

Valentin KILIAN

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Work experience

- 2023-Present **PhD Student**, *University of Oxford*, United Kingdom
Under the supervision of F. Caron and B. Guedj, funded by Clarendon Scholarship. My research interests lie in the development of statistical models for the analysis of real-world networks and of Anytime-valid methods for Statistics and Machine Learning. (Expected graduation in March 2028)
- 2024-Present **Lecturer in Mathematics and Statistics**, *Balliol College*, Oxford, United Kingdom
- 2023-Present **Tutor**, Oxford, United Kingdom
Tutor in Statistics for the Department of Statistics. Tutor in Mathematics for Keble College, Tutor in Statistics for the Rhodes Trust, Tutor in Machine Learning for the Oxford Programme for Undergraduate Studies.
- 2022-2024 **Mathematics teacher**, *IPESUP*, Paris, France
Part-time mathematics teacher in business and commercial preparatory classes. Author of maths booklets.
- 2019-2023 **Private Lessons in Mathematics**, France
Preparing undergraduate students for big national mathematics competitions.

Diploma

- 2023 **Master's degree, Mathematics of Randomness**, *Paris-Saclay University*, GPA : 4.00
- 2022 **Master's degree in Mathematics for teaching**, *ENS Rennes*, GPA : 4.00
- 2021 **Bachelor's degree in Physics**, *University Rennes 1*, GPA : 4.00
- 2020 **Bachelor's degree in Pure Mathematics**, *ENS Rennes*, GPA : 4.00

Education

- 2022-2023 **Master (M2) Mathematics of Randomness**, *University Paris-Saclay*, Orsay
- 2019-2023 **Trainee civil servant at the Ecole Normale Supérieure de Rennes**
Ranked 39th at the French national competitive exam for teachers ("agrégation")
- 2016-2019 **Classes préparatoires aux grandes écoles**, *Lycée Louis le Grand*, Paris, *CPGE*
Three-year undergraduate intensive course in mathematics, physics and computer science, preparing a national competitive exam.

Publications

- 2025 **Neurips**, *Anytime-valid, Bayes-assisted, Prediction-Powered Inference*, Valentin Kilian, Stefano Cortinovis, François Caron
- 2025 **Submitted**, *Confidence sequences with informative, bounded-influence priors*, Stefano Cortinovis, Valentin Kilian, François Caron
- 2025 **Submitted**, *Rapidly Varying Completely Random Measures for Modeling Extremely Sparse Networks*, Valentin Kilian, Benjamin Guedj, François Caron
- 2024 **Submitted**, *Enhancing the Power of Gaussian Graphical Model Inference by Modeling the Graph Structure*, Valentin Kilian, Tabea Rebafka and Fanny Villers

Computer skills

Python, R, C++, SQL, OCaml, (Latex, Git).

Languages

French Native

English Fluent