

Eric K. Moody

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EDUCATION

2017 Ph.D., Biology, Arizona State University, Tempe, AZ

2012 Masters of Science, Biology, Arizona State University, Tempe, AZ

2009 Bachelors of Science, Zoology & Biological Aspects of Conservation, University of Wisconsin-Madison, Madison, WI

PROFESSIONAL POSITIONS

2017- Post-Doctoral Research Associate, Iowa State University, Ames, IA

PEER-REVIEWED PUBLICATIONS

Accepted

Moody E.K. & J.L. Sabo. In Press. Dissimilarity in the riparian arthropod communities along surface water permanence gradients in aridland streams. *Ecohydrology* DOI: 10.1002/eco.1819.

Moody E.K., A.T. Rugenski, J.L. Sabo, B.L. Turner, & J.J. Elser. 2017. Does the growth rate hypothesis apply across temperatures? Variation in the growth rate and body phosphorus content of Neotropical benthic grazers. *Frontiers in Environmental Science* 5: 14.

Corman J.R., **E.K. Moody**, & J.J. Elser. 2016. Calcium carbonate deposition drives nutrient cycling in a calcareous headwater stream. *Ecological Monographs* 86: 448-461.

Moody E.K., J.R. Corman, & M.T. Bogan. 2016. Caught between a rock and a hard mineral encrustation: Long-lived aquatic invertebrates accumulate calcium carbonate deposits in a montane desert stream. *Western North American Naturalist* 76: 172-179.

Corman J.R., **E.K. Moody**, & J.J. Elser. 2015. Stoichiometric impact of calcium carbonate deposition on nitrogen and phosphorus supplies in three montane streams. *Biogeochemistry* 126: 285-300.

Moody E.K., J.R. Corman, J.J. Elser, & J.L. Sabo. 2015. Diet composition affects the rate and N: P ratio of fish excretion. *Freshwater Biology* 60: 456-465.

Vander Zanden M.J., M.K. Clayton, **E.K. Moody**, C.T. Solomon, & B.C. Weidel. 2015. Stable isotope turnover and half-life in animal tissues: a literature synthesis. *PLoS ONE* 10: e0116182.

Cline T., J.F. Kitchell, V. Bennington, G.A. McKinley, **E.K. Moody**, & B.C. Weidel. 2014. Climate impacts on landlocked sea lamprey: Implications for host-parasite interactions and invasive species management. *Ecosphere* 5: 68.

Moody E.K. & J.L. Sabo. 2013. Crayfish impact desert river ecosystem function and litter-dwelling invertebrate communities through association with novel detrital resources. *PLoS ONE* 8: e63274.

Moody E.K. & C.A. Taylor. 2012. Red swamp crawfish (*Procambarus clarkii*) discovered in the San Pedro River, Arizona: A new invader in a threatened ecosystem. *The Southwestern Naturalist* 57: 343-344.

Moody E.K., B.C. Weidel, T.D. Ahrenstorff, W.P. Mattes, & J.F. Kitchell. 2011. Evaluating the growth potential of sea lampreys (*Petromyzon marinus*) feeding on siscowet lake trout (*Salvelinus namaycush*) in Lake Superior. *Journal of Great Lakes Research* 37: 343-348.

In Review

Moody E.K., E.W. Carson, J.R. Corman, H. Espinosa-Pérez, J. Ramos, J.L. Sabo, & J.J. Elser. In Review. Consumption underlies the effects of predation on nutrient recycling by a desert fish. *Functional Ecology*

OTHER PUBLICATIONS

Moody E.K. 2015. *Bothrops asper* (Fer-de-Lance). Diet and feeding behavior. *Herpetological Review* 46: 266-267.

Moody E.K. 2014. Waiting for fish to pee in the Mexican desert. *Livebearers* 224: 10-12.

GRANTS AND AWARDS

Funded Research Grants and Fellowships

2016	ASU Graduate Education Dissertation Fellowship	\$17,000
2016	ASU Research & Training Initiatives Fieldwork Grant	\$1,350
2016	ASU GPSA JumpStart Grant	\$350

2015	Desert Fishes Council Conservation Grant	\$1,000
2015	ASU Research & Training Initiatives Facilities Grant	\$1,500
2014	ASU Research & Training Initiatives Facilities Grant	\$700
2014	Smithsonian Tropical Research Institute Fellowship	\$3,800
2013	ASU-STRI Collaborative Research Grant (Lead PIs: A. Rugenski, J. Elser, J. Sabo, B. Turner; EKM helped write)	\$209,800
2013	Western Alliance to Expand Student Opportunities Award (w/ J. Ramos (Lead PI) & J. Corman)	\$1,900
2013	ASU GPSA JumpStart Grant	\$500
2013	Society for Freshwater Science Endowment Award	\$1,000
2013	Smithsonian Tropical Research Institute Fellowship	\$6,200
2012	T&E Inc. Grant for Conservation Biology (Lead PI w/ J. Corman & J. Ramos)	\$2,400
2012	ASU School of Life Sciences Research Fellowship	\$10,000
2011	Arizona Water Association Scholarship	\$250
2008	UW-Madison Center for Limnology Chase-Noland Award	\$800

Awards and Other Honors

2017	Turner Designs Student Travel Stipend	\$1000
2016	Ray Huey Award for Best Student Presentation in DEE at SICB finalist	
2016	ASU School of Life Sciences Conference Travel Grant	\$400
2015	Conference on Biological Stoichiometry Travel Grant	\$100
2015	ASU College of Liberal Arts and Sciences Graduate Excellence Award	\$100
2015	ASU School of Life Sciences Conference Travel Grant	\$400
2014	Desert Fishes Council Student Travel Award	\$200
2014	ASU GPSA Travel Grant	\$950
2014	ASU School of Life Sciences Conference Travel Grant	\$400
2014	ASU College of Liberal Arts and Sciences Graduate Excellence Award	\$250
2013	ASU School of Life Sciences Conference Travel Grant	\$400
2012	Society for Freshwater Science Board of Directors Grant (co-PI w/ T. Cline)	\$300
2012	SFS Best Presentation Involving Crayfish Award	\$150
2012	NSF Graduate Research Fellowship Honorable Mention	
2012	ASU School of Life Sciences Conference Travel Grant	\$400
2011	ASU School of Life Sciences Conference Travel Grant	\$400
2009	Friends of Madison Student Radio Bruce Ravid Award	
2009	Wisconsin Broadcasters Association Student Award: 3 rd Place Best Radio News Story	

TEACHING EXPERIENCE

2016 Teaching Assistant, BIO 494: Fundamentals of Tropical Biology
2015 Teaching Assistant, BIO 415: Undergraduate Biometry
2012-2013 Teaching Assistant, BIO 614: Graduate Biometry
2010 Teaching Assistant, BIO 182: General Biology
2008 Led training of new DJs on UW student radio station (WSUM 91.7 FM)

MENTORSHIP

Independent Project

Nicholas Ambus – Sexual differences in nutrient excretion rates of viviparous fishes

Michael McCartin – Secondary production of riparian arthropods along intermittent and ephemeral streams.

Chanelle Patnode – How does travertine deposition influence ecosystem processes in desert streams?

Ashley Sanders – How does travertine deposition affect consumer-driven nutrient recycling by aquatic insects?

Supervised Research

Scott Brovarney, Meagan Brundage, Denise Johnson, Michael Sanchez, Derek Somo, Kira Sorochnikina, Patricia Susanto, Martin Vega, Camille Walker, Nicole Wilson

INVITED SEMINARS

2017 Aquatic Ecology Laboratory, The Ohio State University, Columbus, OH

CONTRIBUTED PRESENTATIONS

¶ poster † invited ‡ won award * undergraduate author

First-Authored Conference Presentations

Moody E.K., J.R. Corman, H. Espinosa-Perez, J. Ramos, J.L. Sabo, & J.J. Elser. 2017. From farms to fish pee: Agricultural growth alters the stoichiometry of nutrient recycling by a desert fish. Society for Freshwater Science Annual Meeting, Raleigh, NC, June 2017.

- Moody E.K.** & M.L. Lozano-Vilano. 2016. Predation shapes morphology of spring *Gambusia* in Northeastern Mexico. Desert Fishes Council Annual Meeting, Albuquerque, NM, November 2016.
- Moody E.K.**, J.R. Corman, H. Espinosa-Perez, J. Ramos, J.L. Sabo, & J.J. Elser. 2016. Can intraspecific stoichiometric variation link evolution to ecosystems? A case study with a desert fish. Gordon Research Seminar: Unifying Ecology Across Scales, Biddeford, ME, July 2016.
- Moody E.K.**, J.R. Corman, H. Espinosa-Perez, J. Ramos, & J.J. Elser. 2016. Stoichiometry in hot water: Does metabolism explain intraspecific differences in the elemental phenotype of a desert fish over a thermal gradient? Society for Integrative and Comparative Biology Annual Meeting, Portland, OR, January 2016.
- Moody E.K.**, J.R. Corman, H. Espinosa-Perez, J. Ramos, J.L. Sabo, & J.J. Elser. 2015. Interacting effects of developmental temperature and source population on the phenotype of *Gambusia marshi*. Desert Fishes Council Annual Meeting, Death Valley, CA, November 2015.
- ¶**Moody, E.K.**, J.R. Corman, H. Espinosa-Perez, J. Ramos, & J.J. Elser. 2015. Stoichiometric variation in a desert fish along a thermal gradient. Conference on Biological Stoichiometry, Peterborough, Ontario, Canada, June 2015.
- Moody, E.K.**, J.R. Corman, H. Espinosa-Perez, J. Ramos, & J.J. Elser. 2014. Thermal effects on body size and stoichiometry: A case study in a desert spring fish, *Gambusia marshi*. Desert Fishes Council Annual Meeting, Los Cabos, Baja California Sur, Mexico, November 2014.
- Moody, E.K.**, J.R. Corman, H. Espinosa-Perez, J. Ramos, & J.J. Elser. 2014. Thermal effects on body size and stoichiometry: A case study in a desert spring fish, *Gambusia marshi*. Fourth Symposium on Viviparous Fishes, Morelia, Michoacán, Mexico, November 2014.
- †**Moody, E.K.**, J.R. Corman, J.J. Elser, & J.L. Sabo. 2014. Do you excrete what you eat? New insights from a meta-analysis of diet manipulations. Joint Aquatic Sciences Meeting (Society for Freshwater Science/Association for the Sciences of Limnology & Oceanography), Portland, OR, May 2014.
- Moody, E.K.**, J.R. Corman, H. Espinosa-Perez, Z. Lee, N.M. Nevarez*, J. Ramos, & J.J. Elser. 2013. To pee P or not to pee P? Excretion rates of the robust gambusia, *Gambusia marshi*, across a water chemistry and resource quality gradient. Desert Fishes Council Annual Meeting, Flagstaff, AZ, November 2013.
- ¶**Moody, E.K.**, J.R. Corman, Z. Lee, N. Nevarez*, & J.J. Elser. 2013. To pee P or not to pee P? Rapid response of mosquitofish excretion stoichiometry to nutrient availability. Society for Freshwater Science Annual Meeting, Jacksonville, FL, May 2013.

‡**Moody, E.K.** & J.L. Sabo. 2012. Crayfish like it salty: Impacts of an introduced omnivore on leaf litter breakdown of varying riparian plant species in a semiarid river. Society for Freshwater Science Annual Meeting, Louisville, KY, May 2012.

†**Moody, E.K.**, K.A. Wyant, & J.L. Sabo. 2011. Water availability alters riparian arthropod community composition and biomass along montane intermittent streams. 11th Biennial Conference of Research on the Colorado Plateau, Flagstaff, AZ, October 2011.

Moody, E.K., B.C. Weidel, T.D. Ahrenstorff, T.J. Cline, W.P. Mattes, & J.F. Kitchell. 2011. Out in the cold: Effects of differing host temperatures on sea lamprey (*Petromyzon marinus*) growth. Ecological Society of America Annual Meeting, Austin, TX, August 2011.

¶**Moody, E.K.**, B.C. Weidel, & J.F. Kitchell. 2010. Sea lamprey in flux: Climate influences host selection in the world's largest and fastest warming lake. Association for the Sciences of Limnology & Oceanography/North American Benthological Society joint meeting, Santa Fe, NM, June 2010.

PROFESSIONAL SERVICE AND OUTREACH ACTIVITIES

Positions

2016- Associate Editor, "Ratios Matter", ecological stoichiometry newsletter
2013-2016 Assistant Editor, ASU Ask-A-Biologist Podcast
2012- Co-founder and co-editor, "Making Waves", the monthly podcast of SFS
2011-2012 Assistant Editor, ASU SOLS Science Studio audiocast
2010-2017 Volunteer, ASU Ask-A-Biologist program
2009-2012 Contributor, BugGuide.net (public arthropod identification webpage)
2009 Writer and editor, WI DNR Invasive Species Awareness Month Radio PSAs
2008-2009 Host, "Parr-fait", Weekly student radio talk show about aquatic research

Committee Membership

2016-2017 Member, ad-hoc committee on inclusivity following HB2 legislation, Society for Freshwater Science 2017 Annual Meeting
2015-2016 Graduate Programs Representative, ASU School of Life Sciences Graduate Executive Committee
2013-2014 IT Organizer, ASU School of Life Sciences Graduate Student Executive Committee
2013- Member, Goodeid Working Group of the American Livebearer Association
2012- Member, Society for Freshwater Science Public Information and Publicity Committee

Organizational Activities

- 2017 Co-organizer, special session at the Society for Freshwater Science meeting: “Elements and energy as fundamental currencies of nature: Using ecological stoichiometry as a tool to advance the sustainability of freshwater ecosystems”
- 2014 Co-organizer, special session at the Joint Aquatic Sciences Meeting: “From individuals to ecosystems: Consumer driven nutrient recycling across aquatic ecosystems”
- 2012-2013 Co-founder and co-organizer, Arizona State University Aquatic Reading Group: You, Limnology, & Eating (ARGYLE)

Journal Article Reviewer

Aquatic Sciences
Canadian Journal of Fisheries and Aquatic Sciences
Ecology
Ecology of Freshwater Fish
Freshwater Biology
Freshwater Crayfish
Journal of Animal Ecology
Journal of Great Lakes Research
Northwest Science
Oecologia
PLoS One
River Research and Applications

Member

American Livebearer Association
Desert Fishes Council
Society for Freshwater Science
Society for Integrative and Comparative Biology