



# Adam **Kirosingh**

PHD CANDIDATE

Biological Medical Innovations at Stanford University

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*Highly effective microbiologist, with graduate work focusing on maternal immunity during pregnancy. I am interested in the application of data-driven experiments to drive translational research in the context of drug discovery, disease biology characterization, large data analytics for biology, while focused on bridging the gap between the computational and experimental labs through highly engaging and fruitful collaborations.*

## Technical Skills

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### Programming Languages

R, PYTHON, MATHEMATICA, MATLAB

### Markup Languages

CSS, HTML, L<sup>A</sup>T<sub>E</sub>X, RMARKDOWN, BOOTSTRAP

### Version Control

GIT

### Text Editors

RSTUDIO, VIM, VISUAL STUDIO CODE

### Microsoft Office

EXCEL, OUTLOOK, ONENOTE, POWERPOINT, WORD

## Education

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### Stanford University

PHD MICROBIOLOGY & IMMUNOLOGY

Stanford

2017 - NA

### University of Nevada Reno

BSc MOLECULAR MICROBIOLOGY & IMMUNOLOGY WITH MINORS IN MATHEMATICS & CHEMISTRY

Reno

2013 - 2017

### Coronado High School

DIPLOMA

Henderson

2009 - 2013

## Experience

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### Graduate Writing Tutor

HUME CENTER FOR WRITING AND SPEAKING

Stanford - California

June 2020 - Present

- Virtual one-on-one tutoring with undergraduates and graduate students at all stages of the writing process ranging from scholarship applications to written class assignments.

### Fall 2021 Tutoring Feedback

### Winter 2021 Tutoring Feedback

## Honors

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### Honors Undergraduate Research Award

GRANTED TO HONORS STUDENTS WITH EXCEPTIONAL THESES

University of Nevada, Reno

2016

- Honors Thesis: In vivo distribution of *B. pseudomallei* capsular polysaccharide

### Poster Award for SACNAS Diversity Conference

AWARDED BY SACNAS TO LESS THAN 5% OF POSTER PRESENTERS AT ANNUAL CONFERENCE

Long Beach, CA

2016

- Poster: Probability distributions of system average interruption frequency index

**Barry M. Goldwater Scholarship Honorable Mention**

Saint Peter, MN

AWARDED FOR EXCELLENT APPLICATIONS TO THE GOLDWATER SCHOLARSHIP

2016

- Proposal on Immunoglobulin G Subclass Switching Impacts Sensitivity of an Immunoassay Targeting *Francisella tularensis* Lipopolysaccharide

**Nevada Undergraduate Research Award**

University of Nevada, Reno

GIVEN TO UNDERGRADUATE STUDENTS WITH PROMISING RESEARCH PROPOSALS

2014

- Awarded 3 consecutive years

**American Society for Microbiology Undergraduate Research Fellow**

Washington, DC

COMPETITIVE NATIONAL FELLOWSHIP FOR RESEARCH IN MICROBIOLOGY

2016

- Led to a poster presentation at ASM Microbe 2017

**Nevada INBRE Undergraduate Research Opportunity Program**

University of Nevada, Reno

FUNDING FOR UNDERGRADUATE RESEARCH IN BIOSCIENCES

2015

**Ronald E. McNair Post-Baccalaureate Achievement Program Scholar**

University of Nevada, Reno

SCHOLARS PROGRAM FOR FIRST-GENERATION COLLEGE STUDENTS PURSUING HIGHER EDUCATION

2014

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**Publications**

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1. Hurtado, P. J., & Kirosingh, A. (2019). Generalizations of the “Linear Chain Trick”: Incorporating more flexible dwell time distributions into mean field ODE models. *Journal of Mathematical Biology*, 79(5), 1831–1883. <https://doi.org/10.1007/s00285-019-01412-w>
2. Hurtado, P., & Kirosingh, A. (2018, August). The Generalized Linear Chain Trick: A new tool to build ODE models with more flexible dwell-time distributions. *2018 ESA Annual Meeting (August 5 – 10)*.
3. Nualnoi, T., Kirosingh, A., Basallo, K., Hau, D., Gates-Hollingsworth, M. A., Thorkildson, P., Crump, R. B., Reed, D. E., Pandit, S., & AuCoin, D. P. (2018). Immunoglobulin G subclass switching impacts sensitivity of an immunoassay targeting *Francisella tularensis* lipopolysaccharide. *PLOS ONE*, 13(4), e0195308. <https://doi.org/10.1371/journal.pone.0195308>
4. Kirosingh, A. (2017, February). PROBABILITY DISTRIBUTIONS OF SYSTEM AVERAGE INTERRUPTION FREQUENCY INDEX. *2017 AAAS Annual Meeting (February 16-20, 2017)*.
5. Nualnoi, T., Kirosingh, A., Pandit, S. G., Thorkildson, P., Brett, P. J., Burtnick, M. N., & AuCoin, D. P. (2016). In vivo Distribution and Clearance of Purified Capsular Polysaccharide from *Burkholderia pseudomallei* in a Murine Model. *PLOS Neglected Tropical Diseases*, 10(12), e0005217. <https://doi.org/10.1371/journal.pntd.0005217>

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**References**

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References will be provided upon request.