JULIA A. HART

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EDUCATION

Ph.D., University of Wisconsin-Madison, Fall 2015-Present
Major: Freshwater & Marine Science
Advisors: Paul Hanson & Emily Stanley
B.S., University of Notre Dame, 2011-2015
Major: Environmental Science

GRANTS & AWARDS

Anna Grant Birge Memorial Fund, Center for Limnology, $1500, 2016
Outstanding Environmental Scientist Award, University of Notre Dame, 2015
College of Science Summer Undergraduate Research Fund, $4000, 2014

RESEARCH EXPERIENCE

University of Wisconsin-Madison Center for Limnology, Madison, WI
Graduate Research Assistant, 2015-Present
Research the factors controlling carbon and greenhouse gas dynamics in a eutrophic, freshwater lake using a one-dimensional, hydrodynamic water quality model.

University of Notre Dame, Cordova, AK
Undergraduate Research Assistant, Summer 2014
Researched methane production and carbon stable isotopes of wetland detritus in a coastal wetland ecosystem. Assisted in the collection of sediment, water, macroinvertebrate, and macrophyte samples on the Copper River Delta in Cordova, Alaska. All fieldwork was conducted in collaboration with the USDA Forest Service, Cordova Ranger District, Alaska.

University of Notre Dame, South Bend, IN
Undergraduate Researcher, 2012-2015
Assisted with various laboratory tasks like measuring chlorophyll *a* on nutrient-diffusing substrates, determining the organic matter content of sediment samples, and preparing sediment, macroinvertebrate, and macrophyte samples for stable isotope analysis with Dr. Gary Lamberti's Stream and Wetland Ecology Laboratory.

University of Notre Dame Environmental Research Center, Land O'Lakes, WI
Student Researcher, Summer 2013

Participated in a 10-week practicum in field biology with modules in Mammology, Herpetology, Forest Ecology, Insect Ecology, and Aquatic Ecology culminating in an independent research project about the effect of increased dissolved organic carbon on diel migration of freshwater zooplankton.

PEER-REVIEWED PUBLICATIONS

J.A. Hart, C. Vizza, W. West, S.E. Jones, and G.A. Lamberti. 2016. Methane cycle processes create distinctive patterns in carbon stable isotopes of wetland detritus. (In preparation).

OTHER PUBLICATIONS

J.A. Hart. 2015. "Dear Mom: Letter Explains Carbon Cycle via Christmas Ornaments." UW-Madison Center For Limnology Blog. December 22, 2015.
http://limnology.wisc.edu/blog/2015/12/

J.A. Hart. 2015. "Conservation on the Colorado River." The River Blog, American Rivers. July 9, 2015. http://www.americanrivers.org/blog/conservation-on-the-colorado-river/

J.A. Hart. 2014. "Unlikely Atmospheric Offenders." *University of Western Australia News* Vol. 33 September 2014: 15.
http://www.staff.uwa.edu.au/__data/assets/pdf_file/0004/2596099/Issue-07-September-2014.pdf

POSTER PRESENTATIONS

J.A. Hart, E.H. Stanley, P.C. Hanson. 2016. "Overlooked Consequences of Cultural Eutrophication: Carbon Budgets and Enhanced Greenhouse Effects." Global Lakes Ecological Observatory Network Annual Meeting, Gaming, Austria.

J.A. Hart, C. Vizza, W.E. West, G.A. Lamberti. 2015. "Linking Decomposition to Methane Production in Alaskan Ponds." Society for Freshwater Science (SFS) Annual Meeting, Milwaukee, WI.

J.A. Hart, C. Vizza, W.E. West, G.A. Lamberti. 2015. "Linking Decomposition to Methane Production in Alaskan Ponds." College of Science Joint Annual Meeting, University of Notre Dame, Notre Dame, IN.

J.A. Hart, P. Kelly. 2013. "The effect of dissolved organic carbon on the diel vertical and horizontal migration of zooplankton." College of Science Fall Undergraduate Research Fair, University of Notre Dame, Notre Dame, IN.

TEACHING EXPERIENCE

Graduate Teaching Assistant, University of Wisconsin-Madison, Limnology Lab, Fall 2016
Graduate Teaching Assistant, University of Wisconsin-Madison, Limnology Lab, Fall 2015
Teaching Assistant, University of Notre Dame Environmental Research Center, Practicum in Field Biology, Summer 2015
Undergraduate Teaching Assistant, University of Notre Dame, Biostatistics, Spring 2015

MENTORING & SUPERVISING

Nora Beckemeyer, 2016-Present
Natalie Schmer, 2016-Present
Kye Hanson, Summer 2016

RELEVANT SKILLS

Science Communication
Proficient with R Statistical Software
Proficient with Microsoft Office