



Positions

- 2025- **Fellowship from the Labex Milyon**, *Université de Lyon, ENS de Lyon*
- 2022-2025 **Postdoctoral research associate**, *University of Warwick*, with Aleksandar Mijatovic, EPSRC grant *Anomalous diffusion via self-interaction and reflection*
- 2021-2022 **Postdoctoral research associate in Mathematical Physics**, *University of Oxford*, with by Jon Keating, ERC grant *Log Correlations and Random Matrices*
- 2018-2021 **PhD in mathematics**, *LPSM, Sorbonne Université*, supervised by Thierry Lévy, Sur les enlacements du mouvement Brownien plan
- 2014 - 2018 **Elève normalien à l'ENS de Lyon**

Visits

- 2026 **visited Yilin Wang**, *ETH Zurich*, one week
- 2025 **Junior Research Fellow of the Erwin Schrödinger Institute**, *University of Vienna* <https://www.esi.ac.at/events/e566/>, two months
- 2024 **Semester Stochastic systems for anomalous diffusion**, *Isaac Newton Institute*, three months
- 2023 **visited Nathanaël Berestycki**, *University of Vienna*, two months

Fundings

- 2025 **Fellowship from the Labex MiLyon**
- 2025 **Junior Research Fellow of the Erwin Schrödinger Institute**, *Financed a two months visit to the university of Vienna*
- 2024 **Isaac Newton Institute for mathematical sciences (Cambridge)**, *Financed a total of three months of visiting time at the INI (over a period of six months)*
- 2018 **Contrat Doctoral Spécifique Normalien**, *PhD grant from the ENS de Lyon*

Publications

- 2025 **(With A. Mijatovic et A. Wade) Central limit theorem for superdiffusive reflected Brownian motion**, *ArXiv : 2412.14267*, To be published in *Annals of Applied Probability*
- 2024 **(With P. Perruchaud) Loop soup representation of zeta-regularised determinants and equivariant Symanzik identities**, *ArXiv : 2402.00767*, *Annals of Probability* [published version](#)
- 2024 **Homotopy and holonomy of the planar Brownian motion in a Poisson punctured plane**, *Communications in Mathematical Physics*
- 2022 **(With J. Forkel) Convergence of the logarithm of the characteristic polynomial of unitary Brownian motion in Sobolev space**, *ArXiv : 2211.02034*, *Journal of Physics A : Mathematical and Theoretical*

- 2021 **Planar Brownian motion winds evenly along its trajectory**, *ALEA (Latin American Journal of Probability and Mathematical Statistics)*,
- 2021 **Lévy area without approximations**, *ArXiv : 2101.03992*, *Annales de l'Institut Henri Poincaré (B)*

Preprints

- 2026 (With A. Mijatović et A. Pilipenko) **Functional central limit theorem for superdiffusive SDEs with stable noise** , *ArXiv : 2602.20607*
- 2026 (With N. Berestycki) **Brownian paths as loop-decorated SLEs**, *ArXiv : 2602.04673*
- 2025 **Renormalised Amperean Area of Brownian Motions and Symanzik Representation of the 2D Abelian Yang–Mills–Higgs Field** , *ArXiv : 2412.16781*
- 2023 **Brownian windings, Stochastic Green's formula and inhomogeneous magnetic impurities**, *ArXiv : 2301.00551*
- 2021 **Winding and intersection of Brownian motions**, *ArXiv : 2112.01645*
- 2021 **Integration and stochastic integration in Gaussian multiplicative chaos**, *ArXiv : 2105.01232*

Seminars

- 2026 **TBA**, *Mathematical institute, University of Oxford*
- 2026 **Applying Symanzik' program to the Abelian Higgs-Yang-Mills field in the continuum** , *ETH Zurich*, Seminar on stochastic processes
- 2026 **Programme de Symanzik pour le champ de Higgs-Yang-Mills abélien dans le continu**, *LPSM, Paris*, Les Probas du vendredi
- 2025 **How to construct a planar Brownian motion from simple path and loops**, *Institut de Mathématique de Marseille*, Séminaire d'équipe
- 2025 **How to build a planar Brownian motion from a simple path and loops**, *Institut de mathématiques de Toulouse* , Séminaire de probabilités
- 2025 **Symanzik loop methods in Euclidean QFT**, *Informal seminar, University of Vienna*
- 2025 **Stochastic calculus for EQFT**, *University of Durham*
- 2024 **Central limit theorem for superdiffusive processes**, *Isaac Newton institute, Cambridge*
- 2024 **Geometric formulas and Amperean area for planar Brownian loops**, *University of Warwick*
- 2024 **Décomposition du mouvement brownien plan**, *Séminaire de probabilités et statistique, Université d'Angers*
- 2023 **Stochastic formulas for determinants of Laplacians**, *Vienna Probability Seminar, Wien Universität*
- 2023 **Twisted Gaussian free Fields, stochastic Yang-Mills Fields and Brownian windings**, *Statistical Mechanics seminar, Warwick University*
- 2023 **Impuretés magnétiques inhomogènes, enlacements browniens et SLE(2)**, *Séminaire du LPTMS, Université d'Orsay*
- 2022 **Unitary Brownian motion, 2D log-correlated fields and loop soups** , *Random matrix seminar, University of Oxford*
- 2022 **Brownian winding, Green's formula, and Cauchy rough path**, *Probability and statistics Seminar, University of Luxembourg*

- 2022 **Brownian winding and magnetic impurities**, *Probability Seminar, University of Sussex*
- 2021 **Brownian winding**, Oxford Stochastic analysis and mathematical finance Seminar
- 2020 **Covariant Young integration**, *LPSM, Séminaire des thésards*
- 2019 **Geometric aspects of the rough paths theory**, *LPSM, Reading group on rough path theory*
- 2019 **Windings of Brownian motion**, *LPSM, Séminaire des thésards*
- 2019 **Enlacement des courbes browniennes**, *Université de Rennes, Séminaire Gaussbusters*
- 2018 **Quantum Gaussian processes**, *LPSM, Reading group on non-commutative rough paths*

Conferences

- 2023 **Some conjectures related to the stochastic quantization of Yang–Mills theory coupled with matter**, *Sussex, Workshop on Random matrix theory in Probability and Mathematical Physics*
- 2023 **Brownian motion drifted by random vector Fields**, *Lisbon, 43rd Conference on Stochastic Processes and their Applications*
- 2023 **CLT for reflecting Brownian motion in generalized parabolic domains**, *Roscoff, 40 years of reflected Brownian motion and related topics*
- 2022 **Magnetic impurities and a random rough path extension for the Brownian motion**, *Berlin, 15th Oxford-Berlin Young researchers meeting on applied stochastic analysis*
- 2021 **Unitary matrices under a Brownian dynamics at equilibrium**, (*Online*), XVII Brunel-Bielefeld workshop on random matrix theory and applications
- 2021 **Lévy area without approximation**, (*Online*), 14th Oxford-Berlin Young researchers meeting on applied stochastic analysis

Teaching

- 2022 **Supervised summer project**, University of Oxford
- 2021 **Functional analysis**, *3rd year of bachelor degree, 36h, Sorbonne Université*
- 2020 **Topology and differential calculus**, *2nd year, 72h, Sorbonne Université*
- 2019 **Linear algebra**, *2nd year, 36h, Sorbonne Université*
- Series, integrales, ODE**, *2nd year, 36h, Sorbonne Université*
- 2015-2019 **Examinator for mock exam organised by the school (voluntary work)**, *CPGE MP/PC, 6 jours, Lycée Blaise Pascal, Clermont-Ferrand*