. Tank, E.J. Rosi-Marshall, R.O. Hall, Jr., and M.A. Baker. 2015. The varying role of water column nutrient uptake along river continua in contrasting landscapes. *Biogeochemistry* 125:115-131. doi: 10.1007/s10533-015-0118-z.

3. **Reisinger, A.J.**, D.T. Chaloner, J. Ruuegg, S.D. Tiegs, and G.A. Lamberti. 2013. Effects of spawning Pacific salmon on the isotopic composition of biota differ among southeast Alaska streams. *Freshwater Biology* 58:938-950. doi: 10.1111/fwb.12098
2. **Reisinger, A.J.**, J.M. Blair, C.W. Rice, and W.K. Dodds. 2013. Woody vegetation removal stimulates riparian and benthic denitrification in tallgrass prairie. *Ecosystems* 16:547-560. doi: 10.1007/s10021-012-9630-3.
1. **Reisinger, A.J.**, D.L. Presuma<sup>&</sup>, K.B. Gido, and W.K. Dodds. 2011. Direct and indirect effects of central stoneroller (*Campostoma anomalum*) on mesocosm recovery following a flood: Can macroconsumers affect denitrification? *Journal of the North American Benthological Society* 30:840-852. doi: 10.1899/10-169.1

## **PEER REVIEWED EXTENSION PUBLICATIONS**

*Unless otherwise noted, Extension publications are available through the Florida Electronic Data Information Service (EDIS) at <http://edis.ifas.ufl.edu>.*

18. **Reisinger, A.J.**, M.G. Lusk, and A.R. Smyth. 2020. Sources and Transformations of Nitrogen in Urban Landscapes. <https://edis.ifas.ufl.edu/ss681>
17. **Reisinger, A.J.** 2020. How to Properly Dispose of Unwanted Medications. <https://edis.ifas.ufl.edu>
16. Warner, L.A., E. Momol, C. Lewis, T. Wichman, W. Wilber, and **A.J. Reisinger**. 2020. Floridians' Engagement in Landscape Best Practices to Protect Water Resources: Information from a 2018 Survey. <http://edis.ifas.ufl.edu/wc345>
15. Shober, A.L., **A.J. Reisinger**, M.G. Lusk, and S. A. Scalera. 2019. Soils and Fertilizers for Master Gardeners: Soil Physical Characteristics. <http://edis.ifas.ufl.edu/mg458>
14. Shober, A.L., C. Wiese, G.S. Toor, and **A.J. Reisinger**. (Initial publication date: 2010; Most recent revision: 2019). Preplant Soil Assessment for New Residential Landscapes in Florida. <http://edis.ifas.ufl.edu/ss534>
13. Scalera, S., **A.J. Reisinger**, and M. Lusk. 2019. The importance of soil health for residential landscapes. <http://edis.ifas.ufl.edu/ss664>
12. McGuire, M., Y-Y. Yang, I.A. Rodriguez-Jorquera, G.S. Toor, and **A.J. Reisinger**. (Initial publication date: 2015; Most recent revision: 2019). Contaminants in the Urban Environment: Microplastics. <http://edis.ifas.ufl.edu/ss649>
11. Rodriguez-Jorquera, I.A., G.S. Toor, and **A.J. Reisinger**. (Initial publication date: 2014; Most recent revision: 2018). Contaminants in the Urban Environment: Perfluoroalkyl Substances. <http://edis.ifas.ufl.edu/ss631>  
*Spanish Translation:* Rodriguez-Jorquera, I.A., G.S. Toor, and **A.J. Reisinger**. (Initial publication date: 2014; Most recent revision: 2018). Contaminantes en el Medio Ambiente Urbano: Los Perfluoroalquilos. <http://edis.ifas.ufl.edu/ss644>
10. Yang, Y-Y., G.S. Toor, and **A.J. Reisinger**. (Initial publication date: 2015; Most recent revision: 2018). Contaminants in the Urban Environment: Pharmaceuticals and Personal Care Products (PPCPs) -- Part 1. <http://edis.ifas.ufl.edu/ss632>
9. Yang, Y-Y., G.S. Toor, and **A.J. Reisinger**. (Initial publication date: 2015; Most recent revision: 2018). Contaminants in the Urban Environment: Pharmaceuticals and Personal Care Products (PPCPs) -- Part 2. <http://edis.ifas.ufl.edu/ss633>
8. Shober, A.L. and **A.J. Reisinger**. (Initial publication date: 2012; Most recent revision: 2018). Drinking Water Source Protection in the Tampa Bay Region: A Guide for Government Officials. <http://edis.ifas.ufl.edu/ss524>
7. Shober, A.L. and **A.J. Reisinger**. (Initial publication date: 2012; Most recent revision: 2018). Drinking Water Source Protection in the Tampa Bay Region: A Guide for Homeowners. <http://edis.ifas.ufl.edu/ss493>
6. Shober, A.L., G.C. Denny, **A.J. Reisinger**, and E.Z. Bean. (Initial publication date: 2010; Most recent revision: 2018). Soil Compaction in the Urban Landscape. <http://edis.ifas.ufl.edu/ss529>

5. Loper, S., A.L. Shober, and **A.J. Reisinger**. (Initial publication date: 2008; Most recent revision: 2018). Soils and Fertilizers for Master Gardeners: Glossary of Soil and Fertilizer Terms. <http://edis.ifas.ufl.edu/mg457>
4. Toor, G.S., A.L. Shober, and **A.J. Reisinger**. (Initial publication date: 2008; Most recent revision: 2018). Soils and Fertilizers for Master Gardeners: Soil Organic Matter and Organic Amendments. <http://edis.ifas.ufl.edu/mg454>
3. Shober, A.L., and **A.J. Reisinger**. (Initial publication date: 2008; Most recent revision: 2018). Soils and Fertilizers for Master Gardeners: Tackling Soil Salinity Problems in the Home Landscape. <http://edis.ifas.ufl.edu/mg447>
2. Shober, A.L., and **A.J. Reisinger**. (Initial publication date: 2008; Most recent revision: 2018). Soils and Fertilizers for Master Gardeners: The Florida Gardener's Guide to Landscape Fertilizers. <http://edis.ifas.ufl.edu/mg448>
1. Toor, G.S., A.L. Shober, and **A.J. Reisinger**. (Initial publication date: 2008; Most recent revision: 2018). Soils and Fertilizers for Master Gardeners: Urban Soils and Their Management Issues. <http://edis.ifas.ufl.edu/mg456>

### **NON-PEER REVIEWED ARTICLES**

5. **Reisinger, A.J.**, S.P. Hohman<sup>g</sup>, A.R. Smyth, and E.Z. Bean. 2019. Healthy ponds for healthy environments. *Vegetable and Specialty Crop News* Newsletter. <http://vsnews.com/healthy-ponds-for-healthy-environments/>
4. Hohman, S.<sup>g</sup>, A.R. Smyth, and **A.J. Reisinger**. 2019. Improving our Understanding of Miami-Dade's Stormwater Ponds. Miami-Dade Extension Connection Summer 2019. [http://sfyl.ifas.ufl.edu/media/sfylifasufledu/miami-dade/newsletters/ExtensionConnection\\_Summer\\_2019.pdf](http://sfyl.ifas.ufl.edu/media/sfylifasufledu/miami-dade/newsletters/ExtensionConnection_Summer_2019.pdf)
3. Majcher, E.H., E.L. Woytowitz, **A.J. Reisinger**, and P.M. Goffman. 2018. Factors affecting long-term trends in surface water quality in the Gwynns Falls watershed, Baltimore City and County, Maryland, 1998-2016: U.S. Geological Survey Open-File Report 2018-1038, 27 p., <https://doi.org/10.3133/ofr20181038>.
2. Kelly, P., T. Bell, **A.J. Reisinger**, T. Spanbauer, L. Bortolotti, J. Bentrup, C. Briseño-Avena, X. Dong, A. Flanagan, E. Follette, J. Grosse, T. Guy-Haim, M. Holgerson, R. Hovel, J. Luo, N. Millette, A. Mine, M. Muscarella, S. Oliver, and H. Smith. 2017. Ecological Dissertations in Aquatic Sciences: An excellent networking opportunity for early career aquatic scientists. *Limnology and Oceanography Bulletin* 26:25-30.
1. **Reisinger, A.J.**, and J.L. Tank. 2013. Assessing biofilm nutrient limitation as an indicator of water quality in the Teton River. Report for the Idaho Department of Environmental Quality.

### **BOOK CHAPTERS**

1. Tank, J.L., **A.J. Reisinger**, and E.J. Rosi-Marshall. 2017. Nutrient Limitation and Uptake. Chapter 31, pages 147-171 In: *Methods in Stream Ecology Volume 2: Ecosystem Function (3<sup>rd</sup> edn)*, eds F.R. Hauer and G.A. Lamberti. Academic Press

### **AWARDS, FELLOWSHIPS, AND HONORS**

- Center for Environmental Science and Technology (CEST) Bayer Predoctoral Fellowship, University of Notre Dame. Advisor: J. L. Tank. 2014 (received twice, separately for spring and fall 2014).
- General Endowment Fund Award, Society for Freshwater Science. Advisor: J. L. Tank. 2013.
- Center for Aquatic Conservation Graduate Fellowship, Environmental Change Initiative, University of Notre Dame. Advisor: J. L. Tank. 2012 (for spring 2013).
- Downes Memorial Professional Development Grant, University of Notre Dame. Advisor: J. L. Tank. 2010.
- GLOBES-IGERT Fellowship, University of Notre Dame. Advisor: J. L. Tank. 2010 – 2015.
- Arthur J. Schmitt Presidential Fellowship, University of Notre Dame. Advisor: J. L. Tank. 2010 – 2015.
- Biology Graduate Student Association Travel Grant, Kansas State University. Advisor: W. K. Dodds. 2010.

Office of Research Presidential Circle Undergraduate Research Grant, University of Notre Dame.

Advisors: D. T. Chaloner and G. A. Lamberti. 2008.

McDonald Summer Undergraduate Research Fellowship, University of Notre Dame. Advisors: D. T. Chaloner and G. A. Lamberti. 2007.

### **STUDENT AWARDS, FELLOWSHIPS, AND HONORS**

- A. Goeckner<sup>G</sup>, AGU Tiny Grant awarded for #HaikuYourResearch, Water Quality Technical Committee for the American Geophysical Union, \$75.
- A. Siders<sup>G</sup>, Biogeochemistry Graduate Fellowship, Soil and Water Sciences Department, UF|IFAS, \$1,500, 2020.
- E. Taylor<sup>G</sup>, William Robertson Fellowship, Soil and Water Sciences Department, UF|IFAS, \$1,000, 2020.
- A. Goeckner<sup>G</sup>, Roy Likins Scholarship, Florida Section of the American Water Works Association, \$3,000, 2020.
- A. Goeckner<sup>G</sup>, Stormwater Scholarship, Florida Stormwater Association Educational Foundation, \$2,000, 2020.
- A. Goeckner<sup>G</sup>, Graduate School Fellowship Award, University of Florida Graduate School, tuition waiver (~\$10,000/yr), stipend (\$31,000/yr), and benefits (~\$3,000/yr) stipend for four years, 2020 - 2024, total award: \$180,000.
- C. Harris<sup>G</sup>, Grinter Fellowship, University of Florida Graduate School, \$2,333, 2020.
- E. Taylor<sup>G</sup>, Grinter Fellowship, University of Florida Graduate School, \$2,333, 2020.
- E. Taylor<sup>G</sup>, General Endowment Fund Scholarship, Society for Freshwater Sciences, \$1,000, 2020.
- S. Hohman<sup>G</sup>, Ben Skulnick Fellowship, Soil and Water Sciences Department, UF|IFAS, \$1,000, 2019.
- A. Siders<sup>G</sup>, William Robertson Fellowship, Soil and Water Sciences Department, UF|IFAS, \$1,000, 2019.
- A. Siders<sup>G</sup>, College of Agriculture and Life Sciences Scholarship, University of Florida College of Agriculture and Life Sciences, \$2000, 2019.
- E. Taylor<sup>G</sup>, Grinter Fellowship, University of Florida Graduate School, \$2,200, 2019.
- E. Taylor<sup>G</sup>, Jim Roberts Scholarship from the National Association for Environmental Professionals, \$1,000, 2019.
- E. Taylor<sup>G</sup>, UF Graduate Student Council Travel Grant for attending the 2019 Society for Freshwater Science Annual Meeting, \$350, 2019.
- E. Taylor<sup>G</sup>, UF|IFAS Graduate Student Travel Grant for attending the 2019 Society for Freshwater Science Annual Meeting, \$250, 2019.
- S. Hohman<sup>G</sup>, UF|IFAS Graduate Student Travel Grant for attending the 2019 Society for Freshwater Science Annual Meeting, \$250, 2019.
- E. Taylor<sup>G</sup>, Fundamentals of Ecosystem Ecology workshop participant, Cary Institute of Ecosystem Studies, 2019.
- M. Gallagher<sup>G</sup>, American Geophysical Union Fall Student Travel Grant, \$500, 2018.
- M. Gallagher<sup>G</sup>, Gulf Coast Undergraduate Research Symposium (GCURS) Travel Award, Rice University, \$1,000, 2018.

### **INVITED SEMINARS**

- 2019 Indian River Lagoon Research Institute, Florida Institute of Technology, Melbourne, FL, USA
- 2018 University of Florida Soil and Water Sciences Department Annual Research Forum, Gainesville, FL, USA
- 2017 Annis Water Resources Institute, Grand Valley State University, Muskegon, MI, USA
- 2016 Stroud Water Research Center, Avondale, PA, USA
- 2016 Environmental Change Initiative, University of Notre Dame, Notre Dame, IN, USA
- 2016 University of Nebraska, Lincoln, NE, USA
- 2016 Towson University, Towson, MD, USA
- 2016 University of Florida, Gainesville, FL, USA
- 2016 Central Michigan University Biological Station, Beaver Island, MI, USA
- 2016 University of Missouri, Columbia, MO, USA
- 2016 *Schoharie Watershed Month Event: Local Stewardship Lectures*, Elka Park, NY, USA

2015 University of Nebraska, Lincoln, NE, USA

### **SYNERGISTIC ACTIVITIES AND SERVICE**

Member, University of Florida Water Institute Hydrological Sciences Academic Concentration Faculty Advisory Committee (2019 - Present)

Member, University of Florida | IFAS Diversity and Inclusion Committee (2019 - Present)

Organizer, University of Florida | IFAS County Extension In-service Trainings and outreach workshops. From 2017 - present I have given Extension presentations reaching 665 individuals for 1,071 contact hours.

Member, Editorial Review Board, *Biogeochemistry* (2017 - Present)

Member, Editorial Advisory Board, *Watershed Ecology and the Environment* (2017 - present)

Member, Publications Committee, Society for Freshwater Science (2018 - Present)

Lead Organizer, "Novel stressors and novel ecosystems: Ecological processes across a range of urban freshwater ecosystems" - Special Session at the 2019 Society for Freshwater Sciences (SFS) Annual Meeting in Salt Lake City, UT.

Lead Organizer, "Cities and streams: What are the biogeochemical symptoms of the urban stream syndrome?" - Special Session at the 2016 SFS Annual Meeting in Sacramento, CA

Member, Annual Meeting Committee for the 2019 SFS Annual Meeting in Salt Lake City, UT (2018 - 2019)

Member, Annual Meeting Committee for the 2015 SFS Annual Meeting in Milwaukee, WI, Graduate Student Representative (2013 - 2015)

Member, Board of Directors, SFS, Graduate Student Representative (2013 - 2014)

Chair, Graduate Resources Committee (GRC) for SFS (2012 - 2013)

Chair, Live Auction Committee for the GRC at the Louisville, KY SFS Annual Meeting (2011 - 2012)

Member, Student Mentor Mixer Committee for the GRC at SFS Annual Meeting (2011 - 2012)

Graduate Student Liaison for INSTARS, an SFS undergraduate mentoring group for underrepresented groups (2011 - 2012)

Graduate Student Chair, Ecosystem Ecologist and Watershed Modeler Search Committee, Dept. of Biological Sciences, University of Notre Dame (2011)

Co-organizer, South Bend Science Café - a monthly informal seminar series to bring scientific knowledge to the general public (2010 - 2012)

Journal ad-hoc reviewer: I have completed 67 reviews across 27 different peer-reviewed journals

Proposal reviews:

|                  |   |
|------------------|---|
| 2019-2020        | National Science Foundation reviewer                              |
| 2019             | North Carolina Water Resources Research Institute ad hoc reviewer |
| 2018             | Illinois Water Resources Center ad hoc reviewer                   |
| 2018-2019        | German Research Foundation (DFG) ad hoc reviewer                  |
| 2015, 2017, 2020 | National Science Foundation ad hoc reviewer                       |

### **TEACHING EXPERIENCE**

Co-Instructor (2019) University of Florida  
Seminar: Sustainable Human and Ecological Development  
(graduate enrollment = 5)

Guest Lecturing (2017 - present) University of Florida  
Guest lecturer for 7 separate courses within UF|IFAS and the UF College of Engineering (graduate and undergraduate average enrollment = 16)

Instructor (2016) Cary Institute of Ecosystem Studies  
Research Experience for Undergraduates Scientific Writing Workshop  
(undergraduate summer REU students, enrollment = 8)

Visiting Professor (2016) Division of Science, Mathematics, and Computing, Bard College,  
Current Issues in Ecosystem Ecology (undergraduate, enrollment = 10)



|                             |   |
|-----------------------------|---|
| Guest Lecturer              | (2016) Cary Institute of Ecosystem Studies<br>Fundamentals of Ecosystem Ecology (graduate, enrollment = 15)                               |
| Visiting Lecturer           | (2013) Department of Plant Biology, Aarhus University, Denmark<br>Nitrogen Dynamics in Streams (graduate, enrollment = 15)                |
| Guest Lecturer              | (2012) Department of Biological Sciences, Univ. of Notre Dame<br>Stream Ecology (undergraduate and graduate, enrollment = 12)             |
| Graduate Coordinator        | (2011-2014) Department of Biological Sciences, Univ. of Notre Dame<br>Biology Friday Afternoon Seminar Series (graduate, enrollment=30)   |
| Graduate Teaching Assistant | (2012) Department of Biological Sciences, Univ. of Notre Dame<br>Stream Ecology Laboratory (undergraduate and graduate,<br>enrollment=12) |
| Graduate Teaching Assistant | (2012) Department of Biological Sciences, Univ. of Notre Dame<br>Biostatistics Laboratory (undergraduate, enrollment=25)                  |
| Graduate Teaching Assistant | (2008-2010) Division of Biology, Kansas State University<br>Organismic Biology Laboratory (undergraduate, enrollment=50)                  |

### **CONFERENCE PRESENTATIONS**

**Key:** Unless otherwise noted, the first author is the lead author

**Bold** = self

<sup>&</sup> = undergraduate student mentored by Reisinger

<sup>g</sup> = graduate student mentored by Reisinger

<sup>p</sup> = Post-doctoral associate mentored by Reisinger

87. Barnett, C.P., T.E. Suites, T.D. Sheppard, P.N. Beattie, J.L. Loizzo, L.A. Warner, J.M. Diaz, **A.J. Reisinger**, and A.C. Siders<sup>G</sup>. Youth's connectedness to water through a manatee-focused electronic field trip. Poster. Southern Region American Association for Agricultural Education Conference. Virtual, February 2021.
86. Lin, L, **A.J. Reisinger**, E. Rosi, P.M. Groffman, and L.E. Band. 2020. Evaluating stream restoration metabolism and nitrogen retention at Baltimore, MD. Annual Meeting of the American Geophysical Union, San Francisco, CA, December 2020 (Virtual???)
85. **Reisinger, A.J.**, E. Taylor<sup>G</sup>, J.R. Blaszcak, M.J. Cohen, and E.J. Rosi. 2020. Stream metabolic regimes across an urbanization gradient. Annual Meeting of the Baltimore Ecosystem Study, Baltimore, MD, October 2020 (Virtual).
84. Fork, M.L., J. Fick, **A.J. Reisinger**, and E.J. Rosi. 2020. Watershed mass balances of pharmaceuticals in Baltimore. Annual Meeting of the Baltimore Ecosystem Study, Baltimore, MD, October 2020 (Virtual).
83. Aviles, D., S.J. Smidt, and **A.J. Reisinger**. 2020. Evaluating water quality impacts of fertilizer ordinances in Florida. (Poster). Annual Meeting of the Geological Society of America. Virtual Presentation due to COVID-19. October 2020.
82. **Reisinger, A.J.**, J.R. Blaszcak, M.J. Cohen, M.L. Fork<sup>p</sup>, P.M. Groffman, E.A. Taylor<sup>g</sup>, and E.J. Rosi. 2020. Using metabolic flashiness to assess hydrometabolic regimes of urban streams in Baltimore, Maryland, USA. Joint Annual Meeting of the Association for the Sciences of Limnology and Oceanography and the Society for Freshwater Science, Madison, WI, June 2020. \*Presentation was canceled due to COVID-19.
81. Taylor, E.A.<sup>G</sup>, J. Hosen, and **A.J. Reisinger**. 2020. Recovery of energy cycling following hydrologic disturbances in sub-tropical urban streams. Joint Annual Meeting of the Association for the Sciences of Limnology and Oceanography and the Society for Freshwater Science, Madison, WI, June 2020. \*Presentation was canceled due to COVID-19.
80. Hohman, S.P.<sup>g</sup>, A.R. Smyth, E.Z. Bean, S.T. Howley<sup>&</sup>, and **A.J. Reisinger**. 2020. Quantifying mechanisms driving nutrient dynamics in stormwater ponds across an age gradient. Joint Annual

- Meeting of the Association for the Sciences of Limnology and Oceanography and the Society for Freshwater Science, Madison, WI, June 2020. *\*Presentation was canceled due to COVID-19.*
79. Siders, A.C.<sup>§</sup>, G.W. Hopper, K.B. Gido, **A.J. Reisinger**, and M.R. Whiles. 2020. Abiotic and biotic controls on aquatic insect emergence from prairie stream refugia during drought conditions. Joint Annual Meeting of the Association for the Sciences of Limnology and Oceanography and the Society for Freshwater Science, Madison, WI, June 2020. *\*Presentation was canceled due to COVID-19.*
  78. Scarasso, M.A., B. Kabalan, **A.J. Reisinger**, L. Reisinger, and L.M. Pintor. 2020. The effects of predation pressure and latitude on intraspecific behavioral trait variation in rusty crayfish. Joint Annual Meeting of the Association for the Sciences of Limnology and Oceanography and the Society for Freshwater Science, Madison, WI, June 2020. *\*Presentation was canceled due to COVID-19.*
  77. Kabalan, B., **A.J. Reisinger**, L. Pintor, M. Scarasso, and L. Reisinger. 2020. Impacts of intraspecific variation in crayfish behavior on stream ecosystem functions. Joint Annual Meeting of the Association for the Sciences of Limnology and Oceanography and the Society for Freshwater Science, Madison, WI, June 2020. *\*Presentation was canceled due to COVID-19.*
  76. Fork, M.L., **A.J. Reisinger**, P.M. Groffman, J. Fick, and E.J. Rosi. 2020. Concentrations and loads of pharmaceuticals over one year in streams across an urbanization gradient. Joint Annual Meeting of the Association for the Sciences of Limnology and Oceanography and the Society for Freshwater Science, Madison, WI, June 2020. *\*Presentation was canceled due to COVID-19.*
  75. **Reisinger, A.J.**, E.Z. Bean, M.W. Clark, and E.S. Williams. 2020. Digging holes in people's yards: Quantifying nitrogen leaching from residential soils in Alachua County, FL. University of Florida Water Institute 2020 Symposium. Gainesville, FL, February 2020.
  74. Goeckner, A., M. Lusk, **A.J. Reisinger**, J. Hosen, and J. Smoak. 2020. Carbon dynamics of urban stormwater ponds: Burial, Greenhouse Gas Flux, and DOM Quality. (Poster). University of Florida Water Institute 2020 Symposium. Gainesville, FL, February 2020. *\*Awarded best student poster.*
  73. Taylor E.A.<sup>§</sup>, J. Hosen, and **A.J. Reisinger**. 2020. Recovery of energy cycling following hydrologic disturbances in sub-tropical urban streams. (Poster). University of Florida Water Institute 2020 Symposium. Gainesville, FL, February 2020.
  72. Siders, A.C., G. Hooper, K. Gido, **A.J. Reisinger**, and M.R. Whiles. 2020. Abiotic and biotic controls on aquatic insect emergence from prairies stream refugia during drought conditions in a tallgrass prairie stream. University of Florida Water Institute 2020 Symposium. Gainesville, FL, February 2020.
  71. Hohman, S.<sup>§</sup>, A.R. Smyth, E. Bean, and **A.J. Reisinger**. 2020. Quantifying mechanisms driving nutrient dynamics in stormwater ponds across an age gradient. University of Florida Water Institute 2020 Symposium. Gainesville, FL, February 2020.
  70. K. Hess, **A.J. Reisinger**, and B. Iannone. 2020. Are detention ponds protecting urban depressional wetlands? University of Florida Water Institute 2020 Symposium. Gainesville, FL, February 2020.
  69. Atkinson, M., B. Iannone, M. Lusk, P. Monaghan, E. Bean, and **A.J. Reisinger**. 2020. Planting stormwater ponds: Determining the best management practices for ornamental plants in buffer zone areas. University of Florida Water Institute 2020 Symposium. Gainesville, FL, February 2020.
  68. Iannone, B., M. Atkinson, E. Bean, M. Lusk, P. Monaghan, and **A.J. Reisinger**. 2020. Stormwater pond plantings as a strategy for improving water quality. University of Florida Water Institute 2020 Symposium. Gainesville, FL, February 2020.
  67. Fork, M.L., **A.J. Reisinger**, P.M. Groffman, and E.J. Rosi. 2020. Patterns and changes in multiple solutes over 20 years of weekly measurements in Baltimore streams. (Poster). 5<sup>th</sup> Symposium on Urban Stream Ecology. Austin, TX, February 2020.

66. Taylor E.A.<sup>§</sup>, J. Hosen, and **A.J. Reisinger**. 2020. Recovery of energy cycling following hydrologic disturbances in sub-tropical urban streams. (Poster). 5<sup>th</sup> Symposium on Urban Stream Ecology. Austin, TX, February 2020.
65. Lin, L., **A.J. Reisinger**, E. Rosi, P. Groffman, and L.E. Band. Evaluating instream restoration effectiveness in reducing nitrogen export from an urban catchment with a coupled data-modeling approach. (Poster). American Geophysical Union Fall Meeting 2019. San Francisco, CA, December 2019.
64. Brophy, T., S. Hohman<sup>§</sup>, **A.J. Reisinger**, E. Bean, and S. Smidt. Geospatial analysis of stormwater ponds and water quality across the state of Florida. (Poster) Geological Society of America Annual Meeting, Phoenix, AZ, September 2019.
63. Goeckner, A., M. Lusk, **A.J. Reisinger**, J. Smoak, and T. Bianchi. Carbon dynamics of urban stormwater ponds: Burial, gas flux, and organic matter composition. Florida Lake Management Society Annual Symposium, Duck Key, FL, August 2019.  
*\*Awarded best student presentation.*
62. Iannone, B.V., J.S. Sinclair, **A.J. Reisinger**, E.Z. Bean, C. Adams, L. Reisinger, and A. Holmes. Stormwater ponds: an increasing habitat for invasive plants. Florida Lake Management Society Annual Symposium, Duck Key, FL, August 2019.
61. **A.J. Reisinger**, E.J. Rosi, E. Richmond, S.S. Kaushal, and P.M. Groffman. Challenges of connectivity within urban landscapes: Examples from the Baltimore Ecosystem Study. Annual Meeting of the Ecological Society of America, Louisville, KY, August 2019.
60. Sinclair, J.S., **A.J. Reisinger**, E. Bean, C.R. Adams, L.S. Reisinger, and B.V. Iannone III. Stormwater ponds: Proliferating refuges for invasive species in urban landscapes. Annual Meeting of the Ecological Society of America, Louisville, KY, August 2019.
59. Lin, L., **A.J. Reisinger**, E. Rosi, P. Groffman, and L.E. Band. Evaluating instream restoration effectiveness in reducing nitrogen export from an urban catchment with a data-model simulation approach. (Poster) Catchment Science: Interactions of Hydrology, Biology, and Geochemistry (Gordon Research Seminar). Andover, NH, June 2019.
58. Hess, K.M., E. Bean, **A.J. Reisinger**, and B.V. Iannone. Quantifying the effects of stormwater ponds drainage on urban remnant forested wetlands. (Poster) Annual Meeting of the Society of Wetland Scientists, Baltimore, MD, May 2019.
57. Taylor, E.<sup>§</sup>, and **A.J. Reisinger**. Landscape patterns drive variability in water chemistry across sub-tropical urban streams. (Poster) Annual Meeting of the Society for Freshwater Science, Salt Lake City, UT, May 2019.
56. Hohman, S.P.<sup>§</sup>, A.R. Smyth, and **A.J. Reisinger**. Quantifying mechanisms driving nutrient dynamics in stormwater ponds across an age gradient. (Poster) Annual Meeting of the Society for Freshwater Science, Salt Lake City, UT, May 2019.
55. Gallagher, M.<sup>&</sup> and **A.J. Reisinger**. A bitter pill to swallow: Effects of ciprofloxacin on urban stream biofilms. Annual Meeting of the Society for Freshwater Science, Salt Lake City, UT, May 2019.
54. Richmond, E.K., S.S. Lee, **A.J. Reisinger**, and E.J. Rosi. Are ecological threats posed by pharmaceutical pollution context dependent? Annual Meeting of the Society for Freshwater Science, Salt Lake City, UT, May 2019.
53. Sinclair, J.S., **A.J. Reisinger**, E. Bean, C. Adams, L. Reisinger, and B. Iannone. Stormwater ponds: Proliferating vectors of invasive species in urban watersheds. Annual Meeting of the Society for Freshwater Science, Salt Lake City, UT, May 2019.
52. Hess, K.M., E. Bean, **A.J. Reisinger**, and B. Iannone. Quantifying the effects of stormwater ponds on depressional urban wetland plant communities. (Poster) School of Forest Resources and Conservation Annual Graduate Symposium, Gainesville, FL, April 2019.
51. Hohman, S.<sup>§</sup>, A.R. Smyth, and **A.J. Reisinger**. Nutrient dynamics of stormwater retention ponds across a pond age gradient. (Poster) Annual UF-CLCE Urban Landscape Summit, Gainesville, FL, March 2019.
50. Taylor, E.<sup>§</sup>, and **A.J. Reisinger**. Variability in water chemistry across urban streams. (Poster) Annual UF-CLCE Urban Landscape Summit, Gainesville, FL, March 2019.

49. Hess, K.M., E. Bean, **A.J. Reisinger**, and B. Iannone. Quantifying the effects of stormwater ponds on depressional urban wetland plant communities. (Poster) Annual UF-CLCE Urban Landscape Summit, Gainesville, FL, March 2019.
48. **Reisinger, A.J.**, L. Sanderson<sup>E</sup>, and L. Singleton. Effects of compost topdressing on soil health in residential landscapes. Annual UF-CLCE Urban Landscape Summit, Gainesville, FL, March 2019.
47. Gallagher, M.<sup>&</sup>, and **A.J. Reisinger**. Metabolic responses of stream biofilms to ciprofloxacin exposure differ along an urban stream gradient. (Poster) American Geophysical Union Fall 2018 Meeting, Washington, D.C., December 2018.
46. Band, L.E., L. Lin, **A.J. Reisinger**, E.J. Rosi, S. Kaushal, and P. M. Groffman. Evaluation of stream restoration strategies for urban residential watersheds by coupling riparian and aquatic ecosystem modeling. American Geophysical Union Fall 2018 Meeting, Washington, D.C., December 2018.
45. Gallagher, M.<sup>&</sup>, and **A.J. Reisinger**. A dose is a dose is a dose: ambient stream conditions control biofilm responses to ciprofloxacin exposure. Gulf Coast Undergraduate Research Symposium (GCURS). Houston, TX, Oct 2018.
44. **Reisinger, A.J.**, L.S. Reisinger, E.K. Richmond, and E.J. Rosi. Crayfish on drugs: Effects of a common anti-depressant on crayfish behavior and subsequent biogeochemical impacts. Annual Meeting of the Ecological Society of America, New Orleans, LA, August 2018.
43. **Reisinger, A.J.**, L.S. Reisinger, E.K. Richmond, and E.J. Rosi. Crayfish on drugs: Effects of a common anti-depressant on crayfish behavior and subsequent biogeochemical impacts. Annual Meeting of the Society for Freshwater Science, Detroit, MI, May 2018
42. **Reisinger, A.J.**, E.J. Rosi, E. K. Richmond, S.S. Kaushal, and P.M. Groffman. Challenges of connectivity within urban landscapes: Examples from the Baltimore Ecosystem Study. 12<sup>th</sup> International Symposium on Biogeochemistry of Wetlands. Coral Springs, FL, Apr 2018.
41. **Reisinger, A.J.** Ecosystem ecology of Florida's urban landscapes. University of Florida Center for Landscape Conservation & Ecology 2018 Urban Landscape Summit. Gainesville, FL, Mar 2018.
40. **Reisinger, A.J.**, E. Woytowitz, E. Majcher, E.J. Rosi, and P.M. Groffman. Solute specific patterns and drivers of urban stream chemistry revealed by long-term monitoring in Baltimore, MD. Annual Conference of the American Geophysical Union, New Orleans, LA, Dec 2017.
39. Woytowitz, E.<sup>&</sup>, E. Majcher, **A.J. Reisinger**, P.M. Groffman, A. Volpitta, and D. Flores. The influence of gray and green infrastructure on water quality change in the Gwynns Falls watershed, Baltimore, Maryland. Baltimore Ecosystem Study Annual Meeting, Baltimore, MD, Oct 2017.
38. **Reisinger, A.J.**, E.J. Rosi, and P.M. Groffman. Initial results from a long-term stream metabolism monitoring network across Baltimore. Baltimore Ecosystem Study Annual Meeting, Baltimore, MD, Oct 2017.
37. Almeida, R.M., **A.J. Reisinger**, A.R. Gripp, D. Pire, E.J. Rosi, G.L.C. Boemer, J.D. Arantes Jr., K.A.N. Ribeiro, M. Lima, N. Barros, P.C. Junger, R. Azevedo, S.K. Hamilton, and F. Roland. Efeitos de uma usina a fio d'agua nas características da agua do rio Madeira e tributaries remansados. 16<sup>th</sup> Brazilian Congress of Limnology, Rio de Janeiro, Brazil, July 2017.
36. Rosi, E., J. Blaszczyk, R. Almeida, J. Fick, M. Grace, J. Kelly, S. Lee, **A. Reisinger**, E. Richmond, S. Robson, and D. Walters. Pharmaceuticals and personal care products as novel constituents in aquatic ecosystems. Annual Meeting of the Society for Freshwater Science, Raleigh, NC, June 2017.
35. Dee, M.M., J.L. Tank, T. Hoellein, **A. Reisinger**, and A. Marzadri. Partitioning the role of biology and seasonality in diel solute signals from two river networks of contrasting land us. Annual Meeting of the Society for Freshwater Science, Raleigh, NC, June 2017.
34. **Reisinger, A.J.**, R.P. Axler, M.J. Cooper, L.B. Johnson, C.R. Ruetz III, A.D. Steinman, and D.G. Uzarski. Natural and anthropogenic disturbances affect water quality of Great Lakes coastal wetlands. International Association for Great Lakes Research Conference on Great Lakes Research, Detroit, MI, May 2017.

33. **Reisinger, A.J.**, E.J. Rosi, E. Richmond, S.S. Kaushal, and P.M. Groffman. Challenges of connectivity within urban landscapes: Examples from the Baltimore Ecosystem Study. The Association for the Sciences of Limnology and Oceanography 2017 Aquatic Sciences Meeting, Honolulu, Hawaii, Feb-Mar 2017.
32. Rosi, E.J., R. Almeida, J. Blaszcak, M. Grace, J.J. Kelly, S.S. Lee, **A.J. Reisinger**, E. Richmond, S. Robson, and D.M. Walters. Pharmaceuticals and personal care products as novel constituents in aquatic ecosystems. The Association for the Sciences of Limnology and Oceanography 2017 Aquatic Sciences Meeting, Honolulu, Hawaii, Feb-Mar 2017.
31. Boodhan, Y.<sup>&</sup>, E. Rosi-Marshall, and **A.J. Reisinger**. Interacting effects of light and pharmaceuticals on stream biofilms. (Poster) Council on Undergraduate Research: Research Experience for Undergraduates Symposium, Arlington, VA, Oct 2016.
30. Robson, S., E. Richmond, **A.J. Reisinger**, E. Rosi-Marshall, and M. Grace. Effects of pharmaceuticals on open and shaded artificial stream ecosystems. Australian Society for Limnology Annual Conference, Victoria, Australia, Sept 2016.
29. **Reisinger, A.J.**, E.J. Rosi-Marshall, P.M. Groffman, S.S. Lee, E.S. Bernhardt, J.R. Blaszcak, N.B. Grimm, S.S. Kaushal, J.J. Kelly, P.S. Levi, and E.H. Stanley. Biogeochemical symptoms of the urban stream syndrome: Homogenization of water chemistry and implications for ecosystem functioning in urban streams. Annual Meeting of the Society for Freshwater Science, Sacramento, CA, May 2016.
28. Doody, T.R., **A.J. Reisinger**, E. Rosi-Marshall, S. Kaushal, and P. Groffman. Biogeochemical evaluation of restored urban streams. Annual Meeting of the Society for Freshwater Science, Sacramento, CA, May 2016.
27. Lee, S., E. Rosi-Marshall, **A.J. Reisinger**, J. Kelly, M. Rojas, and S. Kaushal. Effects of urban chemical stressors on stream biofilms. Annual Meeting of the Society for Freshwater Science, Sacramento, CA, May 2016.
26. Doody, T.R., **A.J. Reisinger**, S.S. Kaushal, E. Rosi-Marshall, and P.M. Groffman. Biogeochemical evaluation of restored urban streams. The Geological Society of America Annual Meeting, Baltimore, MD, November 2015.
25. **Reisinger, A.J.**, T.R. Doody, E.J. Rosi-Marshall, S.S. Kaushal, and P.M. Groffman. Assessing stream rehabilitation effects on metabolism and nitrogen dynamics of urban streams. Baltimore Ecosystem Study Long Term Ecological Research Station Annual Meeting, Baltimore, MD, October 2015.
24. Lee, S., E.J. Rosi-Marshall, A. Paspelof, D. Snow, **A.J. Reisinger**, J. Kelly, M. Rojas, and S. Kaushal. Effects of urban chemical stressors on stream biofilms. Baltimore Ecosystem Study Long Term Ecological Research Station Annual Meeting, Baltimore, MD, October 2015.
23. **Reisinger, A.J.**, J.L. Tank, T.J. Hoellein, and R.O. Hall. A comparison of sediment, water column, and open-channel denitrification measured using membrane-inlet mass spectrometry in Midwestern rivers. Annual Meeting of the Ecological Society of America, Baltimore, MD, August 2015.
22. **Reisinger, A.J.**, J.L. Tank, T. Hoellein, and R.O. Hall. Using MIMS to measure riverine sediment, water column, and open-channel denitrification. Annual Meeting of the Society for Freshwater Science, Milwaukee, WI, May 2015.
21. Barrons, H., **A.J. Reisinger**, J.L. Tank, and S. Tiegs. The contribution of fish excretion to nutrient cycling in streams across a land-use gradient. Annual Meeting of the Society for Freshwater Science, Milwaukee, WI, May 2015.
20. **Reisinger, A.J.**, J.L. Tank, E.J. Rosi-Marshall, R.O. Hall, M.A. Baker. Regional and seasonal variation in nutrient limitation of riverine biofilms. Joint Aquatic Sciences Meeting, Portland, OR, May 2014.
19. Tank, J.L., A. Aubeneau, **A.J. Reisinger**, M.A. Baker, R. O. Hall, P.S. Levi, T. Riis, and E.J. Rosi-Marshall. Linking biogeochemistry and hydrodynamics in rivers. Joint Aquatic Sciences Meeting, Portland, OR, May 2014.

18. Aubeneau, A.F., J.L. Tank, **A.J. Reisinger**, T. Riis, P. Levi, and D. Bolster. New take on old questions: The intersection of nutrient spiraling and transient storage in fluvial systems. (Poster) Joint Aquatic Sciences Meeting, Portland, OR, May 2014.
17. Levi, P.S., T. Riis, J.L. Tank, **A.J. Reisinger**, and A. Baattrup-Pedersen. Dynamics of seasonal nutrient uptake are controlled by ecosystem metabolism in macrophyte-dominated streams. Joint Aquatic Sciences Meeting, Portland, OR, May 2014.
16. Barrons, H.J., **A.J. Reisinger**, J.L. Tank, and S.D. Tiegs. Community-level fish excretion in three streams from contrasting land uses. (Poster) Joint Aquatic Sciences Meeting, Portland, OR, May 2014.
15. Riis, T., J.L. Tank, P.S. Levi, **A.J. Reisinger**, and A. Aubeneau. Seasonal changes in transient storage and nutrient uptake in a macrophyte-rich river. Joint Aquatic Sciences Meeting, Portland, OR, May 2014.
14. **Reisinger, A.J.**, J.L. Tank, E.J. Rosi-Marshall, R.O. Hall, and M.A. Baker. Pelagic nutrient uptake in 15 rivers with varying turbidity and nutrient concentrations. Annual Meeting of the Society for Freshwater Science, Jacksonville, FL, May 2013.
13. Tank, J.L., E.J. Rosi-Marshall, R.O. Hall, M.A. Baker, and **A.J. Reisinger**. Turbidity and nutrients drive nutrient uptake in 5 western rivers. Annual Meeting of the Society for Freshwater Science, Jacksonville, FL, May 2013.
12. Dee, M.M.&, **A.J. Reisinger**, and J.L. Tank. Nutrient limitation of riverine biofilms: The role of turbidity and cation-induced inhibition. (Poster) Annual Meeting of the Society for Freshwater Science, Jacksonville, FL, May 2013.
11. **Reisinger, A.J.**, J.L. Tank, E.J. Rosi-Marshall, R.O. Hall, and M.A. Baker. Pelagic nutrient uptake along the river continuum in watersheds with contrasting land use. Annual Meeting of the Society for Freshwater Science, Louisville, KY, May 2012.
10. Genzoli, L. A., **A.J. Reisinger**, R.O. Hall, J.L. Tank, E.J. Rosi-Marshall, and M.A. Baker. Pelagic primary production in five Midwestern Rivers. (Poster) Annual Meeting of the Society for Freshwater Science, Louisville, KY, May 2012.
9. Tank, J.L., R.O. Hall, E.J. Rosi-Marshall, M.A. Baker, and **A.J. Reisinger**. Patterns of nutrient spiraling in 5 Midwestern Rivers reflect a gradient of land use and nutrients. Annual Meeting of the Society for Freshwater Science, Louisville, KY, May 2012.
8. **Reisinger, A.J.**, J.L. Tank, E.J. Rosi-Marshall, E. Taylor-Salmon, R.O. Hall, M.A. Baker, D. Kincaid, and U.H. Mahl. The importance of water column nutrient uptake relative to whole river uptake in 5 western rivers. Annual Meeting of the North American Benthological Society, Providence RI, May 2011.
7. Tank, J.L., E.J. Rosi-Marshall, M.A. Baker, R.O. Hall, and **A.J. Reisinger**. Using empirical approaches to quantify nutrient spiraling in 5 western rivers. Annual Meeting of the North American Benthological Society, Providence RI, May 2011.
6. **Reisinger, A.J.**, and W.K. Dodds. Impact of woody encroachment on riparian and benthic denitrification. (Poster) Annual Meeting of the North American Benthological Society, Sante Fe, NM, June 2010.
5. **Reisinger, A.J.**, and W.K. Dodds. Effects of woody encroachment on riparian and stream denitrification. (Poster) LTER All-Scientists Meeting, Estes Park, CO, September 2009.
4. Tiegs, S. D., M. E. Benbow, E.Y. Campbell, D. T. Chaloner, J. Hudson, P.S. Levi, **A.J. Reisinger**, R. W. Merritt, J.Rüegg, J.L. Tank, and G. A. Lamberti. Comparative effects of spawning salmon and their carcasses in a southeast Alaska stream ecosystem. Ecological Society of America Annual Meeting, Milwaukee, WI. August, 2008.
3. Chaloner, D.T., M.E. Benbow, S.D. Bridgman, E.Y. Campbell, D.V. D'Amore, R.T. Edwards, J.P. Hudson, G.A. Lamberti, P.S. Levi, R.W. Merritt, **A.J. Reisinger**, J. Rüegg, J. L. Tank, and S.D. Tiegs. Environmental change alters the ecological role of Pacific salmon in southeast Alaska rivers. Ecological Society of America Annual Meeting, Milwaukee, WI. August, 2008.
2. **Reisinger, A.J.**, D.T. Chaloner, S.D. Tiegs, J. Rüegg, and G.A. Lamberti. Using the stable isotopic composition of juvenile coho to assess the ecological integrity of Southeast Alaskan streams.

(Poster) Annual Meeting of the North American Benthological Society, Salt Lake City, UT, June 2008.

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### **GRADUATE STUDENT COMMITTEES**

20. Audrey Goeckner (PhD *expected 2024*; chair)
19. Casey Harris (PhD *expected 2024*; chair)
18. Emily Taylor (PhD *expected 2022*; chair)
17. Adam Siders (PhD *expected 2022*; co-chair)
16. Steven Hohman (MS 2020; chair)
15. Excy Herrera (Professional MS 2018; chair)
14. Joseph Barrett Carter (PhD *expected 2024*; member)
13. Yuseung Shin (PhD *expected 2023*; member)
12. Gabriela Reyes (PhD *expected 2023*; member)
11. Addie Aufforth (MS *expected 2021*; member)
10. Bana Kabalan (MS *expected 2021*; member)
9. Daniela Daniele (MS *expected 2021*; member)
8. Christine Miller (Professional MS *expected 2021*; member)
7. Zijing “Austin” Liao (MS 2020; member)
6. Audrey Goeckner (MS 2020; member)
5. Daniel Fahr (Professional MS 2020; member)
4. Joseph Molenda (Professional MS 2020; member)
3. Lily Kirk (PhD 2020; member)
2. Lauren DeVito (MS 2020; member)
1. Kelsey Krueger (Professional MS 2019; member)

### **UNDERGRADUATE STUDENTS MENTORED**

<sup>H</sup>Undergraduate student completing honors thesis under my guidance

17. Marian Azeem-Angel (November 2020 - present)
16. Haley Huth (January 2020 - present)
15. Sierra Richardson (August 2019 - present)
14. Connor Morang<sup>H</sup> (August 2019 - present)
13. Jules Velasquez (August 2019 - present)
12. Samantha “Sam” Howley (May 2019 - present)
11. Gabrielle Bryson<sup>H</sup> (October 2019 - May 2020)
10. Jordan “Hallie” Ferguson (September 2018 - May 2020)
9. Dominick Padilla (August 2018 - December 2018)
8. Morgan Gallagher (May 2018 - August 2018)
7. Yashoma Boodhan (May 2016 - August 2016) - *Selected to represent the Cary Institute REU program at the annual Research Experience for Undergraduates Symposium*
6. Joseph Mueller (Aug 2013 - January 2014)
5. Zoe Volenec (June 2013 - July 2013)
4. Martha Dee (February 2012- May 2013)
3. Nicholas Anderson (June 2011- Aug 2011)
2. Emma Taylor-Salmon (July 2010- Aug 2010)
1. Dumi L. Presuma (May 2009- Aug 2009)

### **MEMBERSHIPS IN PROFESSIONAL SOCIETIES**

American Geophysical Union  
Association for the Sciences of Limnology and Oceanography  
Society for Freshwater Science  
Ecological Society of America  
International Association for Great Lakes Research