

STEVEN A. THOMAS
CURRICULUM VITAE

PROFESSIONAL APPOINTMENTS:

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| 2018-present | Professor, University of Nebraska |
| 2012-2018 | Associate Professor, University of Nebraska |
| 2006-2012 | Assistant Professor, University of Nebraska |
| 2013-2016 | Visiting Scientist, Universidade do Estado do Rio de Janeiro (Rio de Janeiro State University) |
| 2009-2016 | Adjunct Faculty, Colorado State University |
| 2004-2005 | Postdoctoral Fellow, Cornell University |
| 2003 | Research Hydrologist, Eco-metrics, Inc. |
| 2000-2003 | Postdoctoral Fellow, Virginia Tech |

EDUCATION:

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| University of New Hampshire | Major: Botany | BS: 1987 |
| University of Wyoming | Major: Zoology | MS: 1991 |
| Idaho State University | Research focus: Stream Ecology | PhD: 2000 |

AWARDS:

- 2011 UNL Parents Association "Certificate of Recognition for Contributions to Students"
2010 Young Researcher Award, Agricultural Research Division, Institute of Agriculture and Natural Sciences, University of Nebraska.

GRANTS:

- Corman, J., E.K. Moody, H. M. Halvorson, C. Wagner, A. Krist, S.M. Collins, K. Anania, J.L. Clark, S.A. Thomas, .S. Costanza-Robinson, C. Martinez del Rio, and E.M. Pierce. RIITrack-2 FEC: From Genes to Ecosystems: Harnessing Elemental Data to Detect Stoichiometric Control-Points and Their Consequences for Organismal Evolution. National Science Foundation. 2021-2024. \$5,987,352
- Corman, J., C. Chizinski, and S.A. Thomas. StreamNet: Building capacity to improve water quality. Nebraska Environmental Trust. 2020-2023. \$491,726.
- Dunigan, D.D., J. Corman, S. A. Thomas, T Power, M Harner, M. Forsberg. Adapt or Die – A Story of the Exotic Alkaline Lakes of the Western Nebraska Sandhills. University of Nebraska Collaborative Initiative Seed Grant. \$298,000. 2019-2020.
- Wedin, D, S.A. Thomas, and J.Wu-Smart. Prairie Corridor Phase III. Nebraska Environmental Trust. Sub award from Lincoln Parks and Recreation. 2019-2021. \$175,632
- Thomas, S.A., and D.G.F. Cunha. 2018-2020. Understanding the influence of land use practices and canopy cover restoration on nutrient spiraling in tropical and temperate stream ecosystems. FAPESP-SPRINT. \$40,000

- Lopes-Sepulcre, A., S.A. Thomas, R. El-Sabaawi, and S. R. Collins. 2017-2020. The ecosystem effects of a rapidly evolving invader: A novel framework for the experimental study of nutrient cycles. Academy of Finland. \$540,000.
- Thomas, S.A. 2011-2016. Dimensions in Biodiversity: Collaborative Research: An integrative traits-based approach to predicting variation in vulnerability of tropical and temperate stream biodiversity to climate change. NSF-Dimensions in Biodiversity, DEB-1046408. Total Budget \$3,000,000.
- Thomas, S.A., with E. Zandona and T. Moulton. 2013-2015. Interaction between riparian vegetation and rivers: lateral and longitudinal patterns in the ecological structure and function of rivers. Visiting scientist through d E awarded to the State University of Rio de Janeiro (UERJ), budget \$72,665 + per diem support for S.A. Thomas and stipends for a postdoctoral fellow and a PhD student, administered through UERJ.
- Thomas, S.A. Understanding cyanobacteria blooms in Willow Creek Reservoir. Lower Elkhorn Natural Resource District and the Nebraska Environmental Trust. \$79,000. 2013-2014.
- Burgin, A, T. Loecke, D. Riveros-Iregui, and S. Thomas. 2012-2013. RAPID: Using a drought-enhanced nitrate pulse to understand stream N retention and processing. NSF-Ecosystems Total Budget \$200,000.
- Thomas, S.A. and K. Hoagland. 2011-2013. Examining Toxic Cyanobacterial Blooms in Nebraska Reservoirs: Landscape Controls and Within-Reservoir Mechanisms. Nebraska Department of Environmental Quality. Total Budget \$303,728.
- Thomas, S.A. 2011-2016. Analyzing Chlorophyll a in selected Nebraska Reservoirs. Continuous contract at \$3,000 per annum
- Allen C. and 19 others. 2009-2012. Resilience and adaptive governance in stressed watersheds. NSF-IGERT. Total Budget \$3,100,000.
- Reznick, D., S.A. Thomas and 8 others. 2006-2011. From genes to ecosystems: How do ecological and evolutionary processes interact in nature? NSF-FIBR, DEB-0623632. Total Budget \$5,000,002.
- Thomas, S. A. 2007-2009. Collaborative Research: Nutrient Processing and Retention in Streams - A Stoichiometric Approach to Coupled N and P Cycling. NSF-Ecosystems DEB-0715117. Total Budget \$51,345
- Thomas, S.A. 2006-2009. Ecological responses to stream bank stabilization in the Cedar River. Nebraska Department of Environmental Quality. Total Budget \$153,000.
- Schade, J.S. S.A. Thomas, Mary Power, Jacques Finlay, Jill Welter. 2006-2009. Coupling consumer-resource interactions and nutrient spiraling in a stream network. NSF-Ecosystems DEB-0543363 \$625,000.
- Goodale, C. and S.A. Thomas. 2005-2008. The fate of nitrate entering a coupled terrestrial-aquatic ecosystem in the Upper Susquehanna Basin: a pilot tracer experiment. Agricultural Ecology Program of Cornell University. Total Budget \$60,000
- Valett, H.M., S.A. Thomas, and E.F. Benfield. 2004-2005. Stream-riparian corridors - disturbance, linkages, and resistance. NSF-Ecosystems. \$98,000.

J. Meyer, G. Poole, S.A. Thomas, C. Tague, and L. Leff. 2004-2005. Geomorphic, hydrologic, and microbiological networks in integrated terrestrial/aquatic biological systems. NSF-FIBR Incubation Grant. \$50,000.

S.A. Thomas, G. Poole and J. Webster. 2003. Nutrient and pesticide flux within a floodplain aquifer. Funding source: USEPA through the Confederated Tribes of the Umatilla Indian Reservation. \$50,000

PEER-REVIEWED PUBLICATIONS:

- 2020 Shah, A.A., H.A. Woods, J.C. Havird, A.C. Encalada, A.S. Flecker, W.C. Funk, J.M. Guayasamin, B.K. Kondratieff, N. L. Poff, **S.A. Thomas**, K.R. Zamudio, C.K. Ghalambor. Temperature-dependance of metabolic rate in tropical and temperate aquatic insects: support for the Climate Variability Hypothesis in mayflies but not stoneflies. *Global Change Biology*. doi.org/10.1111/gcb.15400
- 2020 Cunha, D.G.F., N. R. Finkler, N. Gómez, J. Cochero, J.L. Donadelli, W. A. Saltarelli, M. C. Calijuri, A.C.P. Miwa, F. Tromboni, W. K. Dodds, I. G. Boëchat, B. Gücker, and **S. A. Thomas**. Agriculture influences ammonium and soluble reactive phosphorus retention in South-American headwater streams. *Ecohydrology*. 13:e2184. [DOI: 10.1002/eco.2184](https://doi.org/10.1002/eco.2184).
- 2020 Lopez-Sepulcre, A., M. Bruneaux, R. El-Sabaawi, S.M. Collins, A. S. Flecker, and **S.A. Thomas**. A new method to reconstruct quantitative food webs and nutrient flows from isotope tracer addition experiments. *American Naturalist*. Vol. 195, pp. 964–982. [DOI: 10.1086/708546](https://doi.org/10.1086/708546).
- 2020 Silva-Araújo, M., E. F Silva-Junior, V. Neres-Lima, R. Feijó-Lima, F. Tromboni, C. Lourenço-Amorim, **S.A. Thomas**, T. P Moulton, E. Zandonà. Effects of riparian deforestation on benthic macroinvertebrate community and leaf processing in Atlantic forest streams. *Perspectives in Ecology and Conservation*. doi.org/10.1016/j.pecon.2020.09.004
- 2019 Bastias, E., M. Bolivar, M Ribot, M. Peipoch, **S.A. Thomas**, F. Sabater, and E. Marti. 2019. Spatial heterogeneity in water velocity drives leaf litter dynamics. *Freshwater Biology*. [DOI: 10.1111/fwb.13436](https://doi.org/10.1111/fwb.13436)
- 2019 Feijo-Lima, R., E. Zandona, B.S. Silva, F. Tromboni, T.P Moulton, and **S.A. Thomas**. Longitudinal dimensions of land-use impacts in riverine ecosystems. *Acta Limnologica Brasiliensia* 31 e107. doi.org/10.1590/s2179-975x4519
- 2019 Tromboni, F.; C. Lourenço-Amorim, V. Neres-Lima, **S.A. Thomas**, M. Silva-Araujo, Monalisa, R, Feijo-Lima, E.F. Silva, T. Heatherly, T.P. Moulton, E. Zandona. Conversion of tropical forests to agriculture alters the accrual, stoichiometry, nutrient limitation, and taxonomic composition of stream periphyton. *International Review of Hydrobiology*. 104 (5-6): 116-126. [DOI: 10.1002/iroh.201801963](https://doi.org/10.1002/iroh.201801963)
- 2019 Atkinson, C.L., A. V. Alexiades, K.L MacNeill, A.C. Encalada, **S.A. Thomas**, and A.S. Flecker. Nutrient recycling by insect and fish communities in high-elevation tropical streams. *Hydrobiologia*. 838(1):13-28. [DOI: 10.1007/s10750-019-03973-9](https://doi.org/10.1007/s10750-019-03973-9)
- 2019 Simon, T.N., A.J. Binderup, A.S. Flecker, J.F. Gilliam, M.C. Marshall, **SA Thomas**, J. Travis, D.N. Reznick, C.M. Pringle. Landscape Patterns in top-down control of

- decomposition: omnivory disrupts a tropical detrital-based trophic cascade. *Ecology* 100(7). DOI: [10.1002/ecy.2723](https://doi.org/10.1002/ecy.2723)
- 2018 Polato, Nicholas R., Brian A. Gill, Alisha A. Shah, Miranda M. Gray, Kayce L. Casner, Antoine Barthelet, Philipp W. Messer, Mark P. Simmons, Juan M. Guayasamin, Andrea C. Encalada, Boris C. Kondratieff, Alexander S. Flecker, **Steven A. Thomas**, Cameron K. Ghalambor, N. LeRoy Poff, W. Chris Funk, Kelly R. Zamudio. Narrow thermal tolerance and low dispersal drive higher speciation in tropical mountains. *Proceedings of the National Academy of Sciences*. Dec 2018, 115 (49) 12471-12476; DOI: [10.1073/pnas.1809326115](https://doi.org/10.1073/pnas.1809326115)
- 2018 Atkinson, CL, AC Encalada, , AT Rugenski, SA Thomas, A Landeira-Dabarca, NL Poff, AS Flecker, Determinants of food resource assimilation by stream insects along a tropical elevation gradient. *Oecologia*, 187(3) 731-744. DOI: [10.1007/s00442-018-4142-2](https://doi.org/10.1007/s00442-018-4142-2)
- 2018 Tromboni, F., Thomas, S., Lourenço-Amorim, C., Gücker, B., Moulton, T. P., Silva-Junior, E. F., Feijó De Lima, R., Boëchat, I. G., Neres-Lima, V., Zandonà., E. (in press). Nutrient limitation and the stoichiometry of nutrient uptake in a tropical rainforest stream. *Biogeosciences*. DOI: [10.1029/2018JG004538](https://doi.org/10.1029/2018JG004538)
- 2018 Feijo-Lima, R., S.M. McCleay, E.F. Silva-Junior, F. Tromboni, T.P. Moulton, E. Zandona, and S.A. Thomas. Quantitatively describing the downstream effects of an abrupt land cover transition: buffering effects of a forest remnant on a stream impacted by cattle grazing. *Inland Waters*. DOI: [10.1080/20442041.2018.1457855](https://doi.org/10.1080/20442041.2018.1457855)
- 2018 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, S.M. Collins, C.L. Crenshaw, T. Crowl, N.A. Griffiths, N. Grimm, S.K. Hamilton, S. Johnson, W.H. McDowell, B.C. Norman, E.J. Rosi, 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. *Ecological Monographs*. 88(1) 120-138. DOI: [10.1002/ecm.1280](https://doi.org/10.1002/ecm.1280)
- 2017 Norman, B.C., M. R. Whiles, S. M. Collins, A. S. Flecker, S. K. Hamilton, S. L. Johnson, E. J. Rosi-Marshall, L. R. Ashkenas, W. B. Bowden, C. L. Crenshaw, T. Crowl, W. K. Dodds, R. O. Hall, R. El-Sabaawi, N. A. Griffiths, E. Marti, W. H. McDowell, S. D. Peterson, H. M. Rantala, T. Riis, K. S. Simon, J. L. Tank, Thomas, S. A. Thomas, D. von Schiller, and J. R. Webster. Drivers of nitrogen transfer in stream food webs across continents. *Ecology*. 98(12), 3044-3055. DOI: [10.1002/ecy.2009](https://doi.org/10.1002/ecy.2009)
- 2017 Zandona, E, C.M. Dalton, R.W. El-Sabaawi, J.L. Howard, M.C. Marshall, S.S. Kilham, D.N. Reznick, J. Travis, T.J. Kohler, A.S. Flecker, S.A. Thomas and C.M. Pringle. Population variation in the trophic niche of the Trinidadian guppy from different predation regimes. *Scientific Reports*. 7(1) 1-11. DOI: [10.1038/s41598-017-06163-6](https://doi.org/10.1038/s41598-017-06163-6).
- 2017 Brookshire, E.N.J., S. Gerber, W. Greene, R.T. Jones and S.A. Thomas. Global bounds on nitrogen gas emissions from humid tropical forests. *Geophysical Research Letters* 44(5) 2502-2510. DOI: [10.1002/2017GL072867](https://doi.org/10.1002/2017GL072867)
- 2017 Loecke, T.D., A.J. Burgin, D. Riveros-Iregui, A.S. Ward, S.A. Thomas, C.A. Davis, M.A. St Clair. Weather whiplash in agricultural regions drives deterioration of water quality. *Biogeochemistry* 133(1) 7-15. DOI: [10.1007/s10533-017-0315-z](https://doi.org/10.1007/s10533-017-0315-z)

- 2017 Simon, T.N., R.D. Bassar, A.J. Binderup, A.S. Flecker, M.C. Freeman, J.F. Gilliam, M.C. Marshall, S.A. Thomas, J. Travis, D.N. Reznick, C.M. Pringle. Local adaptation in Trinidadian guppies alters stream ecosystem structure at landscape scales despite high environmental heterogeneity. *Copeia* 105(3) 504-513. DOI: [10.1643/CE-16-517](https://doi.org/10.1643/CE-16-517)
- 2017 Shah, A.A., B.A. Gill, A.C. Encalada, A.S. Flecker, W.C. Funk, J.M. Guayasamin, B.C. Kondratieff, N.L. Poff, S.A. Thomas, K.R. Zamudio, and C. K. Ghalambor. Climate Variability predicts thermal limits of aquatic insects across elevation and latitude. *Functional Ecology*. 31: 2118-2127. DOI: [10.1111/1365-2435.12906](https://doi.org/10.1111/1365-2435.12906)
- 2016 Lessmann, J., J. M. Guayasamin, K. L. Casner, A. S. Flecker, W. C. Funk, C. K. Ghalambor, B. A. Gill, I. Jácome-Negrete, B. C. Kondratieff, L. N. Poff, J. Schreckinger, S. A. Thomas, E. Toral-Contreras, K. R. Zamudio & A. C. Encalada. Freshwater vertebrate and invertebrate diversity patterns in an Andean-Amazon basin: implications for conservation efforts, *Neotropical Biodiversity*, 2:1, 99-114, DOI:[10.1080/23766808.2016.1222189](https://doi.org/10.1080/23766808.2016.1222189)
- 2016 Collins, SM, SA Thomas, T Heatherly, K MacNeill, A Leduc, A Lopez-Sepulcre, B Lamphere, R El-Sabaawi, DN Reznick, C Pringle, and AS Flecker. Fish introductions and light modulate food web fluxes in tropical streams: a whole-ecosystem experimental approach. *Ecology*. 97(11): 3154-3166.
- 2016 Reynolds, KN, TD Loecke, AJ Burgin, CA Davis, D Riveros-Iregui, SA Thomas, MA St. Clair, and AS Ward. Optimizing sampling strategies for riverine nitrate using high-frequency data in agricultural watersheds. *Environmental Science and Technology*, 50(12) 6406-6414. DOI: [10.1021/acs.est.5b05423](https://doi.org/10.1021/acs.est.5b05423)
- 2016 Gill, BA, BC Kondratieff, KL Casner, AC Encalada, AS Flecker, DG Gannon, CK Ghalambor, JM Guaysamin, NL Poff, MP Simmons, SA Thomas, KR Zamudio, and W.C. Funk. Cryptic species diversity reveals biogeographic support for the 'mountain passes are higher in the tropics' hypothesis. *Proceedings of the Royal Society B-Biological Sciences*. 283(1832). DOI: [10.1098/rspb.2016.0553](https://doi.org/10.1098/rspb.2016.0553)
- 2016 Collins, SM. TK Kohler, SA Thomas, WW Fetzer, and AS Flecker. The importance of terrestrial subsidies in stream food webs varies along a stream size gradient. *Oikos* 125(5) 674-685. DOI: [10.1111/oik.02713](https://doi.org/10.1111/oik.02713)
- 2016 Collins, SM, JP Sparks, SA Thomas, SA Wheatley, and AS Flecker. Increased Light Availability Reduces the Importance of Bacterial Carbon in Headwater Stream Food Webs. *Ecosystems* 19(3) 396-410. DOI: [10.1007/s10021-015-9940-3](https://doi.org/10.1007/s10021-015-9940-3).
- 2016 Lisboa, L.K., S.A. Thomas, and T.P. Moulton. Reviewing carbon spiraling approach to understand organic matter movement and transformation in lotic ecosystems. *Acta Limnologica Brasiliensia*. 28(14). DOI: [10.1590/S2159-975X2116](https://doi.org/10.1590/S2159-975X2116).
- 2015 Goodale, CL, G Fredriksen, MS Wiess, CK McCalley, JP Sparks, and SA Thomas. Soil processes drive seasonal variation in retention of N-15 tracers in a deciduous forest catchment. *Ecology* 96(10) 2653-2668.
- 2015 El-Sabaawi, Rana; R. Bassar, C, Rakowski, S. Thomas, M. Marshall, C. Pringle, B. Bryan, D. Reznick, and A. Flecker. Intraspecific phenotypic differences in fish affect ecosystem processes as much as bottom-up factors. *Oikos*. 4(9): 1505-1515. doi: [10.1111/oik.01769](https://doi.org/10.1111/oik.01769)

- 2015 Bassar, RD, TN Heatherly, MC Marshall, SA Thomas, AS Flecker, and DN Reznick. Population size-structure-dependent fitness and ecosystem consequences in Trinidadian guppies. *Journal of Animal Ecology*. 84:4 955-968 [DOI: 10.1111/1365-2656.12353](https://doi.org/10.1111/1365-2656.12353)
- 2014 Dodds, W. K., SM Collins, SK Hamilton, JL Tank, S Johnson, JR Webster, KS Simon, MR Whiles, HM Rantala, WH McDowell, SD Peterson, T Riis, CL Crenshaw, SA Thomas, PB Kristensen, BM Cheever, AS Flecker, NA Griffiths, T Crowl, EJ Rosi-Marshall, R El-Sabaawi, and E. Marti. You are not always what we think you eat: selective assimilation across multiple whole-stream isotopic tracer studies. *Ecology*. 95(10) 2757-2767. [DOI: 10.1890/13-2276.1](https://doi.org/10.1890/13-2276.1)
- 2014 Davis, CA, AS Ward, AJ Burgin, TD Loecke, DA Riveros-Iregui, DJ Schloebelen, CL Just, SA Thomas, LJ Weber, MA St Clair. Antecedent Moisture controls on Stream Nitrate Flux in an Agricultural Watershed. *Journal of Environmental Quality*. 43(5): 1822-1832. [DOI 10.2134/jeq2013.11.0438er](https://doi.org/10.2134/jeq2013.11.0438er)
- 2013 Brookshire, E.N.J., and S.A. Thomas. Ecosystem Consequences of Tree Monodominance for Nitrogen Cycling in Lowland Tropical Forest. *PLoS One* 8(7): e70491. [doi:10.1371/journal.pone.0070491](https://doi.org/10.1371/journal.pone.0070491)
- 2013 Cheever, B., J.R. Webster E.E. Kratzer and S.A. Thomas. The relative importance of exogenous and substrate derived nitrogen for microbial growth during leaf decomposition. *Ecology*, 94(7):1614-1625.
- 2012 Kohler T.J., Thomas N. Heatherly, II, Rana W. El-Sabaawi, Eugenia Zandonà, Michael C. Marshall, Alexander S. Flecker, Catherine M. Pringle, David N. Reznick, and Steven A. Thomas Flow, nutrients, and light availability influence Neotropical epilithon biomass and stoichiometry. *Freshwater Science* Vol. 31, No. 4, pp. 1019-1034.
- 2012 Auer, S., Andrés Lopez-Sepulcre, Thomas Heatherly II, Tyler J. Kohler, Ronald D. Bassar, Steven A. Thomas and David N. Reznick. Life histories have a history: Effects of past and present conditions on adult somatic growth rates in wild Trinidadian guppies. *Journal of Animal Ecology* 81(4) 818-826.
- 2012 El-Sabaawi R, T.J. Kohler. E. Zandona, J. Travis, M.C. Marshall, S.A. Thomas. D.N. Reznick, M. Walsh, J.F. Gilliam, C.P. Pringle, and A.S. Flecker. Environmental and Organismal Predictors of Intraspecific Variation in Stoichiometry of a Neotropical Freshwater Fish. *PLoS ONE* 7(3): e32713. [doi:10.1371/journal.pone.0032713](https://doi.org/10.1371/journal.pone.0032713).
- 2012 El-Sabaawi, R.W., E. Zandonà, T.J. Kohler, M.C. Marshall, J.M. Moslemi, J. Travis, A. López-Sepulcre, Regis Ferrière, Catherine M. Pringle Steven A. Thomas, David N. Reznick: Alexander S. Flecker Patterns of wide intraspecific organismal stoichiometry among populations of the Trinidadian guppy (*Poecilia reticulata*). *Functional Ecology* 26(3) 666-676.
- 2011 Schade, J.D., K. MacNeill, S.A. Thomas, F.C. Mcneely, J.R. Welter, J. Hood, M. Goodrich, M.E. Power, and J.C. Finlay. The stoichiometry of nitrogen and phosphorus spiraling in heterotrophic and autotrophic streams. *Freshwater Biology*, 56(3) 424-436.
- 2010 Bassar, R. D., M. M. Marshall, A. Lopez-Supulcre, E. Zandona, S.K.Auer, J. Travis, C.M. Pringle, A.S. Flecker, S.A. Thomas, D. F. Fraser, D.N. Reznick. Local adaptation in

- Trinidadian guppies. *Proceedings of the National Academy of Sciences of the United States of America* 107(8): 3616-3621.
- 2009 Webster, J.R., J.D Newbold, S.A Thomas, H.M Valett, and P.J. Mulholland. Nutrient Uptake and Mineralization during Leaf Decay in Streams - a Model Simulation. *International Review of Hydrobiology* 94(4): 371-390.
- 2009 Goodale, C, S.A. Thomas, G. Fredricksen, E.M. Elliot, M. Flinn, and T.J. Butler. Unusual seasonal patterns and inferred processes of nitrogen retention in forested headwater catchments of the Upper Susquehanna basin. *Biogeochemistry*. 93:197-218.
- 2008 Thomas, S.A. and J. Cebrian. Ecological Stoichiometry: Ecosystem Patterns and Processes. Pp. 1139-1148. *In*: S. J. Erikson (ed.), *Encyclopedia of Ecology*. Elsevier, Oxford, UK.
- 2008 McIntyre, P.S. Alexander S. Flecker, Michael J. Vanni, James M. Hood. and S.A. Thomas. Fish distributions and nutrient cycling hotspots in a Neotropical stream. *Ecology*. 89:2335-2346.
- 2008 Valett, H.M., S.A. Thomas, P.J. Mulholland, , J.R. Webster, C.N. Dahm, C.S Fellows, C.L. Crenshaw, and C.G. Peterson. Endogenous and exogenous control of ecosystem function: N cycling in a headwater stream. *Ecology*. 12:3515-3527.
- 2008 Arrigoni, A., G.C. Poole, L.A.K. Mertes, S.J. O'Daniel, W.K. Woessner, S.A. Thomas. Buffering, lagging, or cooling? Disentangling mechanisms of hyporheic influence on stream channel temperature. *Water Resources Research*. Vol. 44, W09418, [doi:10.1029/2007WR006480](https://doi.org/10.1029/2007WR006480)
- 2007 Jones, K.L., G.C. Poole, W.W. Woessner, M.V. Vitale, B.R. Boer, S.J. O'Daniel, S.A. Thomas and B.A. Geffen. Geomorphology, hydrology, and aquatic vegetation drive seasonal hyporheic flow patterns across a gravel-dominated floodplain. *Hydrological Processes*. [DOI: 10.1002/hyp.6554](https://doi.org/10.1002/hyp.6554)
2007. Brookshire, E.N.J., H.M. Valett, S.A. Thomas, J.R. Webster. Atmospheric N deposition - increases organic N loss from temperate forests. *Ecosystems* (2): 252-262.
- 2006 Mulholland, P.J., S.A. Thomas, H.M. Valett, J.R. Webster, and J. Beaulieu. Effects of light on NO₃- uptake in small forested stream: diurnal and day to day variations. *Journal of the North American Benthological Society* 25(3):583-595.
- 2006 Fellows, C.S., H.M. Valett, C.N. Dahm, P.J. Mulholland, and S.A. Thomas. Coupling nutrient uptake and energy flow in headwater streams. *Ecosystems* 9:788-804.
- 2005 Thomas S.A., T.V. Royer, E.B. Snyder, and J.C. Davis. Organic carbon spiraling in the Snake River, Idaho, USA. *Aquatic Sciences*. 67:424-433.
- 2005 Brookshire, J.D., H. M. Valett, S. A. Thomas, and J.R. Webster. Cycling of dissolved organic nitrogen in a forested headwater stream. *Ecology*. 86:2487-2496.
- 2005 Cross, W.F., J.P. Benstead, P.C. Frost, and S.A. Thomas. 2005. Applying principles of ecological stoichiometry to freshwater benthic ecology: recent progress and future potential. *Freshwater Biology*. 50:1985-1912
- 2005 Johnson, A.N., B.R. Boer, W.W. Woessner, J.A. Stanford, G.C. Poole, S.A. Thomas, S.J. O'Daniel. Evaluation of an inexpensive small-diameter temperature logger for

- documenting ground water-river interactions *Ground Water Monitoring and Remediation* 25(4):68-74.
- 2005 Newbold, J.D., S.A. Thomas, G.W. Minshall, C.E. Cushing, and T. Georgian. Deposition, benthic residence, and resuspension of fine organic particles in a mountain stream. *Limnology and Oceanography*. 50:1571-1580.
- 2005 Schade, J., J. Espeleta, C.A. Klausmeier, M.E. McGroddy, S.A. Thomas, and L. Zhang. A conceptual framework for ecosystem stoichiometry: balancing resource supply and demand. *Oikos*. 109:40-51.
- 2005 Varricchione, J.T., S.A. Thomas, and G.W. Minshall. 2005. Vertical and seasonal distribution of hyporheic invertebrates in streams with different glacial histories. *Aquatic Sciences* 67(4):434-453.
- 2004 Mulholland, P.J., H.M. Valett, J.R. Webster, S.A. Thomas, L. Cooper, S. Hamilton and B.J. Peterson. Stream denitrification and total nitrate uptake rates measured using a field ¹⁵N isotope tracer approach. *Limnology and Oceanography* 49(3) 809-820.
- 2003 Thomas, S.A. T.V. Royer, and G. W. Minshall. Assessing the Role of Marine Derived Nutrients in Idaho Streams. Pages 41-55 in J.G. Stockner, editor. Nutrients in Salmonid Ecosystems: Sustaining Productivity and Biodiversity. American Fisheries Society, Symposium 34, Bethesda, Maryland.
- 2003 Thomas, S.A., H.M. Valett, P.J. Mulholland, and J.R. Webster. A regression approach to estimating reactive solute uptake in advective and transient storage zones of stream ecosystems. *Advances in Water Resources*. 26: 965-976.
- 2003 Webster, J.R. and 19 others. Factors effecting ammonium uptake in streams: an inter-biome perspective. *Freshwater Biology*. 48:1329-1352.
- 2003 Georgian, T.G, J. D. Newbold, S.A. Thomas, M.T. Monaghan, Minshall, G.W., and C.E. Cushing. Comparison of corn pollen and natural fine particulate organic matter transport in streams: can pollen be used as a seston analog? *Journal of the North American Benthological Society*. 22:2-16
- 2001 Thomas, S.A., J.D. Newbold, G.W. Minshall, T. Georgian, M.T. Monaghan, and C.E. Cushing. Transport and deposition of fine and very-fine organic particles in streams: implications for deposition mechanisms in turbulent environments. *Limnology and Oceanography*. 46:1415-1424.
- 2001 Thomas, S.A., H.M. Valett, P.J. Mulholland, and J.R. Webster, C.S. Fellows, C.N. Dahm, and C.G. Peterson. 2001. Nitrogen retention in headwater streams: the influence of groundwater – surface water interaction. In: *Optimizing Nitrogen Management in Food and Energy Production and Environmental Protection: Proceedings of the 2nd International Nitrogen Conference on Science and Policy*. *TheScientificWorld* 1:623-631.
- 2001 Monaghan, M.T., S.A. Thomas, G.W. Minshall, J.D. Newbold, and C.E. Cushing. The influence of filter-feeding benthic macroinvertebrates on the transport and deposition of particulate organic matter and diatoms in two streams. *Limnology and Oceanography*. 46: 1091-1099.

- 2000 Minshall, G.W., S.A. Thomas, J. D. Newbold, M.T. Monaghan, and C.E. Cushing. Physical influences on organic particle transport and deposition in streams. *Journal of the North American Benthological Society*. 19:1-16.
- 1999 Brock, J.T., E.B. Snyder, T.V. Royer, and S.A. Thomas. Periphyton metabolism: a chamber approach. In. *The Controlled Flood in the Grand Canyon*. American Geophysical Union Monograph 110. p 217-223.
- 1996 Beckett, D.C., B.W. Green, S.A. Thomas, and A.C. Miller. Epizoic communities on upper Mississippi River unionid bivalves. *American Midland Naturalist* 135:102-114.

INVITED PRESENTATIONS:

- 2016 Assessing the ecological consequences of Trinidadian Guppies across scales of ecological organization. Center for Advanced Studies in Blanes, Blanes, Spain.
- 2016 Ecological consequences of local adaptation in Trinidadian Guppies: Implications for eco-evolutionary interactions. Umea University, Umea, Sweden
- 2014 The Ecological Consequences of Local Adaptation: Using Trinidadian Guppies to Examine Ecological-Evolutionary Interactions in Nature. State University of Rio de Janeiro, Rio de Janeiro, Brazil.
- 2013 Nutrient spiraling: A review of tracer approaches to quantifying biogeochemical activity in streams. Plenary Speaker. Annual meeting of the Brazilian Limnological Society. Bonito, Brazil. September.
- 2013 The ecosystem consequences of phenotypic variation in Trinidadian guppies. Annual meeting of the Brazilian Limnological Society. Invited special session. Bonito, Brazil. September.
- 2013 Eco-evolutionary dynamics and the contemporary convergence of ecology and evolution. INTECOL 2013. Invited Special Session. London, England. August
- 2013 The Ecological Consequences of Species Introduction and Local Adaptation: Using Trinidadian Guppies to Examine Ecological-Evolutionary Interactions in Nature. Department of Ecology, State University of Rio de Janeiro. Rio de Janeiro, Brazil. January
- 2012: The Ecological Consequences of Species Introduction and Local Adaptation: Using Trinidadian Guppies to Examine Ecological-Evolutionary Interactions in Nature. Nebraska Wesleyan University
- 2011 An isotope tracer approach to assessing top-down and bottom-up control of nitrogen cycling in a neotropical stream. Thomas, S.A., R, El-Sabaawi, S. Collins, K. MacNeill, A.S. Flecker, and C. Pringle. *European Society of Freshwater Science*. June 2011. (Special session and session organizer)
- 2011 Structural and functional consequences of manipulating top-down and bottom-up forces in neotropical streams. Department of Biological Sciences, University of Alabama
- 2010 Feedbacks between ecology and evolution: Life history of Trinidadian guppies. School of Biological Sciences, University of Nebraska.
- 2010 Studying ecology and evolution in nature. Department of Zoology and Physiology, University of Wyoming.

- 2009 Linking Ecosystems and Evolution: Guppies and the Ecology of Trinidadian Streams. Biology Department, City College of New York.
- 2008 Future Directions in Nutrient Spiraling Research. Consortium of Universities for the Advancement of Hydrologic Science. National Center for Atmospheric Research. Boulder, CO.
- 2008 The Ecology of Streams and Rivers: Biology in Motion. Department of Civil Engineering. City College of New York
- 2007 Nutrient cycling in streams: Superimposing ecological processes and hydrological transport. Montana State University.
- 2006 Incorporating transport in ecological research: lessons from streams. Kansas State University, EEB seminar series.
- 2005 Nutrient regeneration in streams: insights from whole-system estimates of nitrification. The G.W. Minshall Symposium, Idaho State University.
- 2005 Nitrogen cycling in streams: ecosystems to organisms. University of Nebraska.
- 2004 Ecological Stoichiometry as a Framework for Coupling Nitrogen and Phosphorus Cycling. Ecology and Evolutionary Biology Seminar Series, Cornell University.
- 2004 Nutrient Spiraling: the balance between nutrient transport and retention in stream ecosystems. Idaho State University.
- 2004 The implications of ecological stoichiometry for nutrient spiraling in stream ecosystems. University of New England. Armidale, Australia.
- 2003 Nutrient spiraling as a framework for studying ecological stoichiometry in stream ecosystems. Cornell University. Ithaca, New York.
- 2001 Deposition, transport and processing of fine organic particles in streams. DIALOG IV sponsored by the American Society of Limnology and Oceanography. Bermuda Biological Station.
- 2001 The nutrient status of Idaho streams: how conditions have been altered by the loss of marine derived nutrients. American Fisheries Society, Eugene, Oregon.

PROFESSIONAL PRESENTATIONS: (LAST 5 YEARS)

2019:

1. Thomas, S.A., M. Bruneaux, S. Collins, A. Flecker, R. El-Sabaawi, A. Lopez-Sepulcre. Detecting differences in nitrogen flow in ecosystem scale experiments: A new approach to modeling isotope tracer additions in stream ecosystems. Society for freshwater Sciences Annual meeting, Salt Lake City, USA.
2. Marks, J. C., A. Siders, C. Roush, M. Schrik, B. Koch, A. Wymore, S.A. Thomas, A. Flecker. Revisiting the fate of dead leaves in streams. Society for freshwater Sciences Annual meeting, Salt Lake City, USA.
3. Feijo-Lima, R., E. Bernhardt, S.A. Thomas. Nutrient dynamics in a urban forest fragment. Society for freshwater Sciences Annual meeting, Salt Lake City, USA.

2018:

1. Thomas, Steven; Rafael Feijó de Lima, Flavia Tromboni, Eduardo F. Silva-Júnior, Timothy P. Moulton, and Eugenia Zandona. The Longitudinal Implications of Abrupt Riparian Changes; A case study from Brazil. Society for Freshwater Science, Detroit, MI, USA.
2. Feijó de Lima, Rafael, Steven Thomas, Eduardo F. Silva-Júnior, Leonardo Kleba Lisboa, Timothy P Moulton, Scott Mcleay, and Eugenia Zandona. The role of forest remnants in maintaining ecosystem integrity: the penetrance effect. Society for Freshwater Science, Detroit, MI, USA.
3. MacNeill, Keeley, Sarah Collins, Andrea Encalada, C.; Helena Guasch, Murray McBride, Emma Rosi, Steven Thomas, and Alexander Flecker. Nitrogen to phosphorus ratio as a driver of arsenic retention. Society for Freshwater Science, Detroit, MI, USA.
4. Lopez-Sepulcre, A.; Bruneaux, M.; Collins, S.; El-Sabaawi, R.; Flecker, A.; Thomas, S.: A novel statistical method to reconstruct quantitative food webs from tracer addition experiments. Association for the Sciences of Limnology and Oceanography, Victoria, BC, Canada
5. MacNeill, K.; Collins, S.; Encalada, A.; Guasch, H.; Rosi, E.; McBride, M.; Thomas, S.; Flecker, A. Nitrogen to Phosphorus ratio influences arsenic retention. Association for the Sciences of Limnology and Oceanography, Victoria, BC, Canada.

2017:

1. Thomas, S.A. and R.O. Hall. Scaling nutrient transport and transport in stream and river networks: and overview and new directions. Society for European Freshwater Science. Olomouc, Czech Republic.
2. Myrstener M., S.A. Thomas, E. Lindberg, R. Giesler, A. Bergstrom, and R.A. Sponseller Drivers of N uptake in arctic streams, Northern Sweden. Society for European Freshwater Science. Olomouc, Czech Republic.
3. MacNeill, K.L., A.C. Encalada, B.S. Kohler, E. Rosi, S.A. Thomas, and A.S. Flecker. Comparing the stoichiometry of nutrient uptake along elevation gradients in tropical and temperate streams. Ecological Society of America. Portland, OR, USA.
4. Rugenski, A., A. Landiera-Dabarca, C. L. Atkinson, A. Encalada, S.A. Thomas, N.L. Poff, and A.S. Flecker. Reciprocal transplants display contrasting responses of mayfly growth and body phosphorus in temperate and tropical streams. Society for Freshwater Science, Raleigh, NC, USA.
5. Feijo-Lima, S.A. Thomas, F. Tromboni, E. Zandona, and T.P. Moulton. Partitioning the effects of riverine connectivity and environmental filters on macroinvertebrate communities: implications for developing biomonitoring tools. Society for Freshwater Science, Raleigh, NC, USA.

6. Brookshire, J., S. Gerber, and S.A. Thomas. Global bounds on gaseous nitrogen losses from tropical forest watersheds. Society for Freshwater Science, Raleigh, NC, USA.
7. Landiera-Dabarca A., A.Rugenski, A. Encalada, C. L. Atkinson, S.A. Thomas, N.L. Poff, and A.S. Flecker. Experimental stream warming effects on mayfly growth rates across elevation gradients: a temperate-tropical comparison. Society for Freshwater Science, Raleigh, NC, USA.
8. Payn, R., S.A. Thomas, T. Covino, and L. Koenig. Theoretical inconsistencies between whole-stream uptake kinetics inferred synthetic constant-rate and instantaneous release tracer experiments. Society for Freshwater Science, Raleigh, NC, USA.

2016:

1. Tromboni, F. R. Fiejo-Lima, E. Silva-Junior, C. Lourenco-Amorim, E. Zandoná, T.P. Moulton, B. da Silva, M. Silva-Araujo, and S.A. Thomas. Up-scaling Stream Ecosystem Processes to Predict the Effects of Land Cover Change at a Watershed Scale in the Atlantic Tropical Rainforest. American Geophysical Union. San Francisco, CA, USA.
2. Payn, R., Thomas, S., Covino, T., and Koenig, L. Extracting information about solute uptake kinetics in advective-dispersive transport based on instantaneous-release tracer experiments in streams," American Geophysical Union, San Francisco, CA, USA.
3. Tromboni, F. Thomas, S., Feijó de Lima, R., Silva-Júnior, E., Moulton, T., Lourenço-Amorim, C., Zandoná, E., Annual meeting of the Society for Freshwater Science, The effects of riparian deforestation and water chemistry on nutrient uptake rates in the Atlantic Rainforest of Brazil. Society for Freshwater Science, Sacramento, CA, USA,
4. Brookshire, J., Gerber, S., Greene, W., Jones, R., and Thomas, S., , "Mass Balance constraints on total nitrogen gas emissions from humid tropical forests. Ecological Society of America, Ft Lauderdale, FL, UA.
5. MacNeill, K., Collins, S., Encalada, A., Kohler, B., Thomas, S., Rosi-Marshall, E., and Flecker, A. Arsenic controls on stoichiometry and nutrient cycling in tropical streams. Association for the Study of Limnology and Oceanography, Santa Fe, NM, USA.
6. Feijo-Lima, R., Tromboni, F., Silva-Junior, E., Zandoná, E., Moulton, T., Thomas, S. Cascading effects of deforestation on ecosystem structure and function of tropical streams Association for the Study of Limnology and Oceanography, Brazil.
7. Thomas, S., Tromboni, F., Feijo-Lima, R., Silva-Junior, E., Moulton, T., and Zandoná, E. Downstream shadows of upstream land use: the instream effects of abrupt changes in riparian conditions. Association for the Study of Limnology and Oceanography, Santa Fe, NM, USA,.
8. Poff, L., Flecker, A., Encalada, A., Landeira-Dabarca, A., Rugenski, A., Graça, M., Thomas, S. Changes in leaf and cotton decomposition rates exposed to different

- temperatures in tropical stream mesocosms. Society for Freshwater Science, Sacramento, CA, USA.
9. Thomas, S., Ecological consequences of local adaptation in Trinidadian Guppies: Implications for eco-evolutionary interactions. Umea University, Umea, Sweden, Sweden.
 10. Thomas, S., Assessing the ecological consequences of Trinidadian Guppies across scales of ecological organization," Centre for Advanced Studies in Blanes, Spain, Blanes, Spain, Spain.
- 2015:
1. Tromboni, F., Thomas, S., Moulton, T., and Zandoni, E. Assessing nutrient limitation in a pristine tropical stream: Comparing nutrient difusing substrates with nutrient uptake estimates. American Geophysical Union, San Francisco.
 2. Collins, S. M., El-Sabaawi, R., Lopez-Sopulcre, A., Thomas, S., Flecker, A. S., Fish introductions and light availability modulate food web fluxes in tropical streams: A stable isotope tracer approach. Ecological Society of America, Baltimore, Maryland.
 3. Brookshire, J., Gerber, S., Thomas, S., Jones, R., Limitation across tropical forests inferred from stoichiometry of nutrient losses. Ecological Society of America, Baltimore, Maryland.
 4. Fiejo de Lima, R., Tromboni, F., Moulton, T., Zandoni, E., Thomas, S., Downstream effects of Abrupt riparian changes in streams in the Atlantic Rainforest of Brazil. Society for Freshwater Science, Milwaukee, Wisconsin.
 5. Atkinson, C., Flecker, A., Encalada, A., Thomas, S. Insect diet and stoichiometry along a tropical elevation gradient. Society for Freshwater Science, Milwaukee, Wisconsin.
 6. Tromboni, F., Zandoni, E., Moulton, T., Lima, R., Thomas, S. Temporal variation of ammonium uptake in a tropical stream. Society for Freshwater Science, Milwaukee, Wisconsin. (May 2015).
 7. Thomas, S., Kohler, T., MacNeil, K., Tromboni, F., What you can and cannot learn from slug additions of nutrients. Society for Freshwater Science.
 8. Silva-Aroujo, E., Tromboni, F., Thomas, S., Moulton, T., Zandoni, E. Leaf decomposition and secondary production as indicators of land cover change in tropical rivers. Society for Freshwater Science, Milwaukee, Wisconsin.
 9. Collins, S. M., Kohler, T., Flecker, A., Fetzner, W., Thomas, S. The importance terrestrial subsidies in stream foodwebs varies along a stream continuum. Society of Freshwater Sciences, Milwaukee, Wisconsin.
 10. Thomas, S., Loeckel, T., Burgin, A., Davis, C., Ward, A., Drought-induced enrichment of soil nitrogen leads to record high nitrate loading to agricultural river networks. Association for the Sciences of Limnology and Oceanography, Grenada, Spain.
 11. Tromboni, F., Feijo de Lima, R., Zandoni, E., Thomas, S. Assessing nutrient limitation in a pristine tropical stream: comparing nutrient diffusing substrates with

- nutrient uptake estimates. Association for the Sciences of Limnology and Oceanography, Grenada, Spain
12. Fiejo de Lima, R., Tromboni, F., Thomas, S. The impact riparian forest loss on Atlantic Rainforest streams: a multi-scale assessment. Association for the Sciences of Limnology and Oceanography, Grenada, Spain.

COURSES TAUGHT

Introduction to Water Science (Undergraduate)
Stream and River Ecology (Graduate/Undergraduate)
Limnology (Graduate/Undergraduate)
Principles of Ecology (Undergraduate)
Topics in Aquatic Ecology (Graduate)
Water Science Senior Project I and II (Undergraduate)

UNIVERSITY SERVICE

COMMITTEES AND TASK FORCES

Chair: SNR Faculty Advisory Committee (2018-present)
Leader: Environmental Science Faculty Mission Area (2016-present).
Complex Biosystems Graduate Specialization Committee. (2014 – present)
UNL-SNR Safety and Facilities Committee,
member (2009-2019), Chair (2010-2019)
Chancellor's University Safety Committee, member (2017-2019)
Water Science Curriculum Committee, member (2009-2010), Chair (2011-present)
School of Natural Resources Promotion and Tenure committee, 2012-2019
UNL Water Center Advisory Committee, 2011-present
UNL Water Quality Laboratory Sub-committee, 2011-present
University of Nebraska Task Force on International Studies 2007-2012
Director of the School of Natural Resources search committee member 2011-2012
Aquatic Ecology/Limnology Search Committee, Chair, 2017 search
Aquatic Ecology/Limnology Search Committee, Chair, 2011 search
Aquatic Ecology/Limnology Search Committee, Chair, 2010 search

OUTREACH

Presenter at the 2010 Naturepolooza,
Big red Roadshow, 2012

OTHER PROFESSIONAL SERVICE

SCIENTIFIC SOCIETY SERVICE:

Vice President, Society for Freshwater Science, 2016-2017
Board of Directors member, Society for Freshwater Science, 2015-2018
Executive committee member, Society for Freshwater Science, 2015-2017
Long-Rang Planning committee, chair, Society for Freshwater Science, 2017-2020

Code of Conduct ad hoc committee, chair, Society for Freshwater Science, 2016-2018

FUNDING PANELS:

National Science Foundation, Directorate of Environmental Biology – Ecosystems Panel, FALL 2007, FALL 2008, FALL 2009, SPRING 2014, SPRING 2017

National Science Foundation, Directorate of Environmental Biology – IGERT Panel, SPRING 2010

National Science Foundation, Directorate of Environmental Biology – Dimensions in Biodiversity Panel, Spring 2011, Spring 2012.

JOURNAL REVIEWS: (select representatives)

| | |
|--------------------------|---|
| Ecology | Ecological Applications |
| Ecosystems | Journal of the North American Benthological Society |
| Freshwater Biology | Limnology and Oceanography |
| Ecology Letters | Journal of Environmental Quality |
| Water Resources Research | Biogeosciences |
| Aquatic Sciences | Biogeochemistry |

PROPOSAL REVIEWS

US National Science Foundation
US Environmental Protection Agency
North Carolina Water Resource Institute
Nebraska Department of Environmental Quality
Nebraska Environmental Trust

PROFESSIONAL MEMBERSHIPS

Society of Freshwater Science
Association for the Study of Limnology and Oceanography
Ecological Society of America
American Geophysical Union
International Association of Theoretical and Applied Limnology
Society of European Freshwater Sciences

COLLABORATORS & OTHER AFFILIATIONS:

Current Collaborators

A. Burgin (UNL), J. Brookshire (Montana State University), Jessica Corman (University of Nebraska), D. DeAngelis (University of Miami), A. Encalada (University of San Francisco de Quito), R. Ferriere (Univ. of Arizona), A.S. Flecker (Cornell University), D. Fraser (Union College), C. Funk (Colorado State University), G. Gettel (UNESCO-IHE), C. Ghalambor (Colorado State University), J. Guayasamin (Universidad Tecnológica Indoamérica), J. Gilliam (UNC-Chapel Hill), B. Kondratieff (Colorado State University), Eugenia Marti (Center for Advanced Studies in

Blanes) Tim Moulton (State Univ. of Rio de Janeiro), N.L. Poff (Colorado State University), C. Pringle (University of Georgia), D. Reznick (UC - Riverside), T.V. Royer (Indiana University) J. Schade (St. Olaf College), Ryan Sponseller (Umea University), J. Travis (Univ. of Florida), H.M Valett (Virginia Tech), Adam Ward (Univ. of Iowa), K. Zamudio (Cornell University), Eugenia Zandona (State Univ. of Rio de Janeiro).

Graduate and Postdoctoral Advisors

MS: Michael Parker, University of Wyoming
PhD: G. Wayne Minshall, Idaho State University
Postdoc: Maury Valett, Jack Webster, Cliff Dahm, and Pat Mulholland; Virginia Tech.
Alex Flecker, Jed Sparks, Cliff Craft, and Tim Fahey; Cornell University

GRADUATE AND UNDERGRADUATE STUDENTS

Graduate Students:

Current: Justin Caniglia (MS)

Graduated: Christopher Pracheil (MS, 2008)
Sharon Cooperstein (MS, 2009)
Tyler Kohler (MS, 2010)
David Owens (MS, 2010)
Brady Kohler (MS, 2013)
Thomas Heatherly (PhD, 2013)
Katherine Lawry (MS, 2014)
Luke Schalekamp (MAS, 2018)
Zeina Al-Ameeli (PhD, 2020)

Undergraduate lab members:

Phuong Minh Tu Le (UCARE)
Laura Stalder, (UCARE)
Ema Muslic
Ramona Sky (UCARE)
Eva Bacmeister (technician)
Shane Hansen
Brandi Russell
Scott McCleay (UCARE)
Rachel Paseka (UCARE)
Katherine Lawry (UCARE)
Keeley MacNeill (technician)
Royce Hocij
Eric Knutson
Jake Rehner
Dylan Turner