

JESSICA A. RICK

Program in Ecology & Department of Botany

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Education

PhD	University of Wyoming, Ecology Advisor: Catherine Wagner	Aug 2016-Present
MS	University of Minnesota, Integrated Biosciences Co-advisors: Jared Strasburg, Ron Moen	2013-2015
BS	University of Arizona, Biology with Honors, Magna Cum Laude Honors thesis advisor: Bruce Tabashnik	2008-2013

Professional Experience

2016-present	Graduate Teaching Assistant , Dept. Botany, University of Wyoming
2015	Learning Innovations Teaching Fellow , University of Minnesota Duluth
2015	Graduate Research Assistant , Dept. Biology, University of Minnesota Duluth
2013-2015	Graduate Teaching Assistant , Dept. Biology, University of Minnesota Duluth
2011-2013	Undergraduate Research Assistant , Dept. Entomology, University of Arizona

Publications

Rick, JA, RA Moen, JD Erb, JL Strasburg. 2017. Population structure and effective gene flow in a newly harvested gray wolf (*Canis lupus*) population. *Conservation Genetics*, 18(5): 1091-1104.

Millard, JE, JM Alston, **JA Rick**, et al. 2017. Observations of noteworthy Northern Spotted Owl (*Strix occidentalis caurina*) nesting behaviors. *Canadian Field Naturalist*, in press.

In preparation or review:

Rick, JA, SM Grewenow, RA Moen, JL Strasburg. *In prep.* Assessing hybridization and introgression in Minnesota wolves using a Y chromosome locus and mitochondrial DNA.

Awards, Fellowships, Grants, Honors

2017	UW College of Arts and Sciences Dean's Scholar Award	\$ 2,500
	Society of Systematic Biologists Graduate Student Research Award	\$ 1,600
	UW Botany Department Travel Award	\$ 300
	Wyoming INBRE Travel for Training Grant	\$ 2,500
	Aven Nelson Fellowship in Systematic Botany (<i>Dept Award</i>)	\$ 2,000
	W.G. and R. Solheim Memorial Scholarship in Botany (<i>Dept Award</i>)	\$ 500
	Wyoming Biodiversity Institute Research Grant	\$ 5,000
	Society for Freshwater Science Systematics Fund Award	\$ 1,000
	Center for Global Studies Nielson Scholarship for International Fieldwork	\$ 2,500
2016	Wyoming INBRE Sequencing and Bioinformatic Analysis Grant	\$10,000
2015	The Wildlife Society Student Travel Grant	\$ 450
	Swenson College of Science and Engineering Student Travel Award	\$ 400

	Integrated Biosciences Graduate Program Travel Grant	\$ 500
2015	Outstanding Graduate Teaching Assistant, University of Minnesota Duluth	\$ 500
	Learning Innovations Graduate Teaching Fellowship	\$ 9,000
2008-2013	National Merit Tuition Scholarship	\$20,000/yr
2011	University of Arizona Study Abroad Travel Grant	\$ 1,000
2009-2011	UA College of Agriculture and Life Sciences Hope I. Jones Scholarship	\$ 5,000
2008	National Merit Commended Scholar	\$ 2,500

Teaching Experience

University of Wyoming

Spring 2018	Teaching assistant, Computational Biology
Spring 2017	Teaching assistant, Animal Biology Laboratory
Fall 2016	Teaching assistant, Evolutionary Biology

University of Minnesota Duluth

Fall 2015	Teaching assistant, Ecology Laboratory
Summer 2015	Learning Innovations Teaching Fellow
Spring 2015	Learning Innovations Teaching Fellow
Fall 2014	Teaching assistant, Ecology Laboratory
Spring 2014	Teaching assistant, Genetics Laboratory
Fall 2013	Teaching assistant, Genetics Laboratory

Contributed Presentations

* *presenting author*; + *undergraduate mentee*

Rick, JA. 2018. Evolutionary consequences of demographic history in *Lates* fishes: Insights from the whole genome perspective. Poster: VII Annual Program in Ecology Symposium, Laramie, WY.

Rick, JA. 2017. Big fish, big data: Studying the evolution of Lake Tanganyika's *Lates* radiation. Departmental seminar: UW Department of Botany, Laramie, WY.

Rick, JA. 2017. Evolution and the environment in Lake Tanganyika's *Lates* radiation. Oral presentation: Guild of Rocky Mountain Ecologists and Evolutionary Biologists (GREEBS) Annual Meeting, Nederland, CO.

Junker, J, PB McNlyre, O Seehausen, I Kimirei, **JA Rick***, CE Wagner*. 2017. Population genetics of Lake Tanganyika *dagaa* species. Poster: African Great Lakes Conference, Entebbe, Uganda.

Rick, JA, RA Moen, JD Erb, JL Strasburg. 2017. Genetic consequences of anthropogenic harvest in a newly harvested gray wolf (*Canis lupus*) population. Oral presentation: VI Annual Program in Ecology Symposium, Laramie, WY.

Rick, JA. 2015. Population genetic diversity, structure, and hybridization in the Minnesota wolf population. Departmental seminar: UMD Department of Biology, Duluth, MN.

Statz, J*+, **JA Rick,** AC Schumann, JL Strasburg. 2015. Population estimation of *Canis lupus* on the Leech Lake Reservation (MN) using microsatellites. Poster: UROP Research Symposium, Duluth, MN.

Rick, JA, RA Moen, JD Erb, JL Strasburg. 2015. Population genetics and structure of a newly harvested wolf population in Minnesota. Oral presentation: The Wildlife Society Annual Meeting, Winnipeg, Manitoba.

Rick, JA, RA Moen, JD Erb, JL Strasburg. 2015. Temporal changes in the population genetic structure of a newly harvested social carnivore in Minnesota. Oral presentation: 2nd Annual Midwest Population Genetics Conference, Ann Arbor, MI.

Grewenow, SM**+, **JA Rick**, JL Strasburg. 2015. Population genetic analysis of *Canis* species in Minnesota using a Y chromosome locus and mitochondrial DNA. Poster: 2nd Annual Midwest Population Genetics Conference, Ann Arbor, MI.

Strasburg, JL*, **JA Rick**, TL Tjepkes. Population genetic assessment of regionally threatened wolf and moose populations in the northern USA. Poster: 10th Annual International Conference on Behaviour, Physiology and Genetics of Wildlife, Berlin, Germany.

Rick, JA, RA Moen, JD Erb, JL Strasburg. 2015. Population genetics of wolves (*Canis lupus*) in Minnesota. Poster: Minnesota Chapter of The Wildlife Society Annual Meeting, Duluth, MN.

Mentoring

2016-2017 Brittany Nordberg, Wyoming Research Scholar, University of Wyoming
2014-2015 Stephanie Grewenow, UROP Undergraduate, University of Minnesota Duluth
Started PhD program at Emory Univ. in Fall 2016
2014-2015 John Statz, UROP Undergraduate, University of Minnesota Duluth
2012-2013 Haley Lanoue, Undergraduate Assistant, University of Arizona
Started AuD program at Wash U. St. Louis in Fall 2016
2012-2013 Claire Levenberg, Undergraduate Assistant, University of Arizona

Research Experience

2016-present **University of Wyoming, Department of Botany** Laramie, WY
Advisor: Dr. Katie Wagner
Dissertation: "Evolution and the environment in freshwater fishes"
2013-2015 **The University of Minnesota-Duluth, Department of Biology** Duluth, MN
Co-advisors: Dr. Jared Strasburg, Dr. Ron Moen
Thesis: "Genetic diversity, structure, and hybridization in a harvested gray wolf (*Canis lupus*) population in Minnesota"
2011-2013 **The University of Arizona, Department of Entomology** Tucson, AZ
Advisor: Dr. Bruce Tabashnik
Thesis: "Integrity of preserved *Pectinophora gossypiella* samples for DNA analysis"
2008, 2011 **University of Minnesota, College of Veterinary Medicine** St. Paul, MN
Supervisors: Dr. Edward Patterson, Dr. Eva Furrow
Projects: Genetic basis of canine exercise-induced collapse and canine pancreatitis

Outreach and Professional Development

Outreach: Judge in Animal Sciences, Northeast Minnesota Regional Science Fair, 2015
Mentor, University of Minnesota Duluth UROP Program, 2014-2015
Group Leader, Department of Biology Welcome Week, 2014
Invited Grad Student Panelist, UMD Biology Club, 2014
Judge, Lakeview Christian Academy Middle and High School Science Fair, 2013

Development: *2017 Workshop on Molecular Evolution*, 10-day intensive workshop at the Marine Biological Laboratory (Wood's Hole, MA) focused on molecular phylogenetics and genomic analyses.

Teaching and Learning in the Life Sciences, semester-long course in fall 2016 focusing on improving teaching with a focus on student learning and implementing active learning in courses

Learning Innovations Teaching Fellowship to improve a science writing-focused upper division elective for the UMD Biology department, which resulted in BIOL 3990: Writing for the Duluth Undergraduate Journal of Biology

Memberships: Society for Systematic Biology; Society for the Study of Evolution; Society for Freshwater Science; American Society of Ichthyologists & Herpetologists; Sigma Delta Epsilon/Graduate Women in Science