

CURRICULUM VITAE

Katherine D. McLean

Department of Ecology and Evolutionary Biology | University of Michigan
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I. EDUCATION

PhD, Ecology and Evolutionary Biology (*in progress*)

University of Michigan, Ann Arbor, MI

Bachelor of Science, Biology (2016)

Westminster College, Salt Lake City, UT

Associate of Science, Biology (2014)

Salt Lake Community College, Salt Lake City, UT

II. AWARDS & FELLOWSHIPS

Rackham Merit Fellowship, University of Michigan Rackham Graduate School, 2020-2023

NSF Graduate Research Fellowship, National Science Foundation, 2016-2020

Travel Award, Annual Biomedical Conference for Minority Students, Fall 2015

Travel Award, Penn State STEM Open House, Fall 2015

McNair Program Scholarship, Westminster College, Summer 2014

Transfer Student Presidential Scholarship, Westminster College, Fall 2014

III. GRANTS

Block Grant, University of Michigan Ecology and Evolutionary Biology Department, Spring 2018 (\$1865)

Travel Grant, Rackham Conference International Travel Grant, June 2018 (\$1300)

Travel Grant, Department Conference Travel Award, May 2018 (\$400)

Block Grant, University of Michigan Ecology and Evolutionary Biology Department, March 2017 (\$1468)

Travel Grant, Department Conference Travel Award, August 2017 (\$400)

IV. TEACHING EXPERIENCE

Wolverine Pathways Lead Instructor

Prove It! Data Camp

Wolverine Pathways, University of Michigan, Summer 2017 & 2018

Graduate Student Instructor

BIO 171: Introduction to Ecology, Evolutionary Biology, and Genetics

Program in Biology, University of Michigan, Fall 2016 - Winter 2017

Teaching Assistant

Quantitative Literacy for the GRE

Quantitative Analysis and Research Cooperative (QUARC)

Mathematics Department, Westminster College, Summer 2016

Teaching Assistant

Structural Equation Modeling (SEM)

Biology Department, Westminster College, May 2016

V. RESEARCH EXPERIENCE

PhD candidate in the Duffy Lab

University of Michigan, Department of Ecology and Evolutionary Biology, August 2016 - present
PhD student studying evolutionary dynamics of complex host-parasite systems

Undergraduate Research Assistant

Salterra Research Group

Westminster College, Biology Department, January 2015 - May 2016
Undergraduate student spearheaded interdisciplinary project studying the impact of urbanization on soil microbial communities and reciprocal effects on agricultural productivity

Student Statistical Consultant

Quantitative Analysis and Research Cooperative (QUARC)

Westminster College, Mathematics Department, August 2015 - June 2016
Assisted with undergraduate experimental design and data analysis

Field Studies – Grand Staircase-Escalante National Monument

Salt Lake Community College, May 2011
Collected and analyzed field data on the water quality and plant biodiversity within the Grand Staircase-Escalante National Monument

VI. PUBLICATIONS

McLean KD, Duffy MA. (*in press*) Ecological context influences evolution in host-parasite interactions: insights from the *Daphnia*-parasite model system In: Evolution in Action – Past, Present, and Future, W. Banzhaf *et al.* ed., Springer Nature Switzerland AG, *in press*.

VII. PRESENTATIONS

August 2018. **McLean, K.D.**, Gowler, C.D., Hall, S.R., Duffy, M.A. How is Host Diversity Maintained Despite Strong Selective Pressure From Parasites? Poster presentation at the Annual Meeting of the Ecological Society of America, Portland, OR.

June 2018. Bouman, J., Erten, Y. E., Bergar, P. M., **McLean, K. D.** Evolution of interdependencies as a driver of stability in cooperative systems. Oral presentation at the Guarda Evolutionary Biology Workshop, Guarda, Switzerland

March 2018. **McLean, K.D.** Eco-evolutionary Dynamics of Parasites and Their Hosts. Oral presentation for the Department of Ecology and Evolutionary Biology, University of Michigan, Ann Arbor, MI

May 2018. **McLean, K.D.** Meng, J., Bilich R., Hunsberger K., Duffy, M.A. Implications of within-host parasite interactions for parasite fitness and virulence. Poster presentation at the 16th Ecology and Evolution of Infectious Disease Conference, Glasgow, UK

November 2015. **McLean, K.D.** The Effects of Urbanization on the Genetic Composition of Microbial Communities in Agricultural Soil. Poster presentation at the Annual Biomedical Research Conference for Minority Students, Seattle, WA

August 2015. **McLean, K.D.** The Influence of Urbanization on Bacterial Communities in Agricultural Soil. Oral presentation at the 23rd Annual University of California Berkeley McNair Symposium, Berkeley, California

July 2015. **McLean, K.D.** Getting the Dirt on Our Sustainable Future: The Influence of Urbanization on the Soil Microbiome. Oral presentation at the Westminster McNair Scholar Symposium, Salt Lake City, Utah

April 2015. **McLean, K.D.** Soil Community Composition in Rural, Suburban, and Urban Agriculture. Poster presentation at the 14th Annual Westminster Undergraduate Research Fair, Salt Lake City, Utah

VIII. PROFESSIONAL SOCIETIES

Society for the Study of Evolution (2018 – present)

American Association for the Advancement of Science (2018 – present)

Association for Women in Science (2018 – present)

Ecological Society of America (2017)

American Chemical Society (2014)

IX. SERVICE & OUTREACH

- 2018 – 2020 Admissions Committee member
Graduate Researchers in Ecology and Evolutionary Biology (GREEBs)
- 2018 – present Point person for focus group addressing gender-based harassment in academia
Graduate Researchers in Ecology and Evolutionary Biology (GREEBs)
- 2017, 2018 Lead Instructor
Prove It! Data Analysis workshop, Wolverine Pathways college bridge program
- 2018 Lead instructor
Females Excelling More in Math, Engineering, and Science (FEMMES)
- 2017 SEEDS mentor
Ecological Society of America Conference (ESA)
- 2017, 2018 Volunteer Timekeeper and Science Judge
National Ocean Sciences Bowl (NOSB)
- 2016, 2017 Instructor assistant
Females Excelling More in Math, Engineering, and Science (FEMMES)