Thomas Tendron

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EDUCATION

- **University of Oxford**, Oxford, UK — September 2020 - August 2024 (expected)
  PhD at the Centre for Doctoral Training (CDT) in Mathematics of Random Systems
  Advisor: Julien Berestycki.
- **McGill University**, Montréal, Canada — January 2019 - June 2020
  M. A. in Mathematics
  Advisors: Louigi Addario-Berry and Jessica Lin.
  B. A. Honours Mathematics, Minor in Computer Science — September 2015 - December 2018
  First Class Honours in Mathematics.

PUBLICATIONS

L. Addario-Berry, J. Lin, T. Tendron, (2021) Barycentric Brownian Bees, *Annals of Applied Probability*, to appear, AAP.

WORK EXPERIENCE AND OTHER PROJECTS

- **Freelance Mathematician and Programmer** — June 2021-
  9 relevant short projects with 5 star reviews by clients. Applications of graph algorithms, probability theory, statistics, and coding in Python, C++ and Javascript to implement solutions to real world problems for engineering companies, start-ups, econometrics researchers, and students in quantitative fields. Clients from the UK, the US, Australia, France, Germany, and Canada.
- **DataSig - Data Preprocessing for Automated Lip Reading based on Landmarks** — May 2021
  Two week project as part of the CDT in Year 1. Normalization of 2D face and lip landmarks for lip-reading task. Improved the testing accuracy of a deep learning model by 3.9% on average. Language: Python.
- **Ericsson - Software Developer Intern** — Summer 2017
  Developed continuous integration pipelines as code to automate the build, testing, SonarQube analysis, test coverage reports, code-review scores and publishing. Technologies used: Jenkins 2, Docker containers, Groovy, Bash, YAML, XML and Java. Pipelines helped teams to adopt CI practices and increased code quality and testing by up to 50%.
- **McGill University Health Center - Software Developer Intern** — Summers 2016 and 2018
  2018: Developed the front-end for a questionnaire system in the Opal app, an application which connects cancer patients with their treatment team. 2016: Developed a web portal to connect cancer patients with their treatment team. Languages: JavaScript, HTML, CSS, Angular, Bootstrap, Firebase Database.

INVITED (I) AND CONTRIBUTED (C) TALKS AND POSTERS

- Title: *A Central Limit Theorem for a Spatial Logistic Branching Process in the Slow Coalescence Regime*. **2022 PIMS-CRM Summer School in Probability - University of British Columbia** - June 23, 2022. (C) **Etheridge Group Seminar - Department of Statistics - University of Oxford**, July 7, 2021. (I) **Spring Retreat - CDT in Mathematics of Random Systems - University of Oxford**, June 10, 2021. (I)
- Poster title: *Barycentric Brownian Bees*. **Workshop: Branching Systems, Reaction-Diffusion Equations and Population Models - CRM Montréal**, May 3, 2022. (C)

TEACHING EXPERIENCE

University of Oxford: Probability on Graphs and Lattices, Applied Probability, Probabilistic Combinatorics.
McGill University: Differential Equations, Calculus, Advanced Probability Theory 1, Honours Probability.

HONOURS AND AWARDS

Research Travel Grant - University College - University of Oxford — March 2022
Oxford-Radcliffe Graduate Scholarship - University College - University of Oxford — 2020-2024
Graduate Excellence Award - Dept of Maths & Stats - McGill University — Winter 2019-Winter 2020
Arts Undergraduate Research Internship Award - McGill University — Summer 2018
HackHarvard Grand Prize, Wolfram Overall Winner - Harvard University — November 2015

LANGUAGES

French (native), English (fluent), Spanish (CEFR B1), Mandarin (CEFR A1).