

Kyle J. Card

CONTACT INFORMATION	6140 Biomedical Physical Sciences Department of Microbiology & Molecular Genetics Michigan State University East Lansing, Michigan 48824 USA	Email: cardkyle@msu.edu
EDUCATION	PhD Candidate, Microbiology & Molecular Genetics and Ecology, Evolutionary Biology, & Behavior Research Topic: Evolution of antibiotic resistance in a long-term experiment with <i>Escherichia coli</i> Advisor: Richard Lenski Michigan State University, East Lansing, Michigan USA Bachelor of Science with honor, Microbiology Michigan State University, East Lansing, Michigan USA Graduation: May 2013	
JOURNAL PUBLICATIONS	Card, K.J. , LaBar, T., Gomez, J.B., & Lenski, R.E. (2019). Historical contingency in the evolution of antibiotic resistance after decades of relaxed selection. <i>PLoS Biology</i> , 17(10), e3000397. Lenski, R.E., Wisser, M.J., Blount, Z.D., Nahum, J.R., Morris, J.J., Zaman, L., Turner, C.B., Wade, B.D., Madamsetti, R., Burmeister, A.R., Baird, E.J., Bundy, J., Grant, N.A., Card, K.J. , Rowles, M., Weatherspoon, K., Papoulis, S.E., Sullivan, R., Clark, C., Mulka, J.S., & Hajela, N. (2015). Sustained fitness gains and variability in fitness trajectories in the long-term evolution experiment with <i>Escherichia coli</i> . <i>Proceedings of the Royal Society London B</i> , 282(1821), 20152292 Ji, Z., Card, K.J. , & Dazzo, F.B. (2015). CMEIAS JFrad: A digital computing tool to discriminate the fractal geometry of landscape architectures and spatial patterns of individual cells in microbial biofilms. <i>Microbial Ecology</i> , 69(3), 710-720	
FELLOWSHIPS & AWARDS	Howard Hughes Medical Institute (HHMI) Gilliam Fellowship , 2017 - Russell B. DuVall Scholar Award , Department of Microbiology & Molecular Genetics, Michigan State University, 2019. Rudolf Hugh Scholarship Award , Department of Microbiology & Molecular Genetics, Michigan State University, 2017 William S. Sayer Award , Department of Microbiology & Molecular Genetics, Michigan State University, 2013	
GRANTS	NSF BEACON Center Internal Grant , BEACON's Legacy of Research and Diversity in the Long-Term Evolution Experiment. R. Lenski, N. Grant, K. Card , & J. Bundy. (Funded: 2019-2020, \$89,999) NSF BEACON Center Internal Grant , Correlated Responses in Metabolism and Antibiotic Resistance in the LTEE. N. Grant, K. Card , R. Lenski, M. Thomas, & J. Graves. (Funded: 2018-2019, \$94,583) NSF BEACON Center Internal Grant , An Empirical Test of the Evolution of Cooperation by	

the Hankshaw Effect. B. Connelly, **K. Card**, B. Kerr, R. Lenski, & L. Zaman. (Funded: 2016-2017, \$79,791)

CONTRIBUTED
PRESENTATIONS

Talks

Ecology and Evolutionary Biology (EEB) Department Lunch Seminar, **Invited Talk**, University of Michigan, Ann Arbor, MI. October, 2019.

Microbial Population Biology, Gordon Research Seminar, **Selected Talk**, Andover, NH. July, 2019.

Molecular Mechanisms in Evolution, Gordon Research Seminar, **Selected Talk**, Easton, MA. June, 2019.

Ecology, Evolutionary Biology, and Behavior (EEBB) Colloquium Seminar, Michigan State University, East Lansing, MI. January, 2019.

BEACON Congress, Michigan State University, East Lansing, MI. August, 2018.

Midwest Ecology & Evolution Conference, Michigan State University, Hickory Corners, MI. April, 2018.

BEACON NSF Site Visit, **Invited Talk**, Michigan State University, East Lansing, MI. December, 2017.

Midwest Ecology & Evolution Conference, University of Illinois Urbana-Champaign, March, 2017.

Ecology, Evolutionary Biology, and Behavior (EEBB) Colloquium Seminar, Michigan State University, East Lansing, MI. April, 2017.

Posters

Microbial Population Biology, Gordon Research Conference, Andover, NH. July, 2019.

Molecular Mechanisms in Evolution, Gordon Research Conference, Easton, MA. June, 2019.

BEACON NSF Site Visit, Michigan State University, East Lansing, MI. December, 2018.

Gilliam Annual Fellows Meeting, Howard Hughes Medical Institute, Ashburn, Virginia. September, 2018.

Population, Evolution, and Quantitative Genetics Conference, Madison, Wisconsin. May, 2018.

Gilliam Annual Fellows Meeting, Howard Hughes Medical Institute, Chevy Chase, Maryland. September, 2017.

BEACON Congress, Michigan State University, East Lansing, Michigan. August, 2015.

University Undergraduate Research and Arts Forum, Michigan State University, East Lansing, Michigan. April, 2013.

TEACHING
EXPERIENCE

Teaching Assistant, Fundamentals of Microbiology, Michigan State University, Spring 2016.

Teaching Assistant, Advanced Microbiology Laboratory, Michigan State University, Fall 2015.

MENTORSHIP

Undergraduate Research Assistant

Jalin Jordan (Chemistry), February, 2019 -
Jasper Gomez (Biomedical Laboratory Diagnostics Program), May, 2016 - July, 2019.
Tanush Jagdish (visiting from Kalamazoo College), December, 2015.
Lucas Werner (Biochemistry & Molecular Biology), March, 2015.
Jacob Wright (Zoology), December, 2014.

Doctoral Student

Thomas LaBar (Microbiology & Molecular Genetics), October, 2016 - August, 2017.

PROFESSIONAL
DEVELOPMENT

Internship at the Michigan Department of Health & Human Services - Infectious Disease Division, September, 2018 - January, 2019.

Broadening Experiences in Scientific Training (BEST) Trainee, October, 2017 -

SERVICE

Journal Peer Review, mSystems

Member of Select Group for MMG Graduate Curriculum Redesign, October, 2019 -

Diversity, Equity, and Inclusion Task Force Member for the American Society for Microbiology, September, 2019 -

Ad hoc Review, NSF BEACON Center Internal Grants, 2016 - 2019.

BioMolecular Science Gateway Program Recruitment, 2015 - 2019.

Department of Microbiology & Molecular Genetics Host for Seminar Speaker, Adam Lauring, October, 2018.

Department of Microbiology & Molecular Genetics Host for Seminar Speaker, Michael Baym, February, 2018.

Department of Microbiology & Molecular Genetics Escort for Faculty Candidate, Daria Van Tyne, February, 2018.

Department of Microbiology & Molecular Genetics Escort and Student Coordinator for Faculty Candidate, Jeffrey Barrick, December, 2017.

Department of Microbiology & Molecular Genetics Retreat Committee, October, 2016.

Microbiology & Molecular Genetics Faculty Meeting Representative, August, 2015 - May, 2016.

Poster Evaluator: Undergraduate Research & Arts Forum, Michigan State University, 2015, 2016, 2018; Mid-Michigan Symposium for Undergraduate Research Experiences, Michigan State University, 2016, 2018.

OUTREACH

Darwin Discovery Day Volunteer, taught the general public about experimental evolution and the long-term evolution experiment (LTEE), Michigan State University Museum, 2017 - 2019.

Matter with Curiosity Blog, used to promote evolution and disability advocacy in STEM fields, 2014 -

Microbiology Day Volunteer, taught the general public about bacterial chemotaxis and motility, Impression 5 Science Museum, 2015.

MEDIA
APPEARANCES

MSU Today, October, 2019.

The Sci-Files Radio Interview about the evolution of antibiotic resistance and mentoring, July, 2019.

WKAR Radio Interview about disability advocacy and my story about how I became a research scientist, June, 2019.

SOCIETY
MEMBERSHIPS

American Society for Microbiology, 2015 -

American Association for the Advancement of Science, 2014 -