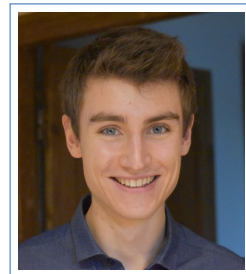


Maxence Petit

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Profile

Working as a PhD student since september 2023 in the intersection between analysis and probabilities, I am working on the Martin boundary of some stochastic processes at Sorbonne University. Enthusiastic about my studies, my dream is to become a mathematics teacher in higher education while doing reasearch on analytic and probabilistic domains, or to become a mathematics teacher in a french "classe préparatoire". Discreet but very attentive, I like to spread my enthusiasm of mathematics and I try to contribute to the success of students.

Diplomas - competitions

- June 2023 **Master in Mathematics**, *Sorbonne Université*, with honours
- July 2022 **Admission to the Mathematics competition of "Agregation"**, *Rank : 29*
- July 2020 **Normalien civil servant status (ENS Rennes)**, *Concours cycle master*
- June 2020 **Licence in Mathematics**, *Université de Rennes 1*, with Honours
- June 2016 **Scientific Baccalaureate**, *Lycée Sainte Claire, Lille*, with honours

Studies

- 2023 - ... **PhD - Study of transients stochastic processes and Martin boundary, an analytical approach**, *Supervised by Irina Kourkova and Sandro Franceschi, Sorbonne Université*
- 2022 - 2023 **Master 2 of Probabilities et Random Models**, *Sorbonne Université, Paris*, with honours
- 2019 - 2022 **L3 - M1 of fundamental mathematics - M2 of teaching (Preparing Agregation)**, *Ecole Normale Supérieure, Rennes*, with honours for each year
- 2016 - 2019 **"Classe prépa" MPSI - MP (Equivalence L1-L2 to prepare for engeneering school recrutement competitions)**, *Châtelet, Douai*, with honours

Experiences

- April 2023 **Poster : Reflected Brownian motion, transient case and asymptotics of Green functions**, *Conference - 40 years of reflected Brownian motion and related topics, Roscoff*
- 2022-2023 **2h/week of mathematics oral interrogations in MP2I (eq L1)**, *Lycée Paul Valery, Paris*
- May - June 2021 **Research intership in mathematics (in distance) - Study of linear dynamical systems**, *UPV Universitat Politècnica de València, Valence*, supervised by Alfred Peris
- Mai - Juin 2021 **6h of mathematics oral interrogations in MP (eq L2) to prepare for engeneering school recrutement competitions**, *Lycée Albert Châtelet, Douai*
- May 2020 **Research intership in mathematics (in distance) - Study of equiditribution sequences modulo 1 and work on the caracterisation of equidistribution modulo 1 for random sequences**, *Laboratoire Paul Painlevé, Villeneuve d'Ascq*, supervised by Sophie Grivaux
- Juillet 2017 **Bank assistant job for real estate, CIC**, *Lille*

Languages, skills, hobbies

- French Native language
- Anglais Good level
- Informatics Bases in Python and LaTeX
- Hobbies Clarinet, piano, jogging, table tennis, cooking
- Permis B Obtained in 2016