Simon Briend

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Research interests _

Statistics, probability theory, random trees, Random graphs, Network archaeology, Graph inference, Data analysis, Information propagation.

| Educ | ation | |
|--|---|---------------------------------------|
| PhD | Université Paris-Saclay and Universitat Pompeu Fabra, Mathematics Supervised by Gábor Lugosi and Christophe Giraud. <i>Inference of the past of random structures and other random problems</i> . pdf ☑ | Sept 2021 – June 2024 |
| MS | Université Paris-Saclay , Mathematics for Artificial Intelligence Master degree with a focus on statistical learning and high dimension statistics | Sept 2019 – July 2021 |
| BS | Université Paris-Saclay , Pure Mathematics Generalist mathematics training, with a focus on Probability and Statistics | Sept 2018 – July 2019 |
| BS | Lycée Thiers, Marseille , Classes préparatoires MP* Generalist scientific training with a strong focus on Mathematics and Physics | Sept 2016 – July 2018 |
| Profe | essional experience | |
| Unidistance , Postdoctoral researcher in the Mathematics and Computer Science department, under the supervision of David Belius | | Sept 2024 – Present Brig, CH |
| SL-Math (MSRI) , Postdoc Fellow in the Probability and Statistics of Discrete Structures program | | Jan 2025 – May 2025 Berkeley, CA |
| Unive | ersitat Pompeu Fabra, Research assistant in the Economics department | Oct 2021 – Sept 2024 Barcelona, ES |
| Unive | ersitat Pompeu Fabra, Research internship, supervised by Gábor Lugosi | May 2021 – July 2021 Barcelona, ES |
| Publi | ications | |

On all publications authors are listed in alphabetical order.

Published

| Estimating the history of a random recursive tree. Simon Briend, Christophe Giraud, Gábor Lugosi, Déborah Sulem, Bernoulli. pdf 🗹 | 2025 |
|--|------|
| Broadcasting in random recursive dags. Simon Briend, Luc Devroye, Gábor Lugosi, ESAIM probability and statistics. pdf 🗹 | 2025 |
| Archaeology of random recursive dags and Cooper-Frieze random networks. Simon Briend, Francisco Calvillo, Gábor Lugosi, Combinatorics, Probability and Computing. pdf 🗹 | 2023 |

Submitted

Leaf Stripping on Uniform Attachment Trees.

2024

| Louigi Addario-Berry, Anna Brandenberger, Simon Briend , Nicolas Broutin, Gábor Lugosi, arXiv:2410.06481. pdf 🗹 | |
|---|-------------------|
| Random Friend Trees. Louigi Addario-Berry, Simon Briend , Luc Devroye, Serte Donderwinkel, Céline Kerriou, Gábor Lugosi, arXiv:2403.20185. pdf ☑ | 2024 |
| On the quality of randomized approximations of Tukey's depth. Simon Briend, Roberto I. Oliveira, Gábor Lugosi, arXiv:2309.05657. pdf ☑ | 2023 |
| Does freezing impede the growth of random recursive trees? Hanna Abigail Cairns, Anna Brandenberger, Simon Briend , Robin Khanfir, Igor Korthchemski, arXiv:2505.16571. pdf ☑ | 2025 |
| Talks and invitations | |
| Invited talk at the Detection, Estimation, and Reconstruction in Networks workshop. SL-Math, Berkeley, US. | May 2025 |
| PSDS seminar at SL-Math, Berkeley, US. | Feb 2025 |
| Contributed talk at the PSYR seminar, Unidistance, Brig, CH. | Nov 2024 |
| Invited talk at the ASCAI workshop, University of Potsdam, DE | Feb 2024 |
| Invited talk at Biennal RSME, Pamplona, ES. | Jan 2024 |
| Invited talk at the SfS-PhD presentations at ETHZ, Zürich, CH. | Nov 2023 |
| Invited talk at the APS conference, Nancy, FR. | June 2023 |
| Invited participant. Bellairs workshop on Probability and Combinatorics, McGill Bellairs institute, Holetown, BB. | 2023, 2024 & 2025 |
| Two month long research visits at McGill university, working with Prof Louigi Addario-Berry, Prof Luc Devroye and Prof Serte Donderwinkel. Montréal, CA. | 2022 & 2023 |
| Two month long research visits at IMPA, working with Prof Roberto Imbuzeiro Oliveira. Rio de Janeiro, BR. | 2022 & 2023 |
| Invited talk at the LIMDA seminar in Universitat Politecnica de Catalunya, Barcelona, ES. | Nov 2022 |
| Invited talk at the department of economics seminar, Universitat Pompeu Fabra, Barcelona, ES | Oct 2022 |
| Contributed talk at the RandNET workshop on random graphs, Eindhoven, NL. | Aug 2022 |
| Teaching | |
| Mentoring role in the preparation of an undergraduate research seminar at Unidistance, Brig, $CH.$ | 2025 |
| Teaching assistant for the undergraduate course Ordinary Differential Equations, Unidistance, Brig, CH. | 2025 |
| Teaching assistant for the undergraduate courses Mathematics II and Real Analysis, Universitat Pompeu Fabra, Barcelona, ES. | 2024 |
| Funding | |
| Centre de Recherche Mathématiques travel grant, funding a research visit to McGill University. | 2023 |
| DimMathInnov PhD grant from Région Île de France. | 2021-2024 |
| Sophie Germain master's scholarship, from the Foundation Mathématiques Jacques Hadamard. | 2019-2021 |

Organization role _____

Founder and organizer of the PSYR seminar at Unidistance, a research seminar geared towards the young researcher community.

2024 - 2025

Technical skills _____

- Python
- R
- Pytorch, Tensorflow

Languages _____

• French and English: C2

Spanish: B1German: A2

Citizenship and work status _____

- French citizen
- B-permit (work authorized)