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# Ford Josiah Fishman

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## 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* (3.98/4.0 GPA)

Advisors: Aaron Best, K. Greg Murray

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## 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

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## 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

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## 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>

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## CONFERENCES ATTENDED

American Society of Microbiology (ASM)	June 2019
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## PRESENTATIONS

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;

\* Contributed to annotation of Krueger genome  
([https://seaphages.org/media/GA\\_authors/GA5\\_Students\\_9-22-17.pdf](https://seaphages.org/media/GA_authors/GA5_Students_9-22-17.pdf))

Smith, S; Tobias, T; Vroom, A; Bogolin, M; Fischman, H; Royer, J, Stukey, 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.

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## TEACHING

**Associate Instructor: Microbiology Laboratory (M215 & M315)** Fall 2019, Spring 2020  
Head Instructor: Carl Kulow Indiana University, Bloomington, IN

**Teaching Assistant: Biology of Microorganisms (BIOL 231)** Spring 2019  
Head Instructor: Joseph Stukey Hope College, Holland, MI

**Peer Tutor for Biology and Chemistry** Fall 2016  
Hope College, Holland, MI

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## SKILLS

### Computational

- Python, R, Bash, Mathematica, Java
- Object-Oriented Programming
- 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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