Thomas Tendron

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Education

University of Oxford, Oxford, UK — September 2020 - August 2024 (expected)
DPhil 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.

McGill University, Montréal, Canada — September 2015 - December 2018
B. A. Honours Mathematics, Minor concentration in Computer Science
Graduation with First Class Honours in Mathematics.

Research interests

Broad interest in probability theory and partial differential equations. Branching processes, reaction-diffusion equations, interacting particle systems, stochastic differential equations, stochastic partial differential equations.

Publications

L. Addario-Berry, J. Lin, T. Tendron, (2020) Barycentric Brownian Bees, *Annals of Applied Probability*, to appear, arxiv:2006.04743.

Invited Talks

Etheridge Group Seminar - Department of Statistics - University of Oxford, July 7th 2021.
Title: A central limit theorem for a class of spatial coalescence-fragmentation processes in the slow coalescence regime.

Seminars attended

Stochastic Analysis Seminar, Imperial College London, London — 2020-2021
Stochastic Analysis and Mathematical Finance, University of Oxford, Oxford — 2020-2021
Northeast Probability Seminar, City University of New York, New York — November 21-22, 2019
Dynamics of Random Systems, Institut des Sciences Mathématiques, Montréal — June 10-14, 2019
Probability Seminar, McGill University, Montréal — Winter 2019, Fall 2019, Winter 2020

Teaching Experience

Ordinary Differential Equations — Winter 2020

Teaching Assistant

Calculus 2 Winter 2019, Fall 2019
Teaching Assistant

- Delivered a two-hour tutorial each week consisting of a brief review of the material covered in class and practice exercises. Class sizes up to ~ 100 students.
- Held weekly office hours.
- Marked quizzes, midterms and final exams.

Advanced Probability Theory 1 Fall 2019
Marker

Honours Probability Fall 2017
Marker

Work Experience and Other Projects

DataSig May 2021
Data preprocessing

Two-week long project as part of the CDT in Year 1. Normalization of 2D face and lip landmarks for lip-reading task. Improved the testing accuracy by 3.9% on average.

McGill University Health Center Summer 2018
Software Developer Intern

Developed the front-end for a questionnaire system in the Opal app, an application which connects cancer patients with their treatment team.

Ericsson Summer 2017
Software Developer Intern

Developed multiple continuous integration pipelines as code to automate the build, unit testing, feature testing, SonarQube analysis, unit and feature tests coverage reports, code-review scores and publishing for both Maven and Gradle based projects.

McGill University Health Center Summer 2016
Software Developer Intern

Developed a web portal to connect cancer patients with their treatment team.

Honours and Awards

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 - Harvard University November 2015
Wolfram Overall Winner - Wolfram November 2015