

# KAITLIN J. FARRELL

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Odum School of Ecology  
University of Georgia  
Athens, GA, USA

## EDUCATION

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- 2017 Ph.D. Ecology, University of Georgia, Athens, GA, USA  
Interdisciplinary Certificate in University Teaching
- 2012 M.S. Biology, Appalachian State University, Boone, NC, USA
- 2009 B.S. Environmental Biology, McGill University, Montreal, QC, Canada  
Dean's Honour List (top 10% of graduating class), Faculty of Agricultural & Environmental Sciences

## PROFESSIONAL APPOINTMENTS

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- 2023 – present Lecturer- Data Literacy, Odum School of Ecology (OSE), University of Georgia (UGA)
- 2022 – present Director of Domestic Field Study, Office of Instruction, UGA
- 2019 – 2023 Academic Professional- Instructional Laboratory Coordinator, OSE, UGA
- 2017 – 2019 Postdoctoral Associate, Dept. of Biological Sciences, Virginia Tech, Blacksburg, VA.

## TEACHING & COURSE COORDINATION

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### Instructor of Record (UGA):

- 2023 *Ecological Data Literacy* (ECOL 3550, 3 cr.), fall
- 2023, *Senior Seminar* (ECOL 4950, 1 cr.), spring/fall  
2020 – 2021
- 2023, *Graduate Teaching Seminar* (GRSC 7770, 1-3 cr.), fall  
2019 – 2021
- 2022, 2019, *Ecological Basis of Environmental Issues Honors and Lab* (ECOL 1000H & 1000L,  
2018, 2016 4 cr.), summer thru-term; Interdisciplinary Field Program (IFP)  
*Ecology of North America* (ECOL 4160-4160L, 4 cr.), summer thru-term; IFP
- 2021 *Ecology Research Laboratory* (ECOL 3510, 3 cr.), summer thru-term
- 2019 – 2023 *Ecological Basis of Environmental Issues Lab* (ECOL 1000L, 1 cr.), fall/spring/summer  
*Ecology Lab* (ECOL 3500L, 1 cr.), fall/spring/summer
- 2019 – 2021 *Honors Ecology Lab* (ECOL 3505L, 1 cr.), fall

### New Courses Developed:

- 2023 *Ecological Data Literacy* (ECOL 3550, 3 cr.), fall  
Course fully re-designed around applied practice using ecological datasets and R programming language. Submitted revised course to CAPA to fulfill UGA Core Curriculum Quantitative Reasoning requirement
- 2021 *Ecology Research Laboratory* (ECOL 3510, 3 cr.), summer thru-term  
Developed & taught as a Course-based Undergraduate Research Experience (CURE); as of Spring 2023, taught as ECOL 4310L (Ecological Methodology)
- 2019 *Graduate Teaching Seminar* (GRSC 7770, 1-3 cr.), fall  
Developed a section of GRSC 7770 that fulfills UGA requirements while focusing on training specifically relevant to ecology lecture & lab TAs

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## Curriculum Development:

- 2017 – present Field program curriculum lead, UGA IFP (ECOL 1000H & 1000L, 4160-4160L)
- 2019 – 2023 Large-enrollment lab curricula (ECOL 1000L, 3500/3505L), including online/asynchronous (Summer/Fall 2020) and hybrid/hyflex (Spring 2021) formats, UGA
- 2017 – 2019 Macrosystems EDDIE (Environmental Data-Driven Inquiry & Exploration) module development with C.C. Carey, Virginia Tech
- 2015 – 2016 Freshwater Ecosystems lab manual and teaching assistant manual development, UGA
- 2014 Ichthyology lab manual development, UGA

## Graduate Teaching Assistant (UGA):

- 2015, 2016 *Freshwater Ecosystems* (ECOL 4310L/6310L, 4 cr.), fall
- 2013 *Ichthyology* (ECOL 4050L/6050L, 4 cr.), fall

## Student Mentorship:

- 2023 – present Emmy McCumiskey (UGA '26) via UGA Mentor Program
- 2020 – present Teaching mentor for UGA Interdisciplinary Certificate in University Teaching (Carolyn Cummins: 2021 – present; Reni Kaul 2020 – 2021)
- 2019 – 2023 Teaching-related mentorship and training for ECOL 1000L and 3500/3505L teaching assistants (~15 graduate students each fall/spring; 2 students each summer)
- 2017 – 2019 Arianna Krinos (Virginia Tech '19)
- 2014 Olivia Mast (High school senior; Atlanta Girls' School '15)
- 2013 Sophia Bonjour (2013 NSF REU; Southern Illinois University '14)

## PEER-REVIEWED PUBLICATIONS (U = mentored undergraduate student)

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- 2021 **Farrell, K.J.**, K.C. Weathers, S.H. Sparks, J.A. Brentrup, C.C. Carey, M.C. Dietze, J.R. Foster, K.L. Grayson, J.H. Matthes, & M.D. SanClements. Training macrosystems scientists requires both interpersonal and technical skills. *Frontiers in Ecology and the Environment* 19: 39-46. DOI: 10.1002/fee.2287  
  
Creed, R.P., J. Skelton, **K.J. Farrell**, & B.L. Brown. Strong effects of a mutualism on freshwater community structure. *Ecology* 102: e03225. DOI: 10.1002/ecy.3225  
  
Emery, N.C., E. Crispo, S.R. Supp, **K.J. Farrell**, A.J. Kerkhoff, E.K. Bledsoe, K.L. O'Donnell, A.C. McCall, & M.E. Aeillo-Lammens. Data science in undergraduate life science education: a need for instructor skills training. *BioScience* 71: 1274-1287. DOI: 10.1093/biosci/biab107  
  
Hounshell, A.G., **K.J. Farrell**, & C.C. Carey. Macrosystems EDDIE teaching modules increase students' ability to define, interpret, and apply concepts in macrosystems ecology. *Education Sciences* 11: 382. DOI: 10.3390/educsci11080382  
  
Kincaid, D.W., W.S. Beck, J.E. Brandt, M.M. Brisbin, **K.J. Farrell**, K.L. Hondula, E.I. Larson, & A.J. Shogren. Wikipedia can help resolve information inequality in the aquatic sciences. *Limnology and Oceanography Letters* 6: 18-23. DOI: 10.1002/lo12.10168
- 2020 **Farrell, K.J.**, N.K. Ward, A.I. Krinos<sup>U</sup>, P.C. Hanson, V. Daneshmand, R.J. Figueiredo, & C.C. Carey. Ecosystem-scale nutrient cycling responses to increasing air temperatures vary with lake trophic state. *Ecological Modelling* 430: 109134. DOI: 10.1016/j.ecolmodel.2020.109134  
  
Carey, C.C., **K.J. Farrell**, A.G. Hounshell, & K. O'Connell. Macrosystems EDDIE teaching modules significantly increase ecology students' proficiency and confidence working with ecosystem models and use of systems thinking. *Ecology and Evolution* 10: 12515-12527. DOI: 10.1002/ece3.6757

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- Henson, V.R., K.M. Cobourn, K.C. Weathers, C.C. Carey, **K.J. Farrell**, J.L. Klug, M.G. Sorice, N.K. Ward, & W. Weng. A practical guide for managing interdisciplinary teams: Lessons learned from coupled natural and human systems research. *Social Sciences* 9, 119. DOI: 10.3390/socsci9070119
- Weng, W, K. Boyle, **K.J. Farrell**, C. Carey, K. Cobourn, H. Dugan, P. Hanson, N. Ward, & K. Weathers. Coupling natural and human models in the context of a lake ecosystem: Lake Mendota, Wisconsin, USA. *Ecological Economics* 169: 106556. DOI: 10.1016/j.ecolecon.2019.106556
- 2019 **Farrell, K.J.**, A.N. Cramer, K.L. Hondula, S.K. Thompson, & J.A. Zwart. Support of early-career researchers supports the future of ASLO. *Limnology & Oceanography: Bulletin* 28: 34. DOI: 10.1002/lob.10295
- Carey, C.C., N.K. Ward, **K.J. Farrell**, M.E. Lofton, A.I. Krinos<sup>U</sup>, R.P. McClure, K.C. Subratie, R.J. Figueiredo, J.P. Doubek, P.C. Hanson, P. Papadopoulos, & P. Arzberger. Enhancing collaboration between ecologists and computer scientists: lessons learned and recommendations for a path forward. *Ecosphere* 10: e02753. DOI: 10.1002/ecs2.2753
- 2018 **Farrell, K.J.**, & C.C. Carey. Power, pitfalls, and potential for integrating computational literacy into undergraduate ecology courses. *Ecology and Evolution* 8: 7744-7751. DOI: 10.1002/ece3.4363
- Farrell, K.J.**, A.D. Rosemond, J.S. Kominoski, S.M. Bonjour<sup>U</sup>, J. Rüegg, L.E. Koenig, C.L. Baker, M.T. Trentman, & T.K. Harms. Variation in detrital resource stoichiometry signals differential carbon to nutrient limitation for stream consumers across biomes. *Ecosystems* 21: 1676-1691. DOI: 10.1007/s10021-018-0247-z
- Cobourn, K.M., C.C. Carey, K. Boyle, C. Duffy, H.A. Dugan, **K.J. Farrell**, L. Fitchett, P.C. Hanson, J.A. Hart, V.R. Henson, A.L. Hetherington, A.R. Kemanian, L.G. Rudstam, L. Shu, P.A. Soranno, M. Sorice, J. Stachelek, N.K. Ward, K.C. Weathers, W. Weng, & Y. Zhang. From concept to practice to policy: modeling coupled natural and human systems in lake catchments. *Ecosphere* 9: e02209. DOI: 10.1002/ecs2.2209
- Engel, F., **K.J. Farrell**, I.M. McCullough, F. Scordo, B.A. Denfeld, H.A. Dugan, E. de Eyto, P.C. Hanson, R.P. McClure, P. Nöges, T. Nöges, E. Ryder, K.C. Weathers, & G.A. Weyhenmeyer. A lake classification concept for a more precise estimate of the dissolved inorganic carbon export from terrestrial ecosystems to inland waters. *The Science of Nature* 105: 25. DOI: 10.1007/s00114-018-1547-z
- McCullough, I.M., H.A. Dugan, **K.J. Farrell**, A.M. Morales-Williams, Z. Ouyang, D. Roberts, F. Scordo, S.L. Bartlett, S.M. Burke, J.P. Doubek, F.E. Krivak-Tetley, N.K. Skaff, J.C. Summers, K.C. Weathers, & P.C. Hanson. Dynamic modeling of organic carbon fates in lake ecosystems. *Ecological Modelling* 386: 71-82. DOI: 10.1016/j.ecolmodel.2018.08.009
- Song, C., W.K. Dodds, J. Rüegg, A. Argerich, C.L. Baker, W.B. Bowden, M.M. Douglas, **K.J. Farrell**, M.B. Flinn, E.A. Garcia, A.M. Helton, T.K. Harms, S. Jia, J.B. Jones, L.E. Koenig, J.S. Kominoski, W.H. McDowell, D. McMaster, S.P. Parker, A.D. Rosemond, C.M. Ruffing, K.R. Sheehan, M.T. Trentman, M.R. Whiles, W.M. Wollheim, & F. Ballantyne IV. Continental-scale decrease in net primary productivity in streams due to climate warming. *Nature Geoscience* 11: 415-420. DOI: 10.1038/s41561-018-0125-5
- 2017 Dugan, H.A., S.L. Bartlett, S.M. Burke, J.P. Doubek, F.E. Krivak-Tetley, N.K. Skaff, J.C. Summers, **K.J. Farrell**, I.M. McCullough, A.M. Morales-Williams, D. Roberts, F. Scordo, Z. Ouyang, P.C. Hanson, & K.C. Weathers. Salting our freshwater lakes. *Proceedings of the National Academy of Sciences* 114: 4453-4458. DOI: 10.1073/pnas.1620211114

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- 2016 Rüegg, J., W.K. Dodds, M.D. Daniels, K.R. Sheehan, C.L. Baker, W.B. Bowden, **K.J. Farrell**, M.B. Flinn, T.K. Harms, J.B. Jones, & L.E. Koenig. Baseflow physical characteristics differ at multiple spatial scales in stream networks across diverse biomes. *Landscape Ecology* 31: 119-136. DOI: 10.1007/s10980-015-0289-y
- 2014 **Farrell, K.J.**, R.P. Creed, & B.L. Brown. Reduced densities of ectosymbiotic worms (Annelida: Branchiobdellida) on reproducing female crayfish. *Southeastern Naturalist* 13: 523-529. DOI: 10.1656/058.013.0312
- Farrell, K.J.**, R.P. Creed, & B.L. Brown. Preventing overexploitation in a mutualism: Partner regulation in the crayfish-branchiobdellid symbiosis. *Oecologia* 174: 501-510. DOI: 10.1007/s00442-013-2780-y
- 2013 Skelton, J., **K.J. Farrell**, R.P. Creed, B.W. Williams, C. Ames, B.S. Helms, J. Stoekel, & B.L. Brown. Servants, scoundrels, and hitchhikers: current understanding of the complex interactions between crayfish and their ectosymbiotic worms (Branchiobdellida). *Freshwater Science* 32: 1345-1357. DOI: 10.1899/12-198.1
- 2012 Brown, B.L., R.P. Creed, J. Skelton, M.R. Rollins & **K.J. Farrell**. The fine line between mutualism and parasitism: Complex effects in a cleaning symbiosis demonstrated by multiple field experiments. *Oecologia* 170: 199-207. DOI: 10.1007/s00442-012-2280-5

### Manuscript Preprints

Krinos, A.I.<sup>U</sup>, **K.J. Farrell**, V. Daneshmand, K.C. Subratie, R.J. Figueiredo, & C.C. Carey. 2019. Including variability in air temperature warming scenarios in a lake simulation model highlights uncertainty in predictions of cyanobacteria. *bioRxiv Preprint*: 734285. DOI: 10.1101/734285.

### PUBLISHED TEACHING MODULES

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‡ = “Exemplary” rating, National Assn. of Geoscience Teachers 2022 *On the Cutting Edge* Program

- 2020 ‡Carey, C.C., **K.J. Farrell**, & A.G. Hounshell. Macrosystems EDDIE Module 4: Macro-Scale Feedbacks. *Environmental Data Initiative*. DOI: 10.6073/pasta/c2cabba0b755d852dabe74d181e2dc28
- 2019 ‡**Farrell, K.J.**, & C.C. Carey. Macrosystems EDDIE Module 3: Teleconnections. *Environmental Data Initiative*. DOI: 10.6073/pasta/89ffc527545f581290a7c19c5cbb7163
- ‡Carey, C.C., & **K.J. Farrell**. Macrosystems EDDIE Module 2: Cross-Scale Interactions. *Environmental Data Initiative*. DOI: 10.6073/pasta/28f233002e2e1b6c8d412992e378358f
- 2018 ‡Carey C.C., S. Aditya, K. Subratie, R.J. Figueiredo, & **K.J. Farrell**. Macrosystems EDDIE Module 1: Climate Change Effects on Lake Temperatures. *Environmental Data Initiative*. DOI: 10.6073/pasta/f7c4c245f495d859dcaa4ff6794d1fac

### PUBLISHED DATA PRODUCTS

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- 2019 Carey C.C., A.B. Gerling, J.P. Doubek, K.D. Hamre, R.P. McClure, M.E. Lofton, & **K.J. Farrell**. Secchi depth data and discrete depth profiles of photosynthetically active radiation, temperature, dissolved oxygen, and pH for Beaverdam Reservoir, Carvins Cove Reservoir, Falling Creek Reservoir, Gatewood Reservoir, and Spring Hollow Reservoir in southwestern Virginia, USA 2013-2018. *Environmental Data Initiative*. DOI: 10.6073/pasta/e840c6c921afb43c326111b525de62b2

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Carey C.C., M.E. Lofton, A.B. Gerling, R.P. McClure, J.P. Doubek, B.R. Niederlehner, & **K.J. Farrell**. Water chemistry time series for Beaverdam Reservoir, Carvins Cove Reservoir, Falling Creek Reservoir, Gatewood Reservoir, and Spring Hollow Reservoir in southwestern Virginia, USA 2013-2018. *Environmental Data Initiative*. DOI: 10.6073/pasta/08a8d297003c8e8593f888980f52bbcf

### AWARDS, FELLOWSHIPS, & GRANTS (selected)

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#### Awards

- 2022 Nominee, UGA Creative Teaching Award
- 2021 Dean's Award, Odum School of Ecology, UGA
- 2021 Outstanding Faculty Instructor of the Year, OSE, UGA
- 2017 1<sup>st</sup> Place Doctoral Research, OSE Graduate Student Symposium
- 2016 Outstanding Teaching Assistant Award, UGA
- 2016 Distinguished Graduate Student Teaching Award, OSE, UGA
- 2015 Frank Golley Memorial Scholarship, OSE, UGA

#### Fellowships

- 2015 – 2017 Global Lakes Ecological Observatory Network (GLEON) Graduate Fellowship Program
- 2012 – 2014 Scholar of Excellence Fellowship, UGA (\$38,000)

#### Grants

- 2021 – 2026 Senior Personnel & Steering Committee Member, “RCN-UBE: Biological and Environmental Data Education Network: Preparing Instructors to Integrate Data Science into Undergraduate Biology and Environmental Science Curricula” (NSF award 2120609)
- 2015, 2016 Watershed UGA Mini-Grants for teaching, UGA (\$735 total)

### INVITED WORKSHOP & SHORT COURSE PARTICIPATION (since 2018)

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- 2023 Domestic Field Study Fellows Program, Athens, GA, June 2023 (*Program developer & Lead presenter*)
- 2022 UGA General Education Assessment Results Think Tank, Athens, GA, January 2022 (*Participant*)
- 2019 Biological and Environmental Data Education (BEDE) Network Workshop, Denison, OH, June 2019. (*Participant*)  
“Learn to Integrate NEON and GLEON Data into your Classroom using Macrosystems EDDIE.” Ecological Society of America Annual Meeting, Louisville, KY, August 2019 (*Workshop co-organizer*)
- 2018 “Introduction to Macrosystems EDDIE and Cross-Scale Interactions.” GLEON 20 Meeting, Rottneest Island, Australia, December 2018. (*Workshop co-organizer & presenter*)  
Ecological Dissertations in the Aquatic Sciences (Eco-DAS) Symposium, Honolulu, HI, October 2018. (*Presenter & participant*)  
Coupled-Natural Human System Lake Catchments Workshop, Sunapee, NH, May 2018 (*Participant & Presenter*)  
National Science Foundation Macrosystems Biology Principal Investigator Meeting, Arlington, VA, January 2018 (*Participant & Presenter*)

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### INVITED TALKS (since 2018; presenters underlined)

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- 2020 Farrell, K.J., & K.C. Weathers. Lather, rinse, reuse- Are our archived data valuable or all wet? *Ecological Society of America*. Virtual conference, 5 Aug 2020. Inspire oral presentation.
- 2019 Carey, C.C., & K.J. Farrell. Integrating simulation modeling into undergraduate aquatic ecology courses increases students' understanding of global change on lakes. *Association for the Sciences of Limnology & Oceanography Aquatic Sciences Meeting*. San Juan, PR, 28 February 2019.
- 2018 Farrell, K.J. Interacting effects of climate and land use on nutrient cycling in eutrophic and oligotrophic lakes. *United States Environmental Protection Agency Nutrient Pollution Science Webinar Series*. 25 September 2018.
- Farrell, K.J., & C.C. Carey. Integrating simulation modeling into ecology curricula through hands-on teaching modules increases undergraduate students' understanding of macrosystems ecology. *Ecological Society of America*. New Orleans, LA, 7 August 2018.
- Weathers, K.C., P.C. Hanson, & K.J. Farrell. Team science and graduate student training: A network perspective. *National Science Foundation Macrosystems Biology Principal Investigator Meeting*. Arlington, VA, 9 January 2018.
- Farrell, K.J., & C.C. Carey. Macrosystems EDDIE: Developing the first macrosystems ecology curriculum for undergraduates using modeling, sensor data, and R. *National Science Foundation Macrosystems Biology Principal Investigator Meeting*. Arlington, VA, 9 January 2018.

### CONTRIBUTED PRESENTATIONS (since 2018; presenters underlined; <sup>U</sup> = mentored undergraduate student; <sup>G</sup> = mentored graduate student)

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- 2023 Emery, N., E. Crispo, S. Supp, K. Farrell, A. Kerkhoff, E. Bledsoe, K. O'Donnell, A. McCall, & M. Aiello-Lammens. From courses to curricula: integrating data science skills into life science education. *Ecological Society of America*. Portland, OR, 8 Aug 2023. Poster presentation.
- 2022 Cummins, C.S.<sup>G</sup>, A.T. Rugenski, & K.J. Farrell. Effects of instructional technique on student perception and comprehension of scientific literature. *UGA Center for Teaching and Learning Spring Teaching Symposium*. Athens, GA, 5 April 2022. Poster presentation.
- 2021 Carey, C.C., K.J. Farrell, A.G. Hounshell, & T.N. Moore. Macrosystems EDDIE modules increase students' quantitative skills and understanding of macrosystems ecology. *Ecological Society of America*. Virtual conference, August 2021. Poster presentation.
- 2020 Hounshell, A.G., K.J. Farrell, & C.C. Carey. Hands-on modeling activities in Macrosystems EDDIE teaching modules increase undergraduate students' ability to define, interpret, and apply advanced concepts in the environmental sciences. *American Geophysical Union Fall Meeting*. Virtual conference, 15 Dec 2020. Poster presentation.
- Carey, C.C., K.J. Farrell, A.G. Hounshell, & T. Moore. Macrosystems EDDIE teaching modules significantly increase ecology students' proficiency working with ecosystem models and use of systems thinking. *GLEON 21.5*. Virtual conference, 19 Oct 2020. Poster presentation.
- Farrell, K.J., C.C. Carey, & A.G. Hounshell. Hands-on ecosystem modeling activities increase students' understanding of macrosystems ecology. *Ecological Society of America*. Virtual conference, 3 Aug 2020. Poster presentation.

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- Brisbin, M.M., B. Grunert, W. Beck, J. Brandt, **K. Farrell**, K. Hondula, D. Kincaid, E. Larson, A. Shogren, & J. Zwart. WikiProject L&O: Promoting Wikipedia contributions to enhance communication and public impact *Ocean Sciences Meeting*. San Diego, CA, 18 Feb 2020. Poster presentation.
- 2019 Hounshell, A.G., **K.J. Farrell**, and C.C. Carey. Macrosystems EDDIE: Using hands-on teaching modules to build computational literacy and water resources concepts in undergraduate curricula. *American Geophysical Union Fall Meeting*. San Francisco, CA, 9 December 2019. eLightning presentation.
- Hondula, K.L., J.E Brandt, **K.J. Farrell**, D.W. Kincaid, A. Shogren, J.A. Zwart. From classroom to community: Student contributions to WikiProject Limnology & Oceanography expand public education in the aquatic sciences. *American Geophysical Union Fall Meeting*. San Francisco, CA, 9 December 2019. eLightning presentation.
- Carey, C.C., A.G. Hounshell, & **K.J. Farrell**. Integrating simulation modeling into undergraduate aquatic ecology courses increases students' understanding of global change on lakes. *GLEON 21 Meeting*. Huntsville, Ontario, Canada, 5 November 2019. Poster presentation.
- Zwart, J.A., W. Beck, J.E. Brandt, M.M. Brisbin, **K.J. Farrell**, K.L. Hondula, D.W. Kincaid, E.I. Larson, & A.J. Shogren. Curating open scientific information on Wikipedia: a case study of WikiProject Limnology and Oceanography. *Ecological Society of America*. Louisville, KY, 14 August 2019. Oral presentation.
- Henson, V.R., K. Cobourn, C.C. Carey, K. Weathers, **K.J. Farrell**, N. Ward, W. Weng, J. Klug, & M. Sorice. Managing interdisciplinary teams: Lessons learned from coupled natural and human systems modeling in lake catchments. *International Network for the Science of Team Science*. Lansing, MI, 21 May 2019. Oral presentation.
- Carey, C.C. **K.J. Farrell**, & A.G. Hounshell. Macrosystems EDDIE: Building computational literacy and macrosystems ecology knowledge through hands-on teaching modules. *NSF Macrosystems Principal Investigators Meeting*. Boulder, CO, 16 May 2019. Poster presentation.
- 2018 **Farrell, K.J.** and C.C. Carey. Macrosystems EDDIE: Building computational literacy and macrosystems ecology knowledge through hands-on teaching modules. *GLEON 20 Meeting*. Rottneest Island, Australia, 4 December 2018. Poster presentation.
- Cobourn, K.M., C. Carey, K. Boyle, C. Duffy, H.A. Dugan, **K. Farrell**, L. Fitchett, P.C. Hanson, V.R. Henson, M. Sorice, A. Kemanian, L. Shu, W. Weng, K.C. Weathers, & Y. Zhang. Modeling coupled natural and human systems in lake catchments reveals feedbacks among land-management decisions, water quality degradation, and altered property values. *American Geophysical Union Fall Meeting*. Washington, D.C., 10 December 2018. Poster presentation.
- Orr, C.H., C. O'Reilly, C. Carey, R. Gougis, D.C. Soule, T. Meizner, **K. Farrell**, J. Klug, D. Richardson, N. Bader, D. Castendyk, W.J. Hunter, & K.C. Weathers, & C.H. Orr. Environmental data-driven inquiry and exploration (Project EDDIE): using large datasets to build quantitative literacy. *American Geophysical Union Fall Meeting*. Washington, D.C., 14 December 2018. eLightning presentation.
- Farrell, K.J.**, C.C. Carey, A.I. Krinos<sup>U</sup>, N.K. Ward, P.C. Hanson, R.J. Figueiredo, V. Daneshmand, & K. Subratie. Increasing air temperatures differentially alter intra- and inter-annual nitrogen and phosphorus cycling in a eutrophic and an oligotrophic lake. *Ecological Society of America*. New Orleans, LA, August 2018. Oral presentation.

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Weng, W., K.J. Boyle, C. Carey, K.M. Cobourn, H. Dugan, **K. Farrell**, P. Hanson, S. Brahma, N. Ward, & K. Weathers. Coupling water quality numerical simulation and hedonic models to evaluate impact of changes in nutrient loading. *Agricultural & Applied Economics Association*. Washington, D.C., August 2018. Oral presentation.

Cobourn, K., C. Carey, K. Boyle, C. Duffy, H. Dugan, **K. Farrell**, L. Fitchett, P.C. Hanson, J.A. Hart, V.R. Henson, A. Hetherington, A.R. Kemanian, L.G. Rudstam, L. Shu, P.A. Soranno, M. Sorice, J. Stachelek, N.K. Ward, K.C. Weathers, W. Weng, & Y. Zhang. From concept to practice: an innovative framework for modeling coupled natural and human systems in lake catchments. *Universities Council on Water Resources*. Pittsburgh, PA, June 2018. Oral presentation.

Boyle, K., C. Carey, W. Weng, **K. Farrell**, P. Hanson, K. Cobourn, & S. Brahma. Coupling water quality numerical simulation and hedonic models to evaluate impact of changes in nutrient loading. *Universities Council on Water Resources*. Pittsburgh, PA, June 26, 2018. Oral presentation.

Song, C., W.K. Dodds, A. Argerich, C. Baker, W.B. Bowden, M. Douglas, **K.J. Farrell**, M.B. Flinn, E. Garcia, A. Helton, T. Harms, S. Jia, J. Jones, L. Koenig, J.S. Kominoski, W.H. McDowell, D. McMaster, S.P. Parker, A.D. Rosemond, C. Ruffing, K. Sheehan, M.T. Trentman, M. Whiles, W. Wollheim, & F. Ballantyne. Warming induces asymmetric convergence of stream metabolic balance. *Society for Freshwater Science*. Detroit, MI, May 2018. Oral presentation.

**Farrell, K.J.**, C.C. Carey, A.I. Krinos<sup>U</sup>, N.K. Ward, P.C. Hanson, R.J. Figueiredo, V. Daneshmand, & K. Subratie. GRAPLER platform accelerates whole-ecosystem simulation modeling to increase understanding of climate change impacts on lake nutrient cycling. *Pacific Rim Applications and Grid Middleware Assembly 34 Meeting*. Akihabara, Tokyo, Japan, May 2018. Poster presentation.

**Farrell, K.J.**, & C.C. Carey. Macrosystems EDDIE: Introducing undergraduate students to macrosystems ecology and simulation modeling through hands-on teaching modules. *National Science Foundation Macrosystems Biology Principal Investigator Meeting*. Arlington, VA, January 2018. Poster presentation.

### PROFESSIONAL SERVICE & ACTIVITIES (since 2018)

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#### University Service (University of Georgia):

2023 – present    Experiential Learning Council, UGA (*Member*)  
2023 – present    Domestic Field Study Advisory Council, Office of Instruction, UGA (*Chair*)  
2021 – 2022      Lecturer Search Committee, Mathematics Department, UGA (*External member*)  
2019 – 2023      Science Learning Center Management Committee, UGA (*Member*)

#### Unit-Level Service (Odum School of Ecology):

2023              Academic Professional Associate Search Committee (*Chair*)  
2023              Limited-Term Lecturer Search Committee (*Member*)  
2020              Public Service Professional Search Committee (*Member*)  
2019 – present   Undergraduate Program Committee (*Ex-officio member 2019-2023*)  
2019 – 2023      Academic Programs Committee (*Ex-officio member*)  
2019 – 2022      Diversity Committee, OSE, UGA (*Member*)  
2019 – 2020      Lecturer Search Committee, OSE, UGA (*Member*)

#### Inclusive Excellence Efforts:

2023, 2021      Diversity, Equity, & Inclusion (DEI) Workshop, OSE, UGA



## KAITLIN J. FARRELL

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- 2023, 2019 Dialogues in Diversity Lunch & Learn, Office of Institutional Diversity, UGA  
2019 Safe Space Training, LGBT Resource Center, UGA  
2018 Diversity Advocate certificate program, Virginia Tech  
2018 Diversity Ally certificate program, Virginia Tech

### Teaching-Focused Workshops & Professional Development:

- 2023 Active Learning Summit, UGA (February 2023)  
“Supporting 1<sup>st</sup> Generation College Students” Dialogues in Diversity, UGA (October 2023)
- 2021 “The Cost of Exclusion in Higher Education” webinar (March 2021)  
“R Studio for everyone - How to teach and use RStudio Cloud in the Classroom”  
webinar, Project EDDIE (January 2021)
- 2020 – 2021 Coordinated Courses Faculty Learning Community, UGA
- 2020 “Preparing to Pivot” workshop series, UGA Center for Teaching & Learning (CTL; July 2020)  
“GRSC 7770 Instructor Workshop” workshop, UGA CTL (July 2020)  
“Online Engagement: How to do discussions well & why they aren’t enough” webinar,  
UGA Office of Online Learning (OOL; June 2020)  
“Successfully Leveraging Video Opportunities for your Course” webinar, UGA OOL  
(June 2020)  
“Framing Online Assessment” webinar, UGA OOL (May 2020)  
“How to Create Content for your Online Course” webinar, UGA OOL (May 2020)  
“Elements of Good Online Learning” webinar, UGA OOL (May 2020)  
“Making Learning Technology Work for You: Video Creation” workshop, UGA CTL  
(Jan 2020)  
“Gathering & Responding to Feedback on your Teaching” workshop, UGA CTL (August  
2019)  
“GRSC 7770 Instructor Workshop”, UGA CTL (June 2019)

### Teaching Product Peer Review:

- 2023 Ecological Research as Education Network (EREN) teaching module check-ins (3  
modules)
- 2020, 2022 General Education assessment, Critical Thinking (2020) and Quantitative Reasoning  
(2022), UGA Office of Instruction
- 2020 – present Project EDDIE (Environmental Data-Driven Inquiry & Exploration) Earth & Ecosystems  
modules (18 reviewed), Project EDDIE Statistical Vignettes (6 reviewed)

### Journal Peer Review:

*Aquatic Sciences, Biological Invasions, Ecology & Evolution, Freshwater Science, Hydrobiologia,  
Journal of Applied Ecology, Scientific Data, Water Resources Research*

## CURRENT PROFESSIONAL MEMBERSHIPS & AFFILIATIONS

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Biological and Environmental Data Education (BEDE) Network; 2019 – present  
Ecological Society of America (ESA); 2014 – present  
Global Lakes Ecological Observatory Network (GLEON); 2014 – present