

# Felix Beaudry

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## EDUCATION

**PhD Candidate (ABD)**, Department of Ecology and Evolutionary Biology  
University of Toronto  
Supervisor: Dr. Stephen Wright  
Thesis title: Three correlates of sex chromosome evolution in dioecious *Rumex* Spring 2020  
(expected)

**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

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

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

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

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. Ancestral and neo-sex chromosomes contribute to population divergence in a dioecious plant. *Under review*.

### Conference presentations

2014 “Why do fish have so many opsins?”, Society for Molecular Biology and Evolution (SMBE), June 8-12, San Juan PR, poster, contributed

2015 “Degeneration of the Y chromosome of *Rumex hastatulus*: a search for signs of adaptation” American Genetics Association (AGA) 2015: Chromosome evolution, August 17-20, Seattle WA, poster, contributed

- 2016 “Genomic deletion and silencing on the Y chromosomes of *Rumex hastatulus*” Atwood colloquium, April 15-16, Toronto ON, oral, contributed
- 2016 “Why do plant Y chromosomes grow?”, Ontario Ecology Ethology and Evolution Conference (OE3C), May 5-7, Toronto ON, oral, contributed
- 2016 “Genomic deletion and silencing on the Y chromosomes of *Rumex hastatulus*”, The Allied Genetics Conference (TAGC) July 13-17, Orlando FL, poster, contributed
- 2016 “Genomic deletion and silencing on the Y chromosomes of *Rumex hastatulus*”, EvSex, Nov 17-19, Phoenix AZ, oral, contributed
- 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
- 2019 “Haploid selection on large sex chromosomes” Ontario Ecology Ethology and Evolution Conference (OE3C), May 2-4, Toronto ON, oral, contributed
- 2019 “Haploid selection on large sex chromosomes” Evolution, June 21-25, Providence RI, oral, contributed

## TEACHING EXPERIENCE

### Teaching assistantships

BIO120 Adaptation and Biodiversity	Fall 2015
BIO220 From Genomes to Ecosystems in a Changing World	Winter 2015-16
EEB318 Principles of Evolution	Fall 2016
EEB352 Evolution of the Human Genome	Fall 2016-18
EEB460 Molecular Evolution	Fall 2017-18

### Guest lectures

EEB318: Principles of Evolution	Nov. 2016
<ul style="list-style-type: none"> <li>Lecture title: Sex Chromosomes</li> </ul>	
EEB214: Adaptation and Evolution	2018-19
<ul style="list-style-type: none"> <li>Lecture title: Speciation</li> </ul>	

### Mentorship

#### Undergraduate students:

- Annie Shi 2015-16
- Neil Macalasdair 2015-16
- Georgy Sandler 2016-17
- Josiah Butt 2017-18
  - Winner of the Undergraduate Poster Fair 2018
- Meng Yuan 2018-19

#### Graduate students

- Leila Forsyth 2016-17

- Talia Lowi-Merri 2017-18
- Chris Reid 2018-19
- Daniel Gillis 2018-19

Head Organizer for EEB Graduate Mentorship Program 2018-19

### **Teacher Training**

- THE500: Teaching in Higher Education Jan.-April, 2018

### **ACADEMIC SERVICE**

#### Student Advisory

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

Organizer, EEB Evolution and Sex Journal Club 2017-18

Volunteer, AGA conference: Quantitative Genetics in the Wild Mar. 2018

#### EEB Graduate Student Association (EGSA)

- Atwood Colloquium Selection Committee Chair 2017-18
- President 2016-17
- Secretary 2015-16

#### Atwood Colloquium

- Atwood Colloquium Selection Committee Chair 2017-18
- Session Moderator 2017-18
- Set-up Volunteer 2015-17

Organizer, 'Intro to bioinformatics' workshop 2019, weekly

### **AWARDS**

BW Pearse Science Scholarship Award 2014

- Top grade in the graduating class of 2014 for Science at the University of Victoria

Seven-Up Club 2014

- Graduating GPA above 'A' letter grade

NSERC 2014

- Undergraduate Summer Research Award (USRA)

American Genetics Association (AGA) Chromosome Evolution Conference 2015

- Student Travel Award

Evolution and Sex Conference 2016

- Student Travel Award

Peter Abrams Prize – Honourable mention 2019

- For sustained research excellent of senior PhD student

Harold Harvey Prize – Honourable mention 2019

- For sustained contributions to the intellectual life of EEB dept.

## **EXTRA-CURRICULAR**

### **Science Outreach**

Judge, Toronto High-School Science Fair 2017-19  
Guest lecture on plant genetics in grade 11 class at Port Perry High School 2019

### **Professional Societies**

Member, American Genetic Association (AGA) 2014-2018  
Member, Society of Molecular Biology and Evolution (SMBE) 2018-2020  
Member, Society for the Study of Evolution (SSE) 2019

Session Moderator, The Allied Genetics Conference (TAGC) 2016  
Ontario Ecology Ethology and Evolution Conference (OE3C)  
• Organizing Committee Secretary 2015-16