Jonathan Mah

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Education

University of Washington, Seattle   Sep 2016 - Present
B.S. Applied & Computational Mathematical Sciences,   Expected June 2020
Biochemistry (With Honors), and Microbiology (With Distinction).

Research

Honors Thesis Research, Department of Microbiology   Feb 2018 - Present
Advised by Dr. Jesse Bloom, Fred Hutchinson Cancer Research Center.
Project: Identifying Sites Under Positive Selection on Viral Proteins.
- Implemented random-effects-likelihood approach towards inferring site-specific positive selection pressure on viral proteins.
- Contributed to development of python package, *phydms*.

UCLA Bruins-in-Genomics SPUR   June 2019 - August 2019
Advised by Professor Kirk Lohmueller, University of California, Los Angeles.
Project: Quantifying the Statistical Power in the Inference of the Evolution of the Distribution of Fitness Effects in Canine Lineages.
- Performed forward population genetics simulations to model canine evolution.
- Developed bioinformatics pipeline to infer demographic parameters and the underlying distribution of fitness effects in simulated and empirical canine lineages.

Awards & Fellowships

Washington Research Foundation Fellowship   Oct 2019 - June 2020
Washington Research Foundation
Herschel-Roman Scholarship   Sep 2019 - June 2020
Department of Genome Sciences, University of Washington
Undergraduate Research Award   Dec 2018 - Aug 2019
Department of Microbiology, University of Washington
Mary Gates Research Scholarship   Dec 2018 - June 2019
Mary Gates Endowment

Presentations

1. Guardado, M.A.*, **Mah, J.C.***, Garcia, J.A., Amorim, C.E.G., Lohmueller, K.E. Quantifying the Statistical Power in the Inference of the Evolution of the Distribution of Fitness Effects in Canine Lineages. *UCLA Bruins-In-Genomics Summer Program for Undergraduate Research Symposium.* Los Angeles, CA (2019). Poster presentation.
2. **Mah, J.C.**, Hilton, S.K., Bloom, J.D. Identifying Sites Under Positive Selection on Influenza Hemagglutinin. *University of Washington Undergraduate Research Symposium.* Seattle, WA (2019). Poster presentation.

Teaching and Outreach

School of Medicine, University of Washington   Sep 2019 - Present
Undergraduate Teaching Assistant for MICROM 302: General Microbiology Laboratory.
- Facilitated a microbiology lecture and laboratory course for 16-24 students.
- Assisted in writing, grading, and proctoring written examinations.

Undergraduate Research Program, University of Washington   Oct 2019 - Present
Undergraduate Research Leader.
- Organized outreach activities to increase involvement in undergraduate research.