
Ford Josiah Fishman

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847-637-7334

EDUCATION

Indiana University, Bloomington, IN

August 2019—Present

Department of Biology

PhD - Evolution, Ecology, and Behavior

Focus in Ecology, Genetics Minor

Advisor: Jay T. Lennon

Hope College, Holland, MI

August 2015—May 2019

BS, Biology, Mathematics Minor

Summa cum laude

Advisors: Aaron Best, K. Greg Murray

RESEARCH EXPERIENCE

PhD Student

August 2019—Present

Advisor: Jay T. Lennon

Indiana University, Bloomington, IN

Undergraduate Researcher

May 2016—May 2019

Advisor: Aaron Best

Hope College, Holland, MI

Research Experience for Undergraduate (REU) Student

June—August 2017

Advisor: Zackary Johnson

Duke University Marine Laboratory, Beaufort, NC

Hope College Day 1 Phage Discovery Research Student

August 2015—May 2016

Advisors: Aaron Best, Joseph Stuke

Hope College, Holland, MI

FELLOWSHIPS, HONORS & AWARDS

IU Departmental Research Recruitment Fellowship	Spring 2021
<i>Phi Beta Kappa</i>	May 2019–Present
<i>Sigma Xi</i>	May 2019–Present
Hope College Patterson Memorial Prize in Biology	May 2019
<i>Beta Beta Beta</i> Biological Honor Society	April 2017–Present
Hope College Dean's List	August 2015–May 2019
Hope College Presidential Scholarship	August 2015–May 2019

MANUSCRIPTS UNDER REVIEW

Peterson, JW; Fry, BM; Wade, DR; **Fishman, FJ**; Stid1, JT; Peterson, JM; Tarp1, CE; Wade, RD; Brokus, SA; Pikaart, MJ; Krueger, BP; Best, AA. *Application of Point-of-Use Water Filters and Polyurethane Foams as a Global Reconnaissance Method to Characterize Particulates and Heavy Metals in Untreated Drinking Water Sources*. Environmental Monitoring and Assessment.

CONTRIBUTIONS*

Anders, KR; Barekzi, N; Best, AA; Frederick, GD; Mavrodi, DV; Vazquez, E; ... Hatfull (2017). *Genome Sequences of Mycobacteriophages Amgine, Amohnition, Bella96, Cain, DarthP, Hammy, Krueger, LastHope, Peanam, PhelpsODU, Phrank, SirPhilip, Slimphazie, and Unicorn*. Genome Announcements, 5(49), e01202-17. <http://doi.org/10.1128/genomeA.01202-17>

CONFERENCES ATTENDED

ASM Microbe Online	June 2020
ASM Microbe	June 2019

* Contributed to annotation of Krueger genome
(https://seaphages.org/media/GA_authors/GA5_Students_9-22-17.pdf)

PRESENTATIONS

Fishman, F & Lennon, J (2020). *Macroevolutionary Constraints on Global Microbial Biodiversity*. Online poster presented at: ASM Microbe Online 2020

Slater, A; Moen, F; Belica, C; **Fishman, F**; Pearch, A; Peecher, J; Smith, S; Powers, M; Brokus, S; Wade, R; Pikaart, M, Best, A (2019). *Genomic Diversity of Escherichia Populations During Baseflow and Quickflow Conditions in a Freshwater Watershed*. Poster presented at: ASM Microbe 2019; 2019 June 18–22; San Francisco, CA.

Fishman, F; Parshall, A; Barrera, N; Binder, P; Huffman, M; Jeavons, A; Klein, A; Kleinheksel, W; Luke, M; Morehead, E; Sanders, C; Slater, A; Tarp, C; Turner B; and Best, A (2017). *Seasonal Variation in Microbial Populations in Lake Macatawa Watershed*. Poster presented at: Hope College Celebration of Undergraduate Research 2017; 2017 April 21; Holland, MI.

Darnell, A; Downs, E; Draper, R; **Fishman, F**; Harders, C; Isola, J; Keiser, K; Knight, T; Lindquist, A; Mozdren, S; Obiri-Yeboah, D; Oostindie, M; Pearce, C; Pelyhes, D; Peterson, J; Smith, S; Tobias, T; Vroom, A; Bogolin, M; Fischman, H; Royer, J, Stuke, J; and Best, A (2016). *Isolation of 18 Novel Mycobacteriophages and Genomic Analyses of Krueger and Phrappuccino*. Hope College Celebration of Undergraduate Research 2016; 2016 April 21; Holland, MI.

TEACHING

Associate Instructor

Introductory Biology Lecture (BIOL-L111)

Microorganism Laboratory (BIOL-M215)

Microbiology Laboratory (BIOL-M315)

Indiana University, Bloomington, IN

Fall 2020

Spring 2020

Fall 2019, Spring 2020

Teaching Assistant

Biology of Microorganisms (BIOL 231)

Hope College, Holland, MI

Spring 2019

Peer Tutor for Biology and Chemistry

Hope College, Holland, MI

Fall 2016

MEMBERSHIP & OUTREACH

EcoLunch Committee Member

Organized ecology-focused seminar series

Indiana University, Bloomington, IN

Fall 2020

Science Fest Presenter

Guided members of public through educational activities

Indiana University, Bloomington, IN

Fall 2020

SKILLS

Computational

- Python, R, Bash, Mathematica, Java, HTML, CSS
- Object-Oriented Programming
- Machine Learning
- Basic Linear Algebra and Differential Equation Analysis
- Operational taxonomic unit (OTU) on MiSeq output with mothur and minimum entropy decomposition (MED)

Laboratory

- DNA filtering, DNA extraction, PCR, and gel electrophoresis
- Dissolved oxygen and suspended solids testing
- Purification and culturing of *E. coli*

Field Work

- Collecting biological and chemical water samples
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