

CURRICULUM VITAE
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 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

Awards, Fellowships, Grants, Honors

2017	Aven Nelson Fellowship in Systematic Botany (\$ 2,000) Wilhelm G. and Ragnhild Solheim Memorial Scholarship in Botany (\$ 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 Learning Innovations Graduate Teaching Fellowship
2008-2013	National Merit Tuition Scholarship
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 Scholarship (\$ 2,500)

Publications

1. 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*, doi: 10.1007/s10592-017-0961-7.

In preparation or review:

Alston, JM, and JA Rick. *In review*. Observations of choughs (*Pyrrhocorax sp.*) and Himalayan Snowcock (*Tetraogallus himalayensis*) interacting with Bharal (*Pseudois nayaur*).

Millard, JE, JM Alston, JA Rick, et al. *In review*. Observations of noteworthy Northern Spotted Owl (*Strix occidentalis caurina*) nesting behaviors.

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.

Theses:

Rick, JA. 2015. Genetic diversity, structure, and hybridization in a harvested gray wolf (*Canis lupus*) population in Minnesota. MS Thesis, University of Minnesota, Minneapolis, MN.

Rick, JA. 2013. Integrity of preserved pink bollworm (*Pectinophora gossypiella*) samples for DNA analysis. BS Honors Thesis, University of Arizona, Tucson, AZ.

Contributed Presentations

* *presenting author*

Junker, J, PB McInyre, 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*. 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.

Research Experience

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

Teaching Experience

University of Wyoming

Spring 2017 Teaching assistant, Animal Biology Laboratory (LIFE 2022)

Fall 2016 Teaching assistant, Evolutionary Biology (LIFE 3500)

University of Minnesota Duluth

Fall 2015 Teaching assistant, Ecology Laboratory (BIOL 2802)

Summer 2015 Learning Innovations Teaching Fellow, BIOL 3990

Spring 2015 Learning Innovations Teaching Fellow, BIOL 3990

Fall 2014 Teaching assistant, Ecology Laboratory (BIOL 2802)

Spring 2014 Teaching assistant, Genetics Laboratory (BIOL 2202)

Fall 2013 Teaching assistant, Genetics Laboratory (BIOL 2202)

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

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

Development: *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 (2017 -); Society for the Study of Evolution (2017 -); Society for Freshwater Science (2017 -); American Society of Ichthyologists & Herpetologists (2017 -); Sigma Delta Epsilon/Graduate Women in Science (2015 -); Northwoods Women in Science (2014 - 2015); The Wildlife Society (2014 - 2015)