

CURRICULUM VITAE

Alexander J. Reisinger

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Address: Department of Biological Sciences
190 Galvin Life Sciences
University of Notre Dame
Notre Dame, IN 46556
Phone: 574.309.1500 Email: areisin1@nd.edu

Research Interests:

Biogeochemistry of stream and river ecosystems, nitrogen transformations in aquatic ecosystems, role of riparian land use on stream ecosystem function, terrestrial-aquatic linkages

Education

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

Appointments

2010- present Graduate Research Assistant, Dept. of Biological Sciences, Univ. of Notre Dame
2008- 2010 Graduate Teaching Assistant, Division of Biology, Kansas State University

Awards, Fellowships, and Honors:

Center for Environmental Science and Technology (CEST) Bayer Predoctoral Fellowship, University of Notre Dame. 2013 (for spring 2014)

Contracted with Idaho Department of Environmental Quality to assess nutrient limitation of the Teton River in an effort to inform development of TMDLs in the watershed. 2013.

General Endowment Fund Award, Society for Freshwater Science. 2013.

Center for Aquatic Conservation Graduate Fellowship, Environmental Change Initiative, University of Notre Dame. 2012 (for spring 2013)

Grant in Aid of Research, Sigma Xi. 2012

Downes Memorial Professional Development Grant, University of Notre Dame. 2010.

GLOBES-IGERT Fellowship, University of Notre Dame. 2010 – Present

Arthur J. Schmitt Presidential Fellowship, University of Notre Dame. 2010 – Present

Biology Graduate Student Association Travel Grant, Kansas State University. 2010.

College of Science Undergraduate Research Travel Grant, University of Notre Dame. 2008.

Office of Research Presidential Circle Undergraduate Research Grant, University of Notre Dame. 2008.

McDonald Summer Undergraduate Research Fellowship, University of Notre Dame. 2007.

Current Grant Proposals Funded

Reisinger, A.J., and J.L. Tank. DISSERTATION RESEARCH: Quantifying the role of denitrification as a mechanism for inorganic nitrogen removal in Midwestern rivers. \$19,710 (07/13 - 06/15, NSF-DDIG). Reisinger is Co-PI due to NSF-DDIG application regulations.

Reisinger, A.J. and J.L. Tank. Nutrient Limitation and uptake rates in streams and rivers of the Greater Yellowstone Area. \$4710 (06/13 - 05/14, University of Wyoming - National Parks Service). Reisinger is Co-PI due to application regulations.

Reisinger, A.J., C. Vizza, S.G. Winikoff, M.M. Dee, and J.L. Tank. I. The roles of pH and cation concentration in apparent phosphate inhibition of stream biofilms and II. A new approach for assessing the effects of climate change on biofilm nutrient limitation. \$756 (04/2013 - 04/2014, ND-ECI). Reisinger is PI.

Publications (all refereed, in chronological order):

Key: underlined = student mentored by Reisinger

1. **Reisinger, A.J.**, D.L. Presuma, K.B. Gido, and W.K. Dodds. 2011. Direct and indirect effects of central stoneroller (*Campostoma anomalum*) on mesocosm recovery following a flood: Can macroconsumers affect denitrification? *Journal of the North American Benthological Society* 30:840-852.
2. **Reisinger, A.J.**, J.M. Blair, C.W. Rice, and W.K. Dodds. 2013. Woody vegetation removal stimulates riparian and benthic denitrification in tallgrass prairie. *Ecosystems* 16:547-560.
3. **Reisinger, A.J.**, D.T. Chaloner, J. Ruuegg, S.D. Tiegs, and G.A. Lamberti. 2013. Factors influencing the stable isotope composition of epilithon and juvenile coho salmon (*Oncorhynchus kisutch*) in Southeast Alaska streams receiving salmon spawners. *Freshwater Biology* 58:938-950.

Technical Reports (non-refereed, in chronological order):

1. **Reisinger, A.J.**, and J.L. Tank. 2013. Assessing biofilm nutrient limitation as an indicator of water quality in the Teton River. Report for the Idaho Department of Environmental Quality.

Synergistic activities

Member, Annual Meeting Committee for the 2015 Society for Freshwater Science Annual Meeting in Milwaukee, WI, Graduate Student Representative (2013 - present)

Member, Board of Directors for the Society for Freshwater Science, Graduate Student Representative (2013 - present)

Participant, Science Sunday Open House at Notre Dame Linked Experimental Ecosystem Facility (ND-LEEF). I spoke to ~ 150 members of the public (aged 2 - 85) about research I perform at ND-LEEF to measure the effect of land-use on nutrient limitation of biofilms.

Chair, Graduate Resources Committee (GRC) for the Society for Freshwater Science (SFS) (2012 - 2013)

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

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

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

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

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

Journal ad-hoc reviewer: Aquatic Biology, Aquatic Microbial Ecology, Freshwater Science, Biogeochemistry, Journal of the American Water Resources Association, Journal of Environmental Quality, Environmental Science and Pollution Research, Limnology and Oceanography

Master's Thesis Advisor

Dr. Walter K. Dodds, Kansas State University, Manhattan, KS

Doctoral Dissertation Advisor

Dr. Jennifer L. Tank, Univ. of Notre Dame, Notre Dame, IN

Teaching Experience:

Visiting Lecturer	(2013) Department of Plant Biology, Aarhus University, Denmark Nitrogen Dynamics in Streams - Co-organized and taught a week long intensive course that featured ~15 students from multiple European countries
Guest Lecturer	(2012) Department of Biological Sciences, Univ. of Notre Dame Stream Ecology - Delivered lecture on <i>Floodplains and Riparian Zones</i>
Graduate Teaching Assistant	(2012) Department of Biological Sciences, Univ. of Notre Dame Stream Ecology Laboratory (undergraduate and graduate, enrollment = 7)
Graduate Teaching Assistant	(2012) Department of Biological Sciences, Univ. of Notre Dame Biostatistics Laboratory (undergraduate, enrollment = ~ 25)
Graduate Teaching Assistant	(2008- 2010) Division of Biology, Kansas State University Organismic Biology (undergraduate, enrollment = ~50)

Published Abstracts (reflecting papers presented at national meetings, in chronological order):

1. Lamberti, G.A., M.E. Benbow, S.D. Bridgham, E.Y. Campbell, D.T. Chaloner, D. V. D'Amore, R.T. Edwards, J.P. Hudson, P.S. Levi, R.W. Merritt, **A.J. Reisinger**, J. Rüegg, J.L. Tank, and S.D. Tiegs. Aquatic-terrestrial coupling in the flux, uptake, and effects of Pacific Salmon nutrients in Southeast Alaska watersheds. Annual Meeting of the North American Benthological Society, Salt Lake City, UT, June 2008.
2. **Reisinger, A.J.**, D.T. Chaloner, S.D. Tiegs, J. Rüegg, and G.A. Lamberti. Using the stable isotopic composition of juvenile coho to assess the ecological integrity of Southeast Alaskan streams. (Poster) Annual Meeting of the North American Benthological Society, Salt Lake City, UT, June 2008.
3. Chaloner, D.T., M.E. Benbow, S.D. Bridgham, E.Y. Campbell, D.V. D'Amore, R.T. Edwards, J.P. Hudson, G.A. Lamberti, P.S. Levi, R.W. Merritt, **A.J. Reisinger**, J. Rüegg, J. L. Tank, and S.D. Tiegs. Environmental change alters the ecological role of Pacific salmon in southeast Alaska rivers. Ecological Society of America meeting, Milwaukee, WI. August 3-8, 2008.
4. Tiegs, S. D., M. E. Benbow, E. Y. Campbell, D. T. Chaloner, J. Hudson, P.S. Levi, **A.J. Reisinger**, R. W. Merritt, J. Rüegg, J.L. Tank, and G. A. Lamberti. Comparative effects of spawning salmon and their carcasses in a southeast Alaska stream ecosystem. Ecological Society of America meeting, Milwaukee, WI. August 3-8, 2008.
5. **Reisinger, A.J.**, and W.K. Dodds. Effects of woody encroachment on riparian and stream denitrification. (Poster) LTER all-scientists meeting, Estes Park, CO, September 2009
6. **Reisinger, A.J.**, and W.K. Dodds. Impact of woody encroachment on riparian and benthic denitrification. (Poster) Annual Meeting of the North American Benthological Society, Sante Fe, NM, June 2010.
7. Tank, J.L., E.J. Rosi-Marshall, M.A. Baker, R.O. Hall, and **A.J. Reisinger**. Using empirical approaches to quantify nutrient spiraling in 5 western rivers. Annual Meeting of the North American Benthological Society, Providence RI, May 2011..
8. **Reisinger, A.J.**, J.L. Tank, E.J. Rosi-Marshall, E. Taylor-Salmon, R.O. Hall, M.A. Baker, D. Kincaid, and U.H. Mahl. The importance of water column nutrient uptake relative to whole river uptake in 5

- western rivers. Annual Meeting of the North American Benthological Society, Providence RI, May 2011.
9. Tank, J.L., R.O. Hall, E.J. Rosi-Marshall, M.A. Baker, and **A.J. Reisinger**. Patterns of nutrient spiraling in 5 Midwestern Rivers reflect a gradient of land use and nutrients. Annual Meeting of the Society for Freshwater Science, Louisville, KY, May 2012.
 10. Genzoli, L. A., **A.J. Reisinger**, R.O. Hall, J.L. Tank, E.J. Rosi-Marshall, and M.A. Baker. Pelagic primary production in five Midwestern Rivers. (Poster) Annual Meeting of the Society for Freshwater Science, Louisville, KY, May 2012.
 11. **Reisinger, A.J.**, J.L. Tank, E.J. Rosi-Marshall, R.O. Hall, and M.A. Baker. Pelagic nutrient uptake along the river continuum in watersheds with contrasting land use. Annual Meeting of the Society for Freshwater Science, Louisville, KY, May 2012.
 12. Dee, M.M., **A.J. Reisinger**, and J.L. Tank. Nutrient limitation of riverine biofilms: The role of turbidity and cation-induced inhibition. (Poster) Annual Meeting of the Society for Freshwater Science, Jacksonville, FL, May 2013.
 13. Tank, J.L., E.J. Rosi-Marshall, R.O. Hall, M.A. Baker, and **A.J. Reisinger**. Turbidity and nutrients drive nutrient uptake in 5 western rivers. Annual Meeting of the Society for Freshwater Science, Jacksonville, FL, May 2013.
 14. **Reisinger, A.J.**, J.L. Tank, E.J. Rosi-Marshall, R.O. Hall, and M.A. Baker. Pelagic nutrient uptake in 15 rivers with varying turbidity and nutrient concentrations. Annual Meeting of the Society for Freshwater Science, Jacksonville, FL, May 2013.

Undergraduate students mentored:

1. Dumi L. Presuma (May 2009- Aug 2009)
2. Emma Taylor-Salmon (July 2010- Aug 2010)
3. Nicholas Anderson (June 2011- Aug 2011)
4. Martha Dee (February 2012- May 2013)
5. Zoe Volenec (June 2013 - July 2013)
6. Joseph Mueller (Aug 2013 - Present)

Memberships in Professional Associations:

Society for Freshwater Science