

Dr. Erin Cedar Seybold

Postdoctoral Associate

University of Vermont

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Education

Duke University	Ph.D.	Ecology	2017
St. Olaf College	B.A.	Biology and Environmental Science	2011

Research Experience

Postdoctoral Associate, <i>University of Vermont, VT EPSCoR</i>	June 2017 – present
Research Assistant and GRFP Fellow, <i>Duke University</i>	2012 – 2017
GRIP Fellow, United States Geological Survey, Storrs, CT	Sept.-Dec. 2016
Fulbright Researcher, <i>University of Tromsø</i>	2011 – 2012
Research Intern, <i>The Polaris Project</i>	2009, 2010
Research Intern, <i>St. Olaf College</i>	2008-2011
REU Intern, <i>Arizona State University</i>	2008

Awards and Fellowships

NSF-USGS Graduate Research Internship Program (GRIP) Fellowship	2016
Outstanding Student Presentation Award – AGU Fall Meeting (top 3-5% of student presenters)	2015
CUAHSI <i>Let's Talk About Water Film Symposium</i> Grant Recipient	2015
National Science Foundation (NSF) Graduate Research Fellow	2013 – 2016
Fulbright Scholar (Tromsø, Norway)	2011 – 2012
Phi Beta Kappa Member	2011
Goldwater Scholar	2010 – 2011

Publications

Seybold EC, McGlynn BL (In review) Hydrologic and biogeochemical drivers of carbon and nitrogen uptake in headwater stream networks. *Biogeochemistry*.

Bernhardt ES, Blaszczyk J, Ficken C, Fork M, Kaiser K, **Seybold EC** (2017) Control Points in Ecosystems: Moving beyond the hot spot hot moment concept. *Ecosystems*. doi: 10.1007/s10021-016-0103-y

Seybold EC, McGlynn BL (2016) Middle Rockies (Omernik Ecoregion 6.2.10) Represented by Tenderfoot Creek Experimental Forest, Montana. *Biological Responses to Stream Nutrients: A Synthesis of Science from Experimental Forests and Ranges*. US Forest Service.

Schade JD, **Seybold EC**, Drake T, Spawn S, Sobczak W, Frey KE, Holmes RM, Zimov N (2016) Variation in summer nitrogen and phosphorous uptake among Siberian headwater streams. *Polar Research* 35. doi: 10.3402/polar.v35.24571

Seybold EC, McGlynn BL (In Internal Review) Quantifying coupled C and N dynamics across contrasting headwater stream networks (*intended for Limnology and Oceanography*)

Seybold, E.C., McGlynn, B.L. (In Prep.) Influence of geomorphic form and in-stream transformations on watershed carbon dynamics. (*Intended for Water Resources Research*)

Presentations

- Seybold EC et al.** 2016. (oral presentation) Exploring the relative influence of hydrologic and biogeochemical drivers on carbon and nitrogen uptake across two contrasting headwater streams. AGU Fall Meeting, *San Francisco, CA.*
- Seybold EC et al.** 2016. (oral presentation) Coupled carbon and nitrogen cycling and catchment-scale biogeochemical fluxes across forested mountainous catchments. ASLO Summer Meeting, *Santa Fe, NM.*
- Seybold EC et al.** 2015. (oral presentation) Influence of groundwater-surface water exchange on whole stream metabolism estimates. AGU Fall Meeting, *San Francisco, CA.*
- Seybold EC et al.** 2014. (oral presentation) Carbon metabolism, uptake kinetics, and export: How watershed form influences carbon mobilization and in-stream transformations in headwater catchments. AGU Fall Meeting, *San Francisco, CA.* *winner of Outstanding Student Presentation Award*
- Seybold EC et al.** 2014. (poster) Dynamic hydrologic connectivity as the driver of spatio-temporal variation in DOC dynamics. CUAHSI Biennial Meeting. *Shepardstown, WV.*
- Seybold EC et al.** 2014. (oral presentation) The role of hydrologic connectivity in mediating DOC dynamics in space and time. Joint Aquatic Sciences Meeting. *Portland, OR.*
- Seybold EC et al.** 2013. (poster) Utilizing high frequency in-situ sensor networks to understand carbon dynamics from reach to watershed scales. AGU Fall Meeting. *San Francisco, CA.*
- Seybold EC et al.** 2012. (poster) Trace gas fluxes in complex terrain: The space-time dynamics of soil CH₄ and CO₂. American Geophysical Union Fall Meeting. *San Francisco, CA.*
- Seybold ES et al.** 2011. (oral presentation) Diversity and Gene Expression of Methane Oxidizing Bacteria in Palsa Wetlands. Nordic Environmental Nucleotide Network Annual Workshop. *Reykjavik, Iceland.*
- Seybold ES et al.** 2010. (poster) Landscape Variation in N and P uptake in Streams in the Kolyma River Basin. American Geophysical Union Fall Meeting, *San Francisco, CA.*
- Seybold ES et al.** 2010. (poster) Geographic variation of nutrient spiraling in streams in Minnesota, Northern California, and Eastern Siberia. ASLO/NABS Joint Conference. *Sante Fe, NM.*
- Seybold ES et al.** 2009. (poster) Assessing biogeochemical cycling and transient storage of surface water in Eastern Siberian streams using short-term solute additions. State of the Arctic Conference. *Miami, FL.*

Teaching

Duke Certificate in College Teaching	2017
Teaching Assistant, Dynamic Earth (Introductory Earth Science)	2016
Teaching Assistant, Earth Surface Processes	2015
Teaching Assistant, Landscape Hydrology	2013
Teaching Assistant, Water Resources Management	2012

Leadership and Outreach

Duke Water Network Member	2014-2017
Nicholas School PhD Advocacy Council – Treasurer & Chair of New Student Orientation Comm.	2015-2016
Nicholas School Forestry and Environmental Management (FOREM) Council – PhD rep.	2015-2016
Duke “Let’s Talk About Water” film symposium coordinator	2015
Duke Ecology Symposium Steering Committee	2014, 2015
Coordinator of “Adopt-a-UPE student”, near-peer mentoring program for ecology students	2014-2015
Women and Math Mentoring Program, Durham, NC	2013-2015
Duke Graduate Professional Student Council Representative – UPE representative	2013-2014
Duke Campus Sustainability Committee – Graduate School Representative	2013-2014
Nicholas School PhD Advocacy Council – Steering Committee member	2013-2014