

KATIE M. SAUND

katiephd@umich.edu • 313.418.3016 • linkedin.com/in/katiesaund • katiesaund.com • github.com/katiesaund/

EDUCATION

University of Michigan

PhD candidate in Microbiology & Immunology

Ann Arbor, MI

2015 – 2020 *expected*

- **Awards:** NIH Predoctoral Training Grant in Genetics (2016 – 2018) & UM Benard Maas Fellowship (2015)

California Institute of Technology

B.S., Biology

Pasadena, CA

2008 – 2012

- **Awards:** Doris Everhart Service Award (2012), Frank Teruggi Memorial Award (2011), Paul Studenski Memorial Fund Prize (2010), & Don Shepard Award (2009).

RESEARCH

PhD candidate in Microbiology & Immunology

University of Michigan

2015 – present

Ann Arbor, MI

- Advisor: Evan Snitkin, Ph.D.
- Thesis project: Apply statistical approaches to identify & validate genetic variants associated with *in vitro* phenotypes and patient outcomes during *Clostridium difficile* infection.
- Paper: T. Mau, S. Eckley, I. Bergin, K. Saund, J. Villano, K. Vendrov, E. Snitkin, V. Young, & R. Yung. Outbreak of murine infection with *C. difficile* associated with the administration of a methyl-donor diet. *Submitted*.
- Posters & talks:
 - K. Saund & E. Snitkin. "Bacterial genome-wide association study to identify genetic variants linked to complex *in vitro* phenotypes" Invited flash talk: Systems Biology & Antibacterial Resistance Program. La Jolla, CA, 2018. Poster: Lake Arrowhead Microbial Genomics. Lake Arrowhead, CA, 2018.
 - K. Saund & E. Snitkin. "Identification of genetic variation associated with clinical success in *C. difficile*." Poster: 10th International Conference on the Molecular Biology and Pathogenesis of the Clostridia. Ann Arbor, MI, 2017.

Research Assistant | Research Scientist I (promoted 2014)

Seattle Children's Research Institute

2012 – 2015

Seattle, WA

- Advisor: Courtney Crane, Ph.D.
- Project: Characterization of the role of lactate dehydrogenase in the pediatric glioma microenvironment.
- Paper: Haberthur K., Brennan K., Hoglund V., Balcaitis S., Chinn H., Davis A., Kreuser S., Winter C., Leary S.E.S., Deutsch, G.H., Ellenbogen, R.G., and Crane, C.A. (2016). NKG2D ligand expression in pediatric brain tumors. *Cancer Biology & Therapy*.
- Poster: Moyes, K.W., Brennan, K.M., & Crane, C.A. "Receptor for Lactate Dehydrogenase V is a Novel Therapeutic Target for Glioblastoma." 8th Annual Canadian Cancer Immunotherapy Consortium Symposium, Vancouver, Canada, 2015.

SKILLS

Computational Languages: R, Python *Other:* High-performance cluster computing, bash scripting, git
Laboratory Anaerobic bacterial culture, protein co-immunoprecipitation, CRISPR/Cas9 genome editing, lentiviral production & transduction, mammalian cell culture, molecular biology, mRNA isolation, qPCR
Software Adobe Illustrator, GraphPad PRISM, Tree Star FlowJo

EXTRACURRICULARS, TEACHING & LEADERSHIP

Student Advisor at Wolverine Venture Fund

University of Michigan

2018 – Present

Ann Arbor, MI

- Advisor: Erik Gordon, J.D.
- Sourcing deals and performing due diligence on Series A and Series B healthcare and technology investment opportunities; working in close collaboration with local VCs and startup CEOs.

Instructor

2018 – Present

- Course: Introductory Laboratory in Medical Microbiology
- Taught basics of bacterial isolation, cultivation, and identification to 16 undergraduates

Co-President for Caltech Class of 2012

2011 – 2012

- Coordinated commencement and obtained \$6,000 grant to subsidize senior class trip.