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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

- **J.P. Morgan - Quantitative Research Associate - Off-Cycle Internship - London** May 2023-
– Development of a benchmarking library for efficient pricing of OTC derivatives across asset classes.
- **Freelance Mathematician and Programmer - Remote** June 2021-August 2022
– 10 short projects with top reviews by engineering companies, start-ups, econometrics researchers, and students in quantitative fields. Some code at <https://github.com/ThomasTend> (including a personal project for backtesting equity strategies).
– Graph algorithms, probability theory, statistics, and coding in *Python* (main), *C++* and *Javascript*.
- **DataSig - Data Pre-processing for Automated Lip Reading based on Landmarks - Oxford** 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 - Montreal** 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 - Montreal** 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:** Market Microstructure and Algorithmic Trading, Applied Probability, Probabilistic Combinatorics, Probability on Graphs and Lattices.
- **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 (T) AND POSTERS (P)

- **Quebec Analysis and Related Fields Seminar** - Online - January 26, 2023. (I, T)
- **2022 PIMS-CRM Summer School in Probability**, University of British Columbia, June 23, 2022. (C, T)
- **Workshop: Branching Systems, Reaction-Diffusion Equations and Population Models** - CRM Montréal, May 3, 2022. (C, P)
- **Etheridge Group Seminar**, University of Oxford, July 7, 2021. (I, T)
- **CDT Spring Retreat** - University of Oxford, June 10, 2021. (I, T)