

Felix Beaudry

felix.beaudry@gmail.com | www.felixbeaudryresearch.com

RESEARCH EXPERIENCE

Postdoctoral Researcher, Department of Biology
University of Rochester
Supervisor: Dr. Nancy Chen
Since 2020

Postdoctoral Researcher, Department of Biology
University of Toronto
Supervisor: Dr. Maydianne Andrade
May-July 2020

EDUCATION

PhD, Department of Ecology and Evolutionary Biology
University of Toronto
Supervisor: Dr. Stephen Wright
Thesis title: Recombination restriction, degeneration and population divergence on plant sex chromosomes
June 2020

Bachelor of Science (Honours), Department of Biology
University of Victoria
Supervisor: John Taylor
Thesis title: Why do fish have so many opsins?
2014

PUBLICATIONS

Refereed publications (shared authorship)*

- Beaudry FEG**, Rifkin JL, Barrett SCH, Wright SI. 2020. Evolutionary Genomics of Plant Gametophytic Selection. *Plant Communications*. In press.
- Rifkin JL*, **Beaudry FEG***, Humphries Z, Choudhury BI, Barrett CH, Wright SI. 2020. Widespread recombination suppression facilitates plant sex chromosome evolution. *MBE*. In press.
- Beaudry FEG**, Wright SI. 2020. Chromosome Evolution: Infectious Sex Chromosomes in the African Monarch Butterfly. *Current Biology*. 30(11): R657-R65
- Beaudry FEG**, Barrett SCH, Wright SI. 2019. Ancestral and neo-sex chromosomes contribute to population divergence in a dioecious plant. *Evolution*. 74(2):256-279.
- Sandler G, **Beaudry FEG**, Barrett SCH, and Wright SI. 2018. The effects of haploid selection on Y chromosome evolution in two closely related dioecious plants. *Evolution Letters*. 2(4):368-377
- Beaudry FEG**, Barrett SCH, Wright SI. 2017. Genomic loss and silencing on the Y chromosomes of *Rumex*. *Genome Biology and Evolution*. 9(12):3345-3355
- Beaudry FEG**, Iwanicki T, Mariluz B, Darnet S, Brinkmann H, Schneider P, Taylor J. 2017. The non-visual opsins: eighteen in the ancestor of vertebrates, astonishing increase in ray-finned fish, and loss in amniotes. *JEZ-B*. 328:685-696
- Spring 2019: Awarded “Top 20 most downloaded papers” in JEZ-B
- Braasch I et al. (author 24 of 61). 2016. The spotted gar genome illuminates vertebrate evolution and facilitates human-teleost comparisons. *Nature Genetics*. 48(4):427-437

Select presentations

- Beaudry FEG**, Singh N, Condy C, Andrade M. 2020. Genomics of facultative group living in black widow spiders. Virtual Genomic Social Hour, Jul 17, California Academy of Sciences, oral, invited
- Beaudry FEG**, Barrett SCH, Wright S. 2020. Patterns in sex chromosome evolution: insights from plants. Biology E2G2 Seminar, Feb 7, University of Rochester, oral, invited
- Beaudry FEG**, Barrett SCH, Wright S. 2020. Patterns in sex chromosome evolution: insights from the plant *Rumex hastatulus*. BEAP Meeting Seminar, Jan 23, McMaster University, oral, invited
- Beaudry FEG**, Barrett SCH, Wright S. 2019. Haploid selection on large sex chromosomes. Evolution, June 21-25, Providence RI, oral, contributed
- Beaudry FEG**, Barrett SCH, Wright S. 2018. Introgression of a Y chromosome haplotype into a neo-Y karyotype in *Rumex*. Society of Molecular Biology and Evolution (SMBE), July 8-12, oral, contributed
- Beaudry FEG**, Barrett SCH, Wright S. 2016. Genomic deletion and silencing on the Y chromosomes of *Rumex hastatulus*. EvSex, Nov 17- 19, Phoenix AZ, oral, contributed
- Beaudry FEG**, Barrett SCH, Wright S. 2015. Degeneration of the Y chromosome of *Rumex hastatulus*: a search for signs of adaptation. American Genetics Association, August 17-20, Seattle WA, poster, contributed
- Beaudry FEG**, Taylor J. 2014. Why do fish have so many opsins? Society for Molecular Biology and Evolution (SMBE), June 8-12, San Juan PR, poster, contributed

AWARDS

Scholarship awards

- Sustained research excellent of senior PhD student (Peter Abrams Prize; 2019)
- Top 20 most downloaded papers in JEZ-B (2019)
- Student Travel Award (Evolution and Sex Conference; 2016)
- Student Travel Award (American Genetics Association (AGA) Chromosome Evolution Conference; 2015)
- Top grade in the graduating class (BW Pearse Science Scholarship Award; 2014)
- Graduating GPA above 'A' letter grade (Seven-Up Club; 2014)
- Undergraduate Summer Research Award (NSERC; 2014)

Mentorship awards

- Mentored winner of the UofT EEB Undergraduate Poster Fair (2018, 2020)

Outreach awards

- Sustained contributions to the intellectual life of department (Harold Harvey Prize; 2019)

TEACHING EXPERIENCE

Teacher Training: THE500 Teaching in Higher Education (Winter 2018)

Teaching assistantships: BIO120 Adaptation and Biodiversity (Fall 2015, 2019); BIO220 From Genomes to Ecosystems in a Changing World (Winter 2015-16); EEB318 Principles of Evolution (Fall

2016); EHJ352 Evolution of the Human Genome (Fall 2016-18); EEB460 Molecular Evolution (Fall 2017-19)

Guest lectures: EEB318 Principles of Evolution (Nov. 2016); EEB214 Adaptation and Evolution (2018-19); EEB460 Molecular Evolution (Oct. 2019)

MENTORSHIP

Head Organizer for EEB Graduate Mentorship Program (2018-19)

Undergraduate student mentorship: Neil Macalasdair (2015-16); George Sandler (2016-17); Josiah Butt (2017-18); Meng Yuan (2018-19); Amanda Peak (2019-20); Kristin Hardy (2020)

Graduate student mentorship: Leila Forsyth (2016-17); Talia Lowi-Merri (2017-18); Chris Reid (2018-19); Daniel Gillis (2018-19)

ACADEMIC SERVICE

Conference organization

- Atwood Colloquium: Set-up Volunteer (2015-17); Session Moderator (2017-18); Selection Committee Chair (2017-18)
- AGA conference: Quantitative Genetics in the Wild: Volunteer (Mar. 2018)
- The Allied Genetics Conference (TAGC): Session Moderator (July 2016)
- Ontario Ecology Ethology and Evolution Conference (OE3C): Organizing Committee Secretary (2015-16)

Community outreach

- Toronto High-School Science Fair: Judge (2017-19)
- Port Perry High School: Guest lecture in grade 11 science class (2019)
- Upward bound: Lecture co-coordinator (2020)

Student Advisory

- EEB Graduate Student Satisfaction Survey (2017)
- Provincial Government Department External Review (Mar. 2018)

Departmental organizations

- EEB Graduate Student Association (EGSA): Secretary (2015-16); President (2016-17)
- EEB Evolution and Sex Journal Club: Organizer (2017-18)
- Intro to bioinformatics workshop: Organizer (2019, weekly)

Peer review of academic journals: Evolution (2020), Plant Ecology and Diversity (2020), Journal of Heredity (2019), Protoplasma (2019)

Professional society memberships: American Genetic Association (AGA, 2014-2018); Society of Molecular Biology and Evolution (SMBE, 2018-2020); Society for the Study of Evolution (SSE, 2019)