

## EDUCATION

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### University of Toronto

Toronto, Canada

Ph.D., Ecology and Evolutionary Biology

2019–Present

Thesis: *Evolutionary Genomics of Plant Gametophytic Selection*

Supervisors: Stephen I. Wright, John R. Stinchcombe

### Sichuan University

Chengdu, China

B.Sc. in Biological Sciences, minor in Software Engineering

2015–2019

Thesis: *Identification of Meiotic Drivers in Rumex hastatulus*

Thesis supervisor: Stephen I. Wright

## SCHOLARSHIPS AND AWARDS

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- Mitacs Globalink Graduate Fellowship \$15,000, Mitacs Canada 2019–2020
- EEB Harold H. Harvey Travel Award \$400, U of T 2022
- EEB Rustom H. Dastur Graduate Scholarship \$3,200, U of T 2022 & 2023

## PUBLICATIONS

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Rifkin, J. L., Hnatovska, S., **Yuan, M.**, Sacchi, B. M., Choudhury, B. I., Gong, Y., Rastas, P., Barrett, S. C. H., & Wright, S. I. (2022). Recombination landscape dimorphism and sex chromosome evolution in the dioecious plant *rumex hastatulus*. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 377(1850), 20210226.

**Yuan, M.**, & Stinchcombe, J. R. (2020). Population genomics of parallel adaptation. *Molecular Ecology*.

Zhang, Z., Dong, H., **Yuan, M.**, & Yu, Y. (2020). The complete chloroplast genome of *oenanthe javanica*. *Mitochondrial DNA Part B*, 5(3), 3169–3171.

## PRESENTATIONS

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- **Yuan M**, Sacchi BM, Choudhury BI, Rifkin JL, Barrett SCH, Stinchcombe JR & Wright SI 2022  
*Genome-wide characterization of genetic variation for pollen expression in Rumex hastatulus*. Poster at Congress of the European Society for Evolutionary Biology, Prague, Czech Republic
- **Yuan M**, Rifkin JL, Kim D, Jarvis-Cross M, Barrett SCH, Wright SI & Stinchcombe JR 2021  
*Testing for genome-wide balancing selection due to antagonistic pleiotropy between life-stages*. Talk at Evolution, Online
- **Yuan M**, Rifkin JL, Kim D, Jarvis-Cross M, Barrett SCH, Wright SI & Stinchcombe JR 2021  
*Testing for genome-wide balancing selection due to antagonistic pleiotropy between life-stages*. Poster at Society for Molecular Biology and Evolution (SMBE), Online

## TEACHING

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- **Teaching Assistant** (tutorial), EEB125 Introductory Computation and Data Science for the Life and Physical Sciences, U of T Winter 2023
- **Teaching Assistant** (lab), EEB225 Biostatistics for Biological Science, U of T Fall 2021 & 2022
- **Teaching Assistant** (marking), BIO120 Adaptation and Biodiversity, U of T Fall 2021
- **Teaching Assistant** (marking), BIO220 From Genomes to Ecosystems in a Changing World, U of T Winter 2021
- **Teaching Assistant** (lab), BIO120 Adaptation and Biodiversity, U of T Fall 2019 & 2020

## COMMUNITY OUTREACH

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- **EEB Mental Health Committee Co-Chair**, U of T 2022–2023
- **EEB Student Journal Club Chair**, U of T 2021–2022
- **EEB Quarterly Layout Editor**, U of T 2020–2021
- **Preprint Editorial Team**, *Proceedings of the Royal Society B* Bioinformatics Section 2020–Present
- **Executive Committee**, Chinese Genomics Online Meet-up Spring & Fall 2020
- **Founder and President**, Botany Association at Sichuan University 2016–2018

## WORKING EXPERIENCE

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**Simon Fraser University** Burnaby, Canada  
Mitacs Globalink Intern, Supervisor: Jim Mattsson Summer 2018  
Project: *RNA Sequencing-based Analysis of Economical Traits in Tree Species*