

ROGER FAUST

150 Skok Hall | 2003 Upper Buford Circle | Saint Paul, MN 55108 | (402) 739-2240 | faust127@umn.edu

EDUCATION

Carleton College, Northfield, MN

B.A. Biology, June 2019

- Thesis: Invasive Ecosystem Engineers in a Non-Native Habitat: The Ecological Impacts of Zebra Mussel Invasions
- Relevant Coursework: Introductory Biology and Chemistry; Marine Ecology; Ecological Field Research; Genetics; Applied Regression Analysis; Calculus; Evolution; Behavioral Ecology; Conservation Biology; Ecological Physiology; Genomics and Bioinformatics

University of Minnesota Twin Cities, Saint Paul, MN

M.S. Conservation Science, May 2022

- Thesis: Exploring wolf diet with stable isotopes in the Greater Voyageurs Ecosystem
- Relevant Coursework: Conservation Biology Seminar; Biometry; Analysis of Populations; Statistical Modeling of Ecological Data using R and WinBugs/JAGS; Wildlife Capture, Immobilization, and Handling, Stable Isotopes Seminar, GIS for Natural Resources, Habitat/Regulation of Wildlife

University of Minnesota Twin Cities, Saint Paul, MN

PhD Conservation Science, Expected December 2024

- Relevant Coursework: Natural Resources Law and Management of Public Lands and Waters, Human Dimensions of Conservation, Qualitative Methods in Educational Psychology, Tribal Resource Management, Qualitative Research Methods on Environmental Science, Attitudes and Social Behavior, American Indian Research and Collaborations

RESEARCH INTERESTS

For my current PhD research, I am working with diverse hunting communities in the Great Lakes Region (tribes, Hmong, and Amish groups) to understand perspectives and knowledge that they have on Chronic Wasting Disease. We will use information collected from surveys and interviews to develop culturally relevant and appropriate outreach materials and inform deer management plans.

NON-THESIS RESEARCH EXPERIENCE

Ecological Physiology Research | Carleton College, Northfield, MN

September 2018 – June 2019

- Evaluated the potential to detect invasive zebra mussels with eDNA under Dr. Mike Nishizaki
- Taught lab members wet lab skills and basic genetics
- Received permission from Minnesota Department of Natural resources to collect zebra mussels from invaded lakes

NOAA Fisheries Service Southwest Fisheries Science Center | Santa Cruz, CA

July 2018 – August 2018

- Analyzed steelhead trout dietary samples via high-throughput DNA sequencing
- Designed and tested COI primer sequences for multiplex PCR
- Constructed reference databases of gene sequences for species present
- Collaborated with a postdoctoral researcher from University of California, Berkeley

Doris Duke Conservation Scholars Program | University of California, Santa Cruz

June 2017 – January 2019

- Awarded a competitive two-year summer stipend and travel allowance
- Conducted student-driven research projects across California
- Networking with conservation professionals across the United States

Grassland Ecology Research | Carleton College, Northfield, MN

March 2016 – June 2018

- Investigated the role of herbivores in structure and function of restored prairies under Dr. Dan Hernandez
- Conducted small mammal surveys and prepared soils for C:N analysis

Carleton College Ecology in Australia

January 2017 – March 2017

- Gained natural history identification skills in diverse Australian ecosystems
- Developed and presented group projects on findings from field
- Lived with an Aboriginal community to learn traditional ecological knowledge

TEACHING AND MENTORING EXPERIENCE

Biology Teaching Assistant | Carleton College, Northfield, MN

January 2019 – March 2019

- Demonstrated laboratory techniques to students
- Held office hours to help students with class and lab assignments
- Helped in problem set design and grading

FOCUS Mentor | Carleton College, Northfield, MN

March 2017 – June 2019

- Held office hours to provide strategies and skills for undergraduates in biology and statistics courses
- Connected students with their instructors and teaching assistants

Statistics Teaching Assistant | University of Minnesota, Twin Cities

September 2020-December 2020

- Answered student questions related to content and assignments in labs and office hours
- Graded student assignments and provided feedback

PRESENTATIONS AND LECTURES

Presentation | SACNAS National Conference, Salt Lake City UT

October 2017

- Faust, R., T. Dodge, D.L. Hernández. Mammalian herbivores differentially affect light availability and species richness in restored prairies. SACNAS National Conference 2017. Salt Lake City, UT. (Poster)

Lecture | Human Dimensions of Conservation/Biology

April 2021

- Faust, R., Community Based Participatory Research in Conservation (Two-hour lecture)

Lecture | Human Dimensions of Wildlife Management

April 2022

- Faust, R., Community Based Participatory Research in Wildlife Management (One-hour lecture)

Presentation | Pathways: Human Dimensions of Wildlife Conference, Bremerton WA

May 2022

- Faust, R., T. Wolf, D. Fulton, L. Bernstein, M. Schwabenlander, A. Landon, M. Struck. Partnering with Diverse Hunting Communities to Tackle CWD

Presentation | NACCB 2022, Reno NV

July 2022

- Faust, R., T. Wolf, D. Fulton, L. Bernstein, M. Schwabenlander, M. Struck. Engaging Tribal Nations of the Great Lakes Region on Chronic Wasting Disease through a Community-Based Participatory Research Approach

HONORS AND AWARDS

QuestBridge College Match Scholarship: Four-year comprehensive scholarship to Carleton College

Doris Duke Conservation Scholar: Competitive two-year summer stipend and travel allowance

Society for Integrative and Comparative Biology Travel Scholarship: Comprehensive travel scholarship to attend SICB 2018 and connect with professionals in biology

University of Minnesota College of Food, Agricultural and Natural Resource Sciences Diversity Scholars - Graduate Student Fellowship: One-year comprehensive fellowship with professional development funding

Student Nomination to Attend 2020 MN DNR Roundtable: Nomination by Carleton College Biology Department to receive mentoring, networking, and be included in a discussion about career development with MN DNR personnel

2022 SACNAS Travel Scholarship Award: Comprehensive travel scholarship to present at SACNAS 2022

SKILLS AND INTERESTS

Technical Skills: R, JMP, SPSS, Microsoft Office (Word, PPT, Excel), Social Media Advertising

Scholarly Affiliations and Conferences attended:

- Society for Advancement of Chicanos/Hispanics and Native Americans in Science (2016, 2017, 2018)
- The Society for Integrative and Comparative Biology (2018)
- New Horizons in Conservation (2018, 2020)
- Minnesota Department of Natural Resources Roundtable (2020)
- Minnesota Chapter of The Wildlife Society (2020)
- Pathways: Human Dimensions of Wildlife (2022)
- NACCB 2022: Society for Conservation Biology North America (2022)

Tribal Member: Winnebago Tribe of Nebraska

Carleton College Lacrosse: Co-Captain (2017 – 2019)