

Tristan Frappier-Brinton

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EDUCATION

- 2021-present PhD in Biology at Duke University with supervisor Dr. Anne Yoder. Thesis work focused on the effects of forest fires on tropical forest and lemur distributions.
- 2019-2021 Master of Science in Evolutionary Anthropology with a collaboration in Environmental Studies at the University of Toronto with supervisor Dr. Shawn Lehman. Thesis titled “The burning island: Spatiotemporal patterns of fire occurrence in Madagascar”
- 2014-2018 Bachelor of Science (Honours) with Distinction in Biology with a Minor in Classical Studies from Queen’s University with a 4.2 GPA (out of 4.3)

PUBLICATIONS

Tristan Frappier-Brinton and Shawn Lehman. (In Review). The burning island: Spatiotemporal patterns of fire occurrence in Madagascar.

Adrián César-Razquin, Berend Snijder, **Tristan Frappier-Brinton**, Ruth Isserlin, Gergely Gyimesi, Anne Phelan, Reinhard R.A. Reithmaier, David Hepworth, Matthias A. Hediger, Aled M. Edwards, and Giulio Superti-Furga. (2015). Solute carriers: time for systematic research on the most neglected human genes. *Cell*, 162, 478-487.

PRESENTATIONS

T. Frappier-Brinton. (2020). Paper Presentation: The burning island: Spatiotemporal patterns of fire occurrence in Madagascar. Canadian Association for Physical Anthropology Conference 2021, virtual.

T. Frappier-Brinton. (2020). Paper Presentation: The effectiveness of different protected area types at reducing forest fire frequency in Madagascar. Canadian Association for Physical Anthropology Conference 2020, virtual.

T. Frappier-Brinton. (2020). Paper Presentation: The effects of forest fires on lemur abundance and distributions. Medusa Graduate Conference 2020, Toronto, ON.

K. DeMarco & **T. Frappier-Brinton**. (2018). Oral Presentation: Tree Swallow Nest Box Monitoring at QUBS. Queen's University Biological Station Open House 2018, Kingston, ON.

T. Frappier-Brinton, M. Harwood, C. Jennings, & S. Ungar. (2017). Poster Presentation: Spread of Ticks and Lyme Disease in Chaffey's Locks. Queen's University Biological Station Open House 2017, Kingston, ON.

RESEARCH EMPLOYMENT HISTORY

- July-Aug 2019 **Research Assistant**, part-time, Structural Genomics Consortium in Toronto
- Extended previous research using Perl programming language and Pubmed database to study trends in kinase research over time
- May-Aug 2018 **Research Assistant**, full-time, Queen’s University in the lab of Dr. Stephen Lougheed

- Spent half of my time in Kingston studying genetic markers in polar bears and variation between populations with the BEARWATCH conservation project
- Spent half of my time in the field conducting tree swallow monitoring, handling, and measurement for individuals in the 200+ nest boxes at the Queen's University Biological Station

May-Aug 2017 **Research Assistant**, full-time, Queen's University in the lab of Dr. Stephen Lougheed

- Work funded by an undergraduate student research award from NSERC, focusing on the genetics of Arctic fishes, with the goal of sequencing the whitefish genome
- Gained experience in laboratory techniques like DNA and RNA extraction from tissues, and field planning and sample collection for two other projects on musk turtle detection and Lyme disease prevalence in ticks at the Queen's University Biological Station

May-Aug 2016 **Research Assistant**, full-time, Sunnybrook Hospital in the lab of Dr. Samira Mubareka

- Planned and conducted viral transmission study in a pig barn outside of Guelph (swine flu) and assisted study of a bat colony at McMaster University (coronaviruses)
- Gained experience in laboratory techniques like RNA extraction, real-time/quantitative PCR and gel electrophoresis

May-Aug 2015 **Research Assistant**, full-time, Structural Genomics Consortium in Toronto

- Studied cancer cell proliferation under Dr. Panagiotis Prinios and Dr. Aled Edwards
- Gained experience with Excel and the image analysis software CellProfiler

July- Aug 2014 **Research Assistant**, full-time, at the University of Toronto with Dr. Aled Edwards

- Studied biology research trends (focusing on kinases and solute carriers) in the bioinformatics lab of Dr. Gary Bader
- Extensive work with Excel and programming in Perl led to Cell publication

TEACHING EMPLOYMENT

Summer 2021 **Teaching Assistant** at the University of Toronto Mississauga in the Department of Anthropology for ANT202 (Biological Anthropology: Human Variation and Adaptation)

2019 - 2021 **Teaching Assistant** at the University of Toronto Scarborough in the Department of Anthropology for ANTB15 (Contemporary Human Evolution and Variation) (Fall 2019, Fall 2020) and ANTC68 (Deconstructing Epidemics) (Spring 2020, Spring 2021)

2019 - 2020 **High School Math and Science Tutor** at an Oxford Learning Centre

2015 – 2016 **Physics Tutor** of first year physics for ASUS Peer Tutoring at Queen's University

HONOURS AND AWARDS (ALL COMPETITIVE) – VALUES IN CAD

2021 NSERC Postgraduate Scholarship – Doctoral (**\$63,000** over 3 years)

2020 Primate Conservation Inc. Research Grant (**\$3,400**)

2020 Ontario Graduate Scholarship (**\$15,000**)

- 2020 Arthur and Sonia Labatt Fellowship from U of T School of the Environment (**\$5,000**)
- 2020 Jeanne F. Goulding Fellowship from University of Toronto (**\$2,000**)
- 2019 NSERC Canada Graduate Scholarship – Master’s Award (**\$17,500**)
- 2018 Kingston Field Naturalists’ Award at the Queen’s University Biological Station (**\$1,500**)
- 2018 NSERC Undergraduate Student Research Award (**\$4,500**)
- 2017 Queen’s University Arthur Loudon Scholarship in Biology – for the highest or 2nd highest GPA in 4th year Biology (**\$3,400**)
- 2017 Queen’s University Marc D. Rigby Scholarship in Classical Studies (2nd time awarded) (**\$1,200**)
- 2017 NSERC Undergraduate Student Research Award (**\$4,500**)
- 2016 Queen’s University Marc D. Rigby Scholarship in Classical Studies (**\$1,200**)
- 2016 Queen’s University Mary McGregor Walker Scholarship (Biology) (**\$1,700**)
- 2016 D + H Sunnybrook Research Institute Summer Student Award (**\$3,200**)
- 2015 Queen’s University Dean’s List with Distinction (Top 3% of Arts and Science Students) (**N/A**)
- 2015 Queen’s University James H. Rattray Scholarship (Biology) (**\$1,000**)