

## Session IV

- 14:00 **Mikaeel Abbas (Wright Lab)**  
Do plants have toxic Y chromosomes?
- 14:20 **Thomas Dudgeon (Evans Lab)**  
Testing trade-offs in the fossil record: socio-sexual vs. natural selection in the evolution of duck-billed dinosaurs
- 14:40 **Vicki M. Zhang (Kotanen Lab)**  
Limits to plant invasions at the edge of the Canadian arctic
- 15:00 **Kevin Ricks (Frederickson Lab)**  
Plant-microbe symbiosis mediates local adaptation in *Lemna minor*
- 15:20 **Dr. Alison Hill**  
The risk of drug resistance evolution with long-acting therapies for infectious diseases
- 15:40 **Elevator Talks**  
Galento Galvez (D'Aloia Lab)  
Hayden Fargo (Johnson Lab)  
Krystyn Forbes (Layton & D'Aloia Labs)  
Zifang Xiong (Mahler Lab)  
Candace Ma (Kotanen Lab)  
Denny Maranga (Evans Lab)  
Martin Henry (Stinchcombe Lab)
- 16:00 **Break**
- 16:20 **Atwood Family Introduction by Dr. Joel Levine**

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### Atwood Memorial Lecture

- 16:30 **Dr. Tadashi Fukami**  
Plant-pollinator-microbe interactions and some initial efforts toward two-eyed seeing at Stanford's biological preserve
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- 17:30 **Closing Remarks**
- 17:45 **Break**
- 18:30 **Graduate Student & Postdoc Appreciation Night at the Faculty Club**

Dr. Carl Atwood was a respected forest entomologist, ecologist, and naturalist, who taught at the University of Toronto from 1946 to 1972. Each year, the EEB graduate students select a scientist of high distinction whose work embodies Dr. Atwood's dedication to the ecological sciences to give a lecture in his honour. This lecture series is made possible by a generous endowment from the Atwood family.

**Atwood organizing team:** Micah Freedman, Matthew Osmond, Tolulope Babalola, Michelle Su, Mete Yuksel  
**Volunteers:** Irtaqa Arif, Sarah Babaei, Hannah Bodmer, Alan Bui, Garrison Bullard, Erik Curtis, Maia Dall'Acqua, Puneeth Deraje, Sherry Du, Krystyn Forbes, Chloé Guicharnaud, Eric Hagen, Noam Harris, Gigi Hoi, Dylan Kaufman, Gavia Lertzman-Lepofsky, Michelle Liu, Candace Ma, Esme Macpherson, Katie Maunder, Haley Morris, Valmic Mukund, Luna Taguchi, Abigail Turner, Zoe Ungku Fa'iz, Jessie Wang, Wanzhang Wang, Thomas Wildeboer, Zifang Xiong, Gihyun Yoo, Vicki M. Zhang  
**Art & design:** Martin Henry & Youngseo Jeong

# Atwood

Colloquium in Ecology  
and Evolution

April 10th - 12th, 2025  
University of Toronto  
Koffler House



Atwood Lecturer  
**Tadashi Fukami**

Rising Star in Evolution  
**Brandon Ogbunu**

Rising Star in Ecology  
**Kaitlyn Gaynor**



Thursday, April 10

13:00 Opening remarks

*Session I*

13:10 **Dr. Micah Freedman**  
Using chemical fingerprinting to infer host plant use and natal origins of migratory monarch butterflies

13:30 **Dr. Tobit Liyandja (Lujan Lab)**  
Effects of central Amazonian river rapids on genomic diversification in fishes

13:50 **Puneeth Deraje (Osmond Lab)**  
Epigenetics to the (evolutionary) rescue?

14:10 **Michelle Su (Parins-Fukuchi Lab)**  
Intraspecific variation across the phylogeny of fossil *Dendroaster* sand dollars

14:30 **Jaime Grimm (Krkošek Lab)**  
Salmon and sovereignty: Lessons from co-producing research

14:50 **Elevator Talks**  
Sarah Babaei (Lujan Lab)  
Eric Wilson (Wang Lab)  
Yihang Zhao (Cutter Lab)  
Erik Curtis (Krkošek Lab)  
Isaiah Box (Andrade Lab)  
Abigail Turner (Rodd Lab)

15:05 Break

*Session II*

15:25 **Dylan Kaufman (Rollinson Lab)**  
Seasonal variation and survival in spotted salamanders

15:45 **Michelle Liu (Agrawal Lab)**  
Expression divergence in response to sex-biased selection

16:05 **Ellen Nikelski (Weir Lab)**  
Understanding genomic signals of mitonuclear coevolution: A case study in the *Pipra* manakin complex

16:25 **Laini Taylor (Andrade Lab)**  
Invasiveness, mating systems, and plasticity in spiders

16:45 **Gavia Lertzman-Lepofsky (Mahler Lab)**  
Deforestation and elevation interact to shape functional community structure in *Anolis* lizards

17:05 **Elevator Talks**  
Simran Hansra (Rochman Lab)  
Elizabeth Makovec (Sztepanacz Lab)  
Alan Bui (Jackson Lab)  
Chris Carlson (Osmond & Frederickson Labs)  
Grace Walker Mitchell (Gilbert Lab)  
Wanzhang Wang (Rollinson Lab)

17:20 Break

*Keynote: Rising Star in Ecology*

17:40 **Dr. Kaitlyn Gaynor**  
Sharing space on a crowded planet: Spatiotemporal responses of large mammals to human disturbance

18:40 Break

19:00 Social at the Madison Avenue Pub (14 Madison Ave, Toronto)

Friday, April 11

8:30 Breakfast

*Keynote: Rising Star in Evolution*

9:00 **Dr. Brandon Ogbunu**  
A Panorama: Pandemics, Population Genetics, and a Science in Peril

10:00 Break

*Session III*

10:20 **Dr. Marie-Josée Fortin**  
Functional diversity and connectivity to foster forest resilience to global change

10:40 **Francis Nuamah (Rochman Lab)**  
Here today, gone tomorrow: the fate of microplastics in a lake's water column

11:00 **Markelle Morphet (Mandrak Lab)**  
Finding a needle in a haystack: eDNA as a tool to classify agricultural drains based on sensitive species

11:20 **Thomas Wildeboer (Sztepanacz & Parins-Fukuchi Labs)**  
The effect of pleiotropy on extinction risk over macroevolutionary time

11:40 **Vivien Luu (Claramunt Lab)**  
Climate and the lineage diversification of neotropical ovenbirds (*Aves: Furnariidae*)

12:00 **Arielle Rothman (Cutter Lab)**  
From cells to species: Linking sperm gigantism to reproductive morphology across the *Caenorhabditis* phylogeny

12:20 FREED: Field Research in Ecology and Evolution Diversified

12:25 Lunch

