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# Thomas Tendron

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## EDUCATION

- **University of Oxford**, Oxford, UK September 2020 - June 2024 (expected)  
DPhil at the Centre for Doctoral Training (CDT) in Mathematics of Random Systems.
- **McGill University**, Montréal, Canada January 2019 - June 2020  
M. A. in Mathematics.
- **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, *Barycentric Brownian Bees*, Annals of Applied Probability 2022, Vol. 32, No. 4, 2504-2539. ArXiv.

## WORK EXPERIENCE AND PROJECTS

- **Freelance Mathematician and Programmer** June 2021-  
– 10 short projects with top reviews by engineering companies, start-ups, econometrics researchers, and students in quantitative fields.  
– Graph algorithms, probability theory, statistics, and coding in *Python*, *C++* and *Javascript*.
- **DataSig - Data Pre-processing for Automated Lip Reading based on Landmarks** May 2021  
– Normalisation of 2D face and lip landmarks for lip-reading task in *Python*.  
– Improved the testing accuracy of a deep learning model by 3.9% on average.
- **Ericsson - Software Developer Intern** Summer 2017  
– Automated the build, testing, SonarQube analysis, test coverage reports, code-review scores and publishing. *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 Centre - Software Developer Intern** Summers 2016 and 2018  
– 2018: front-end for a questionnaire system for cancer patients.  
– 2016: website to connect cancer patients with their treatment team.  
– *JavaScript*, *HTML*, *CSS*, *Angular*, *Bootstrap*, *Firebase Database*.

## 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.

## ADDITIONAL TRAINING

- **Kaggle Certificates**: Pandas, Data Cleaning, Data Visualisation, Intro to and Intermediate Machine Learning, Feature Engineering, Time Series, Intro to Deep Learning, Intro to SQL.
- **Languages**: French (native), English (fluent), Spanish (CEFR B1), Mandarin (CEFR A1).

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

- **2022 PIMS-CRM Summer School in Probability**, University of British Columbia, June 23, 2022. (C)
- **Workshop: Branching Systems, Reaction-Diffusion Equations and Population Models** - CRM Montréal, May 3, 2022. (C)
- **Etheridge Group Seminar**, University of Oxford, July 7, 2021. (I)
- **CDT Spring Retreat** - University of Oxford, June 10, 2021. (I)

## 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