

Keenan Penner

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Highly motivated bilingual Mathematics PhD seeking an entry-level industry position to apply advanced analytical, statistical, and problem-solving expertise to complex, data-driven challenges.

EDUCATION

Université du Littoral Côte d'Opale Calais, France

Ph.D. in Mathematics Oct. 2022 – July 2025

- Conducted research on IDLA, a stochastic growth model
- Authored and published research articles in probability theory in leading journals including Electronic Journal of Probability, with additional work under review at Probability Theory and Related Fields (available on arXiv)
- Developed and ran large computer simulations on University clusters in Python for visualization of the model
- Developed a Python-based graphical user interface using Tkinter to streamline model simulations and analysis
- Presented research findings at various and invited seminars
- Attended a weekly Probability and Statistics seminar, as well as a workshop on spatial Point Processes at the University of Lille

Sorbonne Université Paris, France

MSc. Probability and Random Models Sept. 2021 – Sept. 2022

- Relevant courses: stochastic calculus & SDEs, statistical learning, random walks, determinantal point processes, concentration inequalities, Poisson processes & applications to biology

Université Paris Diderot Paris, France

MSc. Fundamental and Applied Mathematics Sept. 2020 – June 2021

- Relevant courses: advanced algebra, advanced calculus, advanced probability, PDEs & spectral theory, Bayesian statistics & tests, financial mathematics

Université Paris Diderot Paris, France

BSc. Fundamental and Applied Mathematics Sept. 2019 – June 2020

- Relevant courses: algebra, calculus, probability & statistics, differential equations, Fourier series

Lycée Pasteur Neuilly-sur-Seine, France

Classes Préparatoires aux Grandes Écoles Sept. 2017 – Aug. 2019

- Two-year intensive post-baccalauréat program preparing for competitive entrance exams to France's top engineering and business schools (Grandes Écoles)
- Relevant courses: mathematics, physics, chemistry, computer science (Python, SQL)

Lycée International de Saint Germain en Laye Saint Germain en Laye, France

OIB (Option Internationale du Baccalauréat), Série: Scientifique, Mention Très Bien Sept. 2003 – Jul. 2017

EXPERIENCE

Private Tutor Sept. 2020 – Present

Self-employed Paris, France

- Tutor for middle school and high school students in mathematics, physics and chemistry

Teaching Assistant Sept. 2023 – June 2025

Université du Littoral Côte d'Opale Calais, France

- Conducted a weekly lecture in Calculus for Bachelor students (50 students over two years); graded weekly quizzes; designed, authored and graded the final exam
- Led a tutorial session to introduce Bachelor students to programming in R (100 students over two years); taught the students to use Rstudio for statistical visualization, such as illustrations of LLN, CLT, or Monte-Carlo Methods

Research Intern May 2022 – Sept. 2022

Laboratoire de Probabilités, Statistiques et Modélisation Paris, France

- Conducted academic research on Concentration Inequality theory under the supervision of Anna Ben-Hamou
- Thesis titled *Concentration inequalities for U-statistics*, Final grade 18/20 (GPA: 4.0)

SKILLS

Technical skills: Python (pandas, NumPy, Matplotlib, Scikit-learn), R, C++, LaTeX, Git, HTML/CSS

Languages: English (Native), French (Native), German (Professional Working Proficiency), Russian (Working Knowledge)