

Ryan Paul McClure

Ph.D. Candidate, Virginia Tech
Department of Biological Sciences
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RESEARCH INTERESTS

- Carbon cycling in freshwater ecosystems
- Aquatic biogeochemistry
- Greenhouse gas production and emissions in waterbodies
- Whole ecosystem manipulations

EDUCATION

- Ph.D. In Biological Sciences, expected 2020
Department of Biological Sciences, Virginia Tech, Blacksburg, VA
Advisor: Dr. Cayelan C. Carey
- B.S. In Ecology, cum laude, 2012
Department of Ecology, Montana State University, Bozeman, MT
Advisor: Dr. Wyatt F. Cross

PUBLICATIONS

- 2019 M.E. Lofton, **R.P. McClure**, S. Chen, J.C. Little, and C.C. Carey. Whole-ecosystem experiments reveal varying responses of phytoplankton functional groups to epilimnetic mixing in a eutrophic reservoir. *In Press: Water*.
- 2018 Z.W. Munger, C.C. Carey, A.B. Gerling, J.P. Doubek, K.D. Hamre, **R.P. McClure**, M.E. Schreiber. Oxygenation and hydrologic controls on iron and manganese mass budgets in a drinking water reservoir. *In Press: Lake and Reservoir Management*.
- 2018 **R.P. McClure**, K.D. Hamre, M.E. Lofton, B.R. Neiderlehner, Z.W. Munger, S. Chen, M.E. Schreiber and C.C. Carey. Metalimnetic oxygen minima alter the vertical profiles of carbon dioxide and methane in a managed freshwater reservoir. *Science of the Total Environment*. DOI: 10.1016/j.scitotenv.2018.04.255
- 2018 J.P. Doubek, K.L. Campbell, K.M. Doubek, K.D. Hamre, M.E. Lofton, **R.P. McClure**, N.K. Ward and C.C. Carey. The effects of hypolimnetic anoxia on the diel vertical migration of freshwater crustacean zooplankton. *Ecosphere*. DOI: 10.1002/ecs2.2332
- 2018 K.D. Hamre, M.E. Lofton, **R.P. McClure**, Z.W. Munger, J.P. Doubek, A.B. Gerling, M.E. Schreiber and C.C. Carey. In situ fluorometry reveals a persistent, perennial hypolimnetic cyanobacterial bloom in a seasonally anoxic reservoir. *Freshwater Science*. DOI: full/10.1086/699327

- 2018 C.C. Carey, P.C. Hanson, J.P. Doubek, **R.P. McClure**. Oxygen dynamics control the burial of organic carbon in a eutrophic reservoir. *Limnology and Oceanography-Letters*. DOI: 10.1002/lol2.10057
- 2018 F. Engel, K.J. Farrell, I.M. McCullough, F. Scordo, B.A. Denfield, H.A. Dugan, E. Eyto, P.C. Hanson, **R.P. McClure**, P. Noges, T. Noges, E. Ryder, K.C. Weathers, G.A. Weyhenmeyer. A lake classification concept for a more accurate global estimate of the dissolved inorganic carbon export from terrestrial ecosystems to inland waters. *The Science of Nature*. DOI: 10.1007/s00114-018-1547-z
- 2018 S. Chen, C.C. Carey, J.C. Little, M.E. Lofton, **R.P. McClure**, C. Lei. Effectiveness of a bubble-plume mixing system for managing phytoplankton in lakes and reservoirs. *Ecological Engineering*. 113, 43 – 51. DOI: 10.1016/j.ecoleng.2018.01.002
- 2018 C.C. Carey, **R.P. McClure**, J.P. Doubek, M.E. Lofton, N.K. Ward, D. Scott. *Chaoborus* spp. transport CH₄ from the sediments to the surface waters of a eutrophic reservoir, but their contribution to water column CH₄ concentrations and diffusive efflux is minor. *Environmental Science and Technology*. 52 (3), 1165–1173. DOI: 10.1021/acs.est.7b04384
- 2018 S. Chen, J.C. Little, C.C. Carey, **R.P. McClure**, M.E. Lofton, C. Lei. Three-dimensional effects of epilimnetic mixing in a shallow drinking-water reservoir: an experimental and numerical study. *Water Resources Research*. DOI: 10.1002/2017WR021127
- 2017 K.D. Hamre, A.B. Gerling, Z.W. Munger, J.P. Doubek, **R.P. McClure**, K.L. Cottingham, C.C. Carey. Spatial variation in dinoflagellate recruitment along a reservoir ecosystem continuum. *Journal of Plankton Research*. 1-14. DOI: 10.1093/plankt/fbx004
- 2016 Z.W. Munger, A.B. Gerling, C.C. Carey, K.D. Hamre, Doubek, J.P. Doubek, S.D. Klepatzki, **R.P. McClure**, M.E. Schreiber. Effectiveness of hypolimnetic oxygenation for preventing accumulation of Fe and Mn in a drinking water reservoir. *Water Research*. 106, 1-14. DOI: 10.1016/j.watres.2016.09.038

PUBLICATIONS IN REVISION, REVIEW, AND PREPARATION

R.P. McClure, M.E. Lofton, K.M. Kruger, S. Chen, J.C. Little, and C.C. Carey. The relative importance of physical and biological processes as drivers of CH₄ ebullition and diffusion varies along the reservoir continuum. In prep: *JGR: Biogeosciences*

C.C. Carey, N.W. Ward, K.J. Farrell, M.E. Lofton, A. Krinos, **R.P. McClure**, K. Subatrie, R. Figueiredo, J.P. Doubek, P.C. Hanson, P. Papadopolous, P. Arzberger. Enhancing collaboration between ecologists and computer scientists: lessons learned and paths forward. In revision: *Ecosphere*.

PUBLISHED ONLINE DATA PRODUCTS

- 2019 Cayelan C. Carey, **Ryan P. McClure**, Alexandra B. Gerling, Jonathan P. Doubek, Shengyang Chen, et al. 2019. Time series of high-frequency profiles of depth, temperature, dissolved oxygen, conductivity, specific conductivity, chlorophyll a, turbidity, pH, oxidation-reduction potential, photosynthetic active radiation, and descent rate for Beaverdam Reservoir, Carvins Cove Reservoir, Falling Creek Reservoir, Gatewood Reservoir, and Spring Hollow Reservoir in Southwestern Virginia, USA 2013-2018. *Environmental Data Initiative*.
<https://doi.org/10.6073/pasta/8f19c5d19d816857e55077ba20570265>
- 2019 Cayelan C. Carey, Alexandra B. Gerling, Jonathan P. Doubek, Kathleen D. Hamre, **Ryan P. McClure**, et al. 2019. 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*.
<https://doi.org/10.6073/pasta/e840c6c921afb43c326111b525de62b2>
- 2018 Cayelan C. Carey, Alexandra B. Gerling, **Ryan P. McClure**, Mary E. Lofton, and Bethany J. Bookout. 2018. Discharge time series for the primary inflow tributary entering Falling Creek Reservoir, Vinton, Virginia, USA 2013-2018. *Environmental Data Initiative*.
<https://doi.org/10.6073/pasta/64ff214b987da2997f5c823b156b3334>
- 2018 Cayelan C. Carey, Mary E. Lofton, Alexandra B. Gerling, **Ryan P. McClure**, Jonathan P. Doubek, et al. 2018. Water chemistry time series for Beaverdam Reservoir, Carvins Cove Reservoir, Falling Creek Reservoir, Gatewood Reservoir, and Spring Hollow Reservoir in southwestern Virginia, USA 2013-2017. *Environmental Data Initiative*.
<https://doi.org/10.6073/pasta/7140e852f519fe8acd1f86927c0af763>
- 2017 Carey C.C., J.P. Doubek, **R.P. McClure**, P.C. Hanson. 2017. Organic carbon, temperature, oxygen, and inflow volume time series for Falling Creek Reservoir, Vinton, Virginia: Summer 2014. *Environmental Data Initiative*.
<https://doi.org/10.6073/pasta/10545e44a05b1a688c1561d602ca8a62>

ORAL PRESENTATIONS

- 2018 **R.P. McClure**, M.E. Lofton, K.M. Kruger, S. Chen, J.C. Little, M.E. Schreiber and C.C. Carey. *The magnitude and drivers of methane emissions vary spatially along a reservoir continuum*. American Geophysical Union 2018 Annual Meeting, December 2018. Washington D.C., USA
- 2018 **R.P. McClure**, M.E. Lofton, K.M. Kruger, S. Chen, J.C. Little, M.E. Schreiber and C.C. Carey. *Hypolimnetic oxygenation increases methane ebullition in a eutrophic drinking water reservoir*. ASLO 2018 Summer Meeting, June 2018. Victoria, British Columbia.
- 2018 M.E. Lofton, D. Howard, R.P. McClure, and C.C. Carey. *Whole-ecosystem mixing experiments suggest storms increase cyanobacterial recruitment from the sediments to the water column*. ASLO 2018 Summer Meeting, June 2018. Victoria, British Columbia.

- 2018 **R.P. McClure**, M.E. Lofton, K.M. Kruger, S. Chen, J.C. Little, M.E. Schreiber and C.C. Carey. *Hypolimnetic oxygenation increases methane ebullition in a eutrophic drinking water reservoir*. Interface of Global Change Graduate Research Symposium, April 2018. Blacksburg, Virginia.
- 2018 **R.P. McClure**, M.E. Lofton, K.M. Kruger, S. Chen, J.C. Little, M.E. Schreiber and C.C. Carey. *Whole-ecosystem experiments suggest nutrient subsidies and functional traits influence phytoplankton response to epilimnetic mixing*. Virginia Water Conference, March 2018. Richmond, Virginia.
- 2017 **R.P. McClure**, K.D. Hamre, M.E. Lofton, B.R. Neiderlehner, Z.W. Munger, S. Chen, M.E. Schreiber and C.C. Carey. *Metalimnetic oxygen minimum zones decouple diffusive CH₄ and CO₂ fluxes from seasonal turnover in a eutrophic reservoir*. Ecological Society of America Annual Meeting, August 2017. Portland, Oregon.
- 2017 **M.E. Lofton**, **R.P. McClure**, S. Chen, C.W. Harrell, J.P. Doubek, N.K. Ward, M.E. Schreiber and C.C. Carey. *Storms can both stimulate and inhibit phytoplankton communities: Lessons from a whole-ecosystem lake mixing experiment*. Ecological Society of America Annual Meeting, August 2017. Portland, Oregon.
- 2017 **J.P. Doubek**, K.L. Campbell, K.M. Doubek, K.D. Hamre, C.W. Harrell, M.E. Lofton, **R.P. McClure**, N.K. Ward and C.C. Carey. *Hypoxia-induced trade-offs on zooplankton vertical distribution and community structure in reservoirs*. Ecological Society of America Annual Meeting, August 2017. Portland, Oregon.
- 2017 **R.P. McClure**, M.E. Lofton, S. Chen, N.K. Ward, J.P. Doubek, C.W. Harrell, K. Kruger, B.R. Neiderlehner, M.E. Schreiber and C.C. Carey. *Management Alters Carbon Dioxide and Methane Dynamics within Drinking Water Reservoirs*. Virginia Water Conference, March 2017. Richmond, Virginia.
- 2017 **J.P. Doubek**, K.L. Campbell, K.M. Doubek, K.D. Hamre, C.W. Harrell, M.E. Lofton, **R.P. McClure**, N.K. Ward and C.C. Carey. *Hypoxia-induced trade-offs on zooplankton vertical distribution and community structure in reservoirs*. Virginia Water Conference, March 2017. Richmond, Virginia.
- 2017 **M.E. Lofton**, **R.P. McClure**, S. Chen, C.W. Harrell, J.P. Doubek, N.K. Ward, M.E. Schreiber and C.C. Carey. *Effects of Epilimnetic Mixing on Algae Populations: Implications for Management*. Virginia Water Conference, March 2017. Richmond, Virginia.
- 2017 **J.P. Doubek**, K.L. Campbell, K.M. Doubek, K.D. Hamre, C.W. Harrell, M.E. Lofton, **R.P. McClure**, N.K. Ward and C.C. Carey. *Hypoxia-induced trade-offs on zooplankton vertical distribution and community structure in reservoirs*. Biological Sciences Research Day Invited Oral Presentations, February 2017. Blacksburg, Virginia.
- 2017 **M.E. Lofton**, **R.P. McClure**, S. Chen, C.W. Harrell, K. Kruger, M.E. Schreiber, J.C. Little and C.C. Carey. *Simulated storms upend phytoplankton community structure: lessons from a whole ecosystem lake mixing experiment*. Biological Sciences Research Day Breakout Oral Sessions, February 2017. Blacksburg, Virginia.

- 2016 **R.P. McClure**, A.B. Gerling, J.P. Doubek, Z.W. Munger, M.S. Schreiber, P.A. Gantzer, J.C. Little and J. Morris. *Controlling Water Quality with Hypolimnetic Oxygenation in a Small, Eutrophic Reservoir*. Virginia Water Environment Association WaterJAM conference, September 2016. Virginia Beach, Virginia.
- 2016 **R.P. McClure**, K.D. Hamre, J.P. Doubek, Z.W. Munger, B.R. Neiderlehner and C.C. Carey. *Dynamic responses of greenhouse gases whole ecosystem manipulations in a eutrophic reservoir*. Global Change Center Graduate Student Research Symposium, April 2016. Blacksburg, Virginia. * Received 3rd place presentation award.
- 2016 **R.P. McClure**, K.D. Hamre, J.P. Doubek, Z.W. Munger, B.R. Neiderlehner and C.C. Carey. *Dynamic responses of greenhouse gases to water quality management in a eutrophic reservoir*. Virginia Water Conference, March 2016. Richmond, Virginia.
- 2016 **R.P. McClure**, K.D. Hamre, J.P. Doubek, Z.W. Munger, B.R. Neiderlehner and C.C. Carey. *Dynamic responses of greenhouse gases to whole ecosystem manipulations in a eutrophic reservoir*. Department of Biological Sciences Research Day, February 6, 2016. Blacksburg, Virginia. * Received 1st place breakout session oral presentation award.
- 2016 J.P. Doubek, K.A. Bierlein, A.B. Gerling, K.D. Hamre, **R.P. McClure**, Z.W. Munger, R.J. Figueiredo, P.C. Hanson, C.C. Carey. *Hypoxia induced trade-offs on zooplankton vertical distribution and community structure in Virginia reservoirs*. Oral presentation. Virginia Water Conference, March 2016. Richmond, Virginia.
- 2016 K.D. Hamre, A.B. Gerling, Z.M. Munger, J.D. Doubek, **R.P. McClure**, K.L. Cottingham, and C.C. Carey. *Environmental drivers of algal recruitment along a reservoir continuum*. Oral Presentation. Virginia Tech Biological Sciences Research Day, February 6, 2016. Blacksburg, Virginia.

POSTER PRESENTATIONS

- 2018 **R.P. McClure**, M.E Lofton, K.M. Kruger, L.J. Finegold, S. Chen, M.E. Schreiber, and C.C. Carey. *Hypolimnetic oxygenation may increase methane ebullition at the deepest site in a eutrophic drinking water reservoir*. Biological Sciences Research Day Poster Presentations, February 2018. Blacksburg, Virginia.
- 2017 **R.P. McClure**, M.E Lofton, K.M. Kruger, L.J. Finegold, S. Chen, M.E. Schreiber, and C.C. Carey. *Hypolimnetic oxygenation may increase methane ebullition at the deepest site in a eutrophic drinking water reservoir*. GLEON 19, All Hands Conference, November 2017 Mohonk Mountain House, New York USA.
- 2017 M.E. Lofton, **R.P. McClure**, S. Chen, C.W. Harrell, J.P. Doubek, N.K. Ward, M.E. Schreiber, J.C. Little and C.C. Carey. *Storms can both stimulate and inhibit phytoplankton communities: lessons from a whole-ecosystem lake mixing experiment*. GLEON 19, All Hands Conference, November 2017 Mohonk Mountain House, New York USA.

- 2017 J.P. Doubek, K.C. Campbell, M.E. Lofton, **R.P. McClure**, and C.C. Carey. *Hypolimnetic anoxia intensifies the variability of crustacean zooplankton communities across four reservoirs*. GLEON 19, All Hands Conference, November 2017 Mohonk Mountain House, New York USA.
- 2017 ^{UG}L.J. Finegold, **R.P. McClure**, M.E. Schreiber, and C.C. Carey. *Epilimnetic mixing increases methane ebullition fluxes in a small eutrophic drinking water reservoir*. Virginia Tech Undergraduate Research Symposium, July 2017, Blacksburg, Virginia USA.
- 2017 **R.P. McClure**, M.E. Lofton, K.D. Hamre, B.R. Niederlehner, Z.M. Munger, S. Chen, J.P. Doubek, M.E. Schreiber, and C.C. Carey. *Metalimnetic oxygen minimum zones decouple diffusive methane and carbon dioxide fluxes from seasonal turnover in a eutrophic reservoir*. Pacific Rim Applications and Grid Middleware Assembly (PRAGMA) 32 conference, Gainesville, Florida, April 2017.
- 2017 M.E. Lofton, **R.P. McClure**, S. Chen, C.W. Harrell, J.P. Doubek, N.K. Ward, M.E. Schreiber, J.C. Little and C.C. Carey. *Storms can both stimulate and inhibit phytoplankton communities: lessons from a whole-ecosystem lake mixing experiment*. Pacific Rim Applications and Grid Middleware Assembly (PRAGMA) 32 conference, Gainesville, Florida, April 2017.
- 2017 **R.P. McClure**, M.E. Lofton, K.D. Hamre, B.R. Neiderlehner, Z.W. Munger, S. Chen, J.P. Doubek, M.E. Schreiber and C.C. Carey. *Metalimnetic oxygen minima accumulate dissolved methane and may alter diffusive efflux in a managed eutrophic reservoir*. Interfaces of Global Change Annual Symposium, April 2018, Blacksburg, Virginia.
- 2017 **R.P. McClure**, K.D. Hamre, B.R. Neiderlehner, Z.W. Munger, S. Chen, M.E. Schreiber and C.C. Carey. *Metalimnetic oxygen minimum zones decouple diffusive CH₄ and CO₂ fluxes from seasonal turnover in a eutrophic reservoir*. Biological Sciences Research Day Poster Presentations, February 2017. Blacksburg, Virginia.
- 2016 **R.P. McClure**, J.P. Doubek, K.D. Hamre, Z.W. Munger, B.R. Neiderlehner and C.C. Carey. *Metalimnetic oxygen minima accumulate methane in the water column and alter greenhouse gas efflux phenology from a eutrophic reservoir*. GLEON 18, All Hands Conference, June 2016. Gaming, Austria.
- 2015 **R.P. McClure**, J.P. Doubek, Z.W. Munger, B.R. Neiderlehner and C.C. Carey. *Dynamic responses of greenhouse gases to whole-ecosystem manipulations in a eutrophic reservoir*. GLEON 17, All Hands Conference, October 2015. Chuncheon, South Korea.
- 2015 **R.P. McClure**, C. Chen, K.D. Hamre, C.W. Harrell, Z.W. Munger, B.R. Neiderlehner and C.C. Carey. *Dynamic responses of greenhouse gases to whole-ecosystem manipulations in a eutrophic reservoir*. International Water Association Symposium, August 2015. Mountain Lake, Virginia.
- 2012 **R.P. McClure**, W.F. Cross, J.M. Hood, J.R. Junker, J.P. Benstead, A. Keasberry, D. Nelson. *Effects of temperature and body size on instantaneous growth rate of *Radix peregra* in Icelandic streams*. Montana State University Undergraduate Research Day, December 2012. Bozeman, Montana.

^{UG} = Undergraduate Student

FELLOWSHIPS

- 2018 Department of Biological Sciences GSDA Fellow. Blacksburg, Virginia (Virginia Tech)
*Awarded for Spring 2019 Semester
- 2017 Interfaces of Global Change Fellow. Blacksburg, Virginia (Virginia Tech)
*Awarded for 2017-2018 academic year
- 2016 Interfaces of Global Change Fellow. Blacksburg, Virginia (Virginia Tech)
*Appointed 2016 Social Chair
- 2015 Western Virginia Water Authority Fellow. Blacksburg, Virginia (Virginia Tech)
*Appointed from 2015-2017
- 2012 NSF – REU Student Fellowship. Reykjavik, Iceland (Montana State)
*Awarded for Summer 2012

FUNDING AND AWARDS

- 2018 1st Place oral presentation; Global Change Center Research Symposium, Virginia Tech
Honorable Mention: Dave Pearson Watershed Excellence Award, Virginia Water Conference
- 2017 Mary and George Schaeffer Stream Team Excellence Award; \$1000
GLEON 18 and 19 Travel Grants; ~\$2000
Runner-up of the 2016-2017 Sigma Xi Ph.D. Research Award
3rd Place poster presentation; Biological Sciences Research Day, Virginia Tech
- 2016 Global Change Center SEED Grant, *co-author*; \$5000
Virginia Tech Graduate Research Development Program (GRDP); \$1000
Virginia Lakes and Watershed Association, Leo Bourassa Scholarship; \$2000
3rd Place oral presentation; Global Change Center Research Symposium, Virginia Tech
1st Place oral presentation; Biology Research Day, Virginia Tech
- 2015 NSF Science Across Virtual Institutes (SAVI) Travel Grant; \$900

ADVISING AND TEACHING EXPERIENCE

- Undergraduate internship advisor; Beatrice Scott (Barnard College, New York)
- NSF-REU Student Fellowship Mentor; Leah J. Finegold (Oberlin College, Ohio)
- Undergraduate internship advisor; Miles Goodall (Virginia Tech, Virginia)
- Project EDDIE Undergraduate lake modeling and teleconnections workshop, November 2017. Virginia Tech, Virginia
- Project EDDIE Undergraduate lake modeling workshop, October 2017. Virginia Tech, Virginia
- Project EDDIE Undergraduate lake modeling workshop, August 2016. Virginia Tech, Virginia

OUTREACH

- Virginia Science Festival Interfaces of Global Change Exhibit
Virginia Tech, Blacksburg VA, USA. October 27, 2018
- Virginia Science Festival Interfaces of Global Change Exhibit
Virginia Tech, Blacksburg VA, USA. November 4, 2017
- Gilbert Linkous Science Fair Interfaces of Global Change Exhibit
Gilbert Linkous Elementary School, Blacksburg VA, USA. March 15, 2017

RESEARCH AND COMMUNICATION WORKSHOP PARTICIPATION

- American Geophysical Union (AGU) $p\text{CO}_2$ sensor workshop
Grand Hyatt, 1000 H St NW, Washington D.C., December 9, 2018
- GLEON 19 Graduate Student Association Workshop; Machine Learning and ggplot2 in R
Mohonk Mountain House NY, USA, November 27, 2017.
- Susan B. Hassol Communicating Climate Science Workshop
Virginia Tech, Blacksburg VA, USA, November 3, 2017
- Ecological Society of America Fostering Creativity Workshop
Portland Oregon, USA, August 12, 2017.
- General Lake Model – Aquatic Eco-Dynamics (GLM-AED) Workshop
Madison WI, USA, January 9 – 12, 2017.
- GLEON 18 Graduate Student Association Workshop; Data management and lake physics in R
Lunz and Gaming, Austria, July 3, 2016.
- Forestry Graduate Student Association Plotting in R workshop
Cheatum Hall Virginia Tech, Blacksburg VA, USA. April 8, 2016.
- Website development workshop
Latham Hall Virginia Tech, Blacksburg VA, USA. Friday February 25, 2016.
- GLEON 17 Graduate Student Association Workshop; Lake Modeling and GRAPLER training
Chuncheon, South Korea. Monday, October 12, 2015
- Science Communication Workshop; Alan Alda Center for Communicating Science
Skelton Center Virginia Tech, Blacksburg VA, USA. Friday, October 30, 2015
- GRAPLE (GLEON Research And PRAGMA Lake Expedition) Workshop at Virginia Tech
June 15 – 20, 2015.

RESEARCH POSITIONS HELD

- Freshwater Science Research Technician: June – August 2015
Biological Sciences, Virginia Tech VA
Location: Blacksburg, Virginia
(Dr. Cayelan C. Carey)
- Evolutionary Sciences Research Internship: December 2014– March 2015
The Guppy Project, University of California, Riverside CA
Location: Trinidad and Tobago, West Indies
(Dr. David N. Reznick)

- Ecology Research Technician: June – September 2014
Montana State University, Bozeman MT
Location: Yellowstone & Missouri Rivers, Fort Lewis, MT
(Dr. Wyatt F. Cross)
- Ecology REU Scholarship: June – August 2012
Montana State University, Bozeman MT
Location: Reykjavik, Iceland
(Dr. Wyatt F. Cross and Dr. James M. Hood II)
- Freshwater Ecology Lab Technician: 2008 – 2012
Montana State University, Bozeman MT
Location: Yellowstone National Park
(Dr. Wyatt F. Cross and James R. Junker)

SKILLS

- Field skill Swift Water Rescue Technician (II), Wilderness First Aid and CPR
- Programming Code in R and MATLAB platforms
- Teaching Montana State Smarty Cat, Biology and Chemistry Tutor, 2012

CURRENT SOCIETAL MEMBERSHIPS

- American Geophysical Union (AGU)
- Ecological Society of America (ESA)
- Global Lake Ecological Observatory Network (GLEON)
- Virginia Lakes and Watershed Association (VLWA)
- North American Lake Management Society (NALMS)