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Clément Lamoureux

Employment

2025-present **ATER (Temporary Research and Teaching Assistant)**, *LAREMA*, Université d'Angers, Angers

Education

2022-2025 **PhD in Mathematics**, *LAREMA*, Angers, *"Extinction partielle et conservativité pour les processus de branchement multitypes"*
Advised by Loïc Chaumont. Thesis defended in December 2025. PhD reviewers: Xinxin Chen and Clément Foucart

2020-2022 **Master**, *Angers*, Master de recherche en mathématiques parcours Analyse Probabilités

2017-2020 **Licence**, *Angers*

Research interests

1. **General mathematical fields:** Probability theory, stochastic processes, branching processes.
2. **Main objects of study:** Lévy processes, Continuous-state branching processes, stochastic differential equations, conservativity of Markov processes.

Skills

Programming Python, Git
Tools LaTeX
Languages French (native), English (professional and scientific)

Publications

2026 **Explosion speed of continuous-state branching processes indexed by the Esscher transform**, *Electronic Journal of Probability, Vol. 31*, with Loïc Chaumont

Submitted

2026 **On conservativity of multitype continuous-state branching processes**, with Loïc Chaumont

In progress

2025 **Partial extinction times in continuous-state multitype branching processes**, with Loïc Chaumont and Weerapat Satitkanitkul

Talks given

2025 **Conference "Branching and Persistence"**, *Université d'Angers*, Angers, "Explosion of Continuous-state Branching Processes"

2025 **Séminaire "Landau"** , *Université de Rennes*, Rennes, "Explosion des CSBP indexés par la transformée d'Esscher"

2025 **Séminaire des Doctorants**, *Université d'Angers*, Angers, "Processus de Lévy et Processus de Branchement continus"

2023 **Séminaire des Doctorants**, *Université d'Angers*, Angers, "Séminaire branché"

Organization of scientific events

2024 **Rencontres doctorales du Centre Henri Lebesgue**, *Angers*, Conference for PhD students

Conferences and research schools attended

2025 **Journées des Probabilités**, *Marseille*, Conference

2025 **Branching and Persistence**, *Angers*, Conference

2023 **Journées de Probabilités**, *Angers*, Conference

2023 **Branching Processes and their Applications**, *Angers*, Conference

2023 **Conférence du GdR Branchement**, *Toulouse*, Conference

Workshops attended

2025 **Branching and Persistence**, *Université d'Angers*, Angers

2024 **Lancement de l'ANR RAWABRANCH**, *Université d'Angers*, Angers

Teaching Experience

2022–2026 **University of Angers**

- **Analyse élémentaire** (L1): Limits, continuity, differentiation, integration, and fundamental results of single-variable calculus.
- **Mathématiques pour les SVT** (L1): Mathematical tools for Life and Earth Sciences: elementary calculus, functions.
- **Fondements d'analyse** (L1): Taylor expansions, parametric curves, and linear differential equations.
- **Méthodes mathématiques pour l'ingénieur** (L2): Differential equations, linear algebra techniques, integral calculus.
- **Suites et séries de fonctions** (L2): Pointwise and uniform convergence, continuity and differentiation of function sequences and series.
- **Séries entières** (L2): Convergence of power series, Taylor expansions, and analytic functions.
- **Théorie de Lebesgue** (L3): Measure theory, Lebesgue integration, and fundamental convergence theorems.
- **Groupe** (L3): Introduction to group theory.
- **Statistiques inférentielles** (L3): Introduction to statistics.

2019–2020 **University of Angers**

- **Tutorat en mathématiques pour les SVT** (Mathematical tutoring for Life and Earth Sciences): derivatives, antiderivatives, and linear differential equations.

2019–2020 **Lycée Mongazon, Angers**

- **Préparation au concours post-bac ACCÈS**: Mathematics training for competitive entrance exams. Focus on calculus (derivatives, integrals), functions, probability.

References

Loïc Chaumont (PhD advisor)
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Clément Foucart (PhD reviewer)
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