

# Felix Beaudry

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## Professional appointments

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July 2021 – On-Going	<b>NSF Postdoctoral Fellow</b> Department of Biology <b>Co-Supervisor:</b> Dr. Nancy Chen and Dr. Amanda Larracuente	University of Rochester, NY
Aug 2020 – May 2021	<b>Postdoctoral Researcher</b> Department of Biology <b>Supervisor:</b> Dr. Nancy Chen	University of Rochester, NY
April – July 2020	<b>Postdoctoral Researcher</b> Department of Biology <b>Supervisor:</b> Dr. Maydianne Andrade	UoFT Scarborough, ON

## Education

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June 2020	<b>Ph.D.</b> Department of Ecology and Evolutionary Biology <b>Thesis title:</b> Recombination restriction, degeneration and population divergence on plant sex chromosomes	University of Toronto, ON <b>Supervisor:</b> Dr. Stephen Wright
Dec. 2014	<b>B.Sc.</b> Department of Biology (Honours) <b>Thesis title:</b> Why do fish have so many opsins?	University of Victoria, BC <b>Supervisor:</b> Dr. John Taylor

## Publications

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Authors with equal contribution marked with †. Trainees marked with \*.

### *Peer-reviewed Publications*

1. Rifkin JL<sup>†</sup>, **Beaudry FEG<sup>†</sup>**, Humphries Z, Choudhury BI, Barrett CH, Wright SI. 2020. Widespread recombination suppression facilitates plant sex chromosome evolution. *Molecular Biology and Evolution* 38:1018-1030.
2. **Beaudry FEG<sup>†</sup>**, Rifkin JL<sup>†</sup>, Barrett SCH, Wright SI. 2020. Evolutionary Genomics of Plant Gametophytic Selection. *Plant Communications* 1: 100115.
3. **Beaudry FEG**, Barrett SCH, Wright SI. 2019. Ancestral and neo-sex chromosomes contribute to population divergence in a dioecious plant. *Evolution* 74:256–279.
4. 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* 2:368–377.
5. **Beaudry FEG**, Barrett SCH, Wright SI. 2017. Genomic loss and silencing on the Y chromosomes of *Rumex*. *Genome Biology and Evolution* 9:3345–3355.
6. **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
7. Braasch I, Gehrke AR, Smith JJ, Kawasaki K, Manousaki T, Pasquier J, Angel Amores A, Desvignes T, Batzel P, Catchen J, Berlin AM, Campbell MS, Barrel D, Martin KJ, Mulley JF, Ravi V, Lee AP, Nakamura T, Chalopin D, Fan S, Wcisel D, Cañestro C, Sydes J, **Beaudry FEG**, Sun Y, Hertel J, Beam MJ, Fasold M, Ishiyama M, Johnson J, Kehr S, Lara M, Letaw JH, Litman GW, Litman RT, Mikami M, Ota T, Saha NR, Williams L, Stadler PF, Wang H, Taylor JS, Fontenot Q, Ferrara A, Searle SMJ, Aken B, Yandel M, Schneider I, Yoder JA, Volf JN, Meyer A, Amemiya CT, Venkatesh B, Holland PWH, Guiguen Y, Bobe J, Shubin

NH, Di Palma F, Alföldi J, Lindblad-Toh K, Postlethwait JH. 2016. The spotted gar genome illuminates vertebrate evolution and facilitates human-teleost comparisons. *Nature Genetics* 48:427–437.

#### *Other Publications*

8. **Beaudry FEG**, Wright SI. 2020. Chromosome Evolution: Infectious Sex Chromosomes in the African Monarch Butterfly. *Current Biology* 30: R657–R65.

### Presentations

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#### *Invited Seminars*

Schumer Lab, Stanford	2020
Virtual Genomic Social Hour, California Academy of Sciences	2020
Ecology, Evolution, Genetics, Genomics (E2G2) Seminar, University of Rochester	2020
Bioinformatics, Evolution, Anthropology and Population Genetics (BEAP) Meeting, McMaster University	2020

#### *Contributed Conference Presentations*

Society for Molecular Biology and Evolution (SMBE), (Cancelled)	2020
Society for the Study of Evolution, Providence RI	2019
Ontario Ecology Ethology and Evolution (OE3C), Hamilton, ON	2019
Society of Molecular Biology and Evolution (SMBE), Yokohama Japan	2018
The Allied Genetics Conference (TAGC), Orlando FL	2016
Evolution of Sex Conference, Phoenix AZ	2016
Atwood Colloquium, Toronto ON	2016
Ontario Ecology Ethology and Evolution (OE3C), Toronto ON	2016
American Genetics Association, Seattle WA	2015
Society for Molecular Biology and Evolution (SMBE), San Juan PR	2014

### Honors

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#### *Awards for Scholarship*

Peter Abrams Prize: Sustained research excellence of senior PhD student	2019
Harold Harvey Prize: Sustained contributions to intellectual life	2019
Journal of Evolutionary Zoology-B Top 20 most downloaded paper	2019
BW Pearse Science Scholarship Award: Top grade in the graduating class	2014
Seven-Up Club: Graduating GPA above 'A' grade	2014

#### *Grants*

National Science Foundation (NSF) Postdoctoral Research Fellowship in Biology	2021
Life Sciences Research Foundation (LSRF) Fellowship Finalist	2021
University of Toronto Graduate Student Association Student Travel Grant	2018
Evolution and Sex Conference Student Travel Grant	2016
American Genetics Association (AGA) Student Travel Grant	2015
NSERC Undergraduate Summer Research Award	2014

## Teaching

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

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

**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)

## Mentorship

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*Head Organizer*, EEB Graduate Mentorship Program (University of Toronto) 2018-19

### *Scholarship Awards to trainees*

*Kristin Hardy*, Discover Grant (University of Rochester) 2021

*Amanda Peake*, EEB Undergraduate Poster Fair Winner (University of Toronto) 2020

*Josiah Butt*, EEB Undergraduate Poster Fair Winner (University of Toronto) 2018

**Graduate student mentorship:** Leila Forsyth (2016-17); Talia Lowi-Merri (2017-18); Chris Reid (2018-19); Daniel Gillis (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 (2020-21)

## Service

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### *Diversity and Inclusion*

*Chair*, DIBS Equity and Climate Survey (University of Rochester, NY) 2020-21

*Data Consultant*, [CANVAS](#) Arts Action LGBTQ2S+ Inclusion (Toronto, ON) 2020-21

*Chair*, Equity and Climate Survey (University of Toronto, ON) 2017

### *Community outreach*

*Lecture co-coordinator*, Upward bound (University of Rochester, NY) 2020

*Judge*, Toronto High-School Science Fair (Scarborough, ON) 2017-19

*Guest lecturer*, Port Perry High School (Port Perry, ON) 2019

### *Institutional organizations*

*Leader*, Diversity and Inclusion in the Biological Sciences (DIBS) committee (University of Rochester, NY) 2020-21

*Organizer*, Intro to bioinformatics weekly workshop (University of Toronto, ON) 2019

*Organizer*, EEB Evolution and Sex Journal Club (University of Toronto, ON) 2017-18

*President*, EEB Graduate Student Association (University of Toronto, ON) 2016-17

*Secretary*, EEB Graduate Student Association (University of Toronto, ON) 2015-16

*Conference organization*

*Selection Committee Chair, Atwood Colloquium* 2017-18  
*Committee Secretary, Ontario Ecology Ethology and Evolution Conference* 2015-16

**Peer review of academic journals:** G3 (2021), Molecular Ecology (2021), Cell (2021), Evolution (2020), Plant Ecology and Diversity (2020), Journal of Heredity (2019-20), Protoplasma (2019)

**Professional society memberships:** Society of Molecular Biology and Evolution (SMBE); Society for the Study of Evolution (SSE)