

Education

University of Toronto, 2022- PhD in Ecology & Evolutionary Biology, University of Toronto
Supervisors: Drs. Matthew Osmond, Nicole Mideo

- **Research interests:** ecology & evolution of RNA viruses; host-pathogen interactions; zoonotic emergence; recombination rate variation; modifier theory; coalescent theory
- **Teaching:** [EEB313: Quantitative Methods in R for Biologists](#) (co-instructor F23, F24)
- **TAing:** EEB468 (F22), BIO120 (F22), EEB319 (F23), EEB313 (course development, S24), EEB325 (S25)

University of Idaho, 2018-2022 BSc in Mathematics *General & Applied Quant. Modeling Options*
BSc in Statistical Science *General Option*

- **Coursework:** computational statistics, genomics, ODEs, PDEs, mathematical genetics, etc.
- **TAing:** MATH330 (F19), MATH215 (F20, F21), MATH461 (F21)

Publications

- Keefer, M., **Yuksel, M.**, & Caudill, C. Decision Support Modeling for Outplanting Adult Chinook Salmon in the Santiam River Basin (Technical Report 2022-1 for US Army Corps of Engineers).
- **Yuksel, M.**, Remien, C., Karki, B., Bull, J., & Krone, S. (2021). Vector dynamics influence spatially imperfect genetic interventions against disease. *Evolution, Medicine, & Public Health*, 9(1), 1-10.

Selected awards

I have sought and secured **>\$150,000 CAD in competitive research funding and scholarships**. I have also received several awards for academic excellence.

2024-27 University of Toronto Data Sciences Institute Doctoral Fellowship (\$79,500 CAD)
2023-24 University of Toronto Institute for Pandemics Graduate Studentship (\$10,000 CAD)
2022-27 Connaught International Doctoral Scholarship (\$50,000 CAD)
2022-24 Faculty of Arts & Science Doctoral Recruitment Award (\$10,000 CAD)
2022 John B. George Award, presented to the top graduating senior in the College of Science

Selected presentations

2024 Evolution, the joint annual meeting of the ASN, SSE, and SSB
Mathematical Models in Ecology & Evolution
2023 Ecology & Evolution of Infectious Diseases Conference
University of Toronto Atwood Colloquium in Ecology & Evolutionary Biology
2022 Workshop in Mathematical and Computational Biology
Pacific Inland Mathematics Undergraduate Conference

Selected service

2023-24 Atwood Colloquium in Ecology & Evolution Lecture Committee Chair
2022-23 Member of Ecology & Evolutionary Biology Wellness Committee, EDI Subcommittee
 ● Co-led development of \$8K research award for BIPOC undergraduates
2022-23 CUPE 3902 Steward for Dept. Ecology & Evolutionary Biology
2021-22 Member of the University of Idaho COVID Committee
2017-19 Member of the City of Moscow Sustainable Environment Commission