Dr. Thomas Lehéricy

Researcher in Probability Theory

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Positions

2021 –   **Postdoc**, *in Prof. Dr. Ashkan Nikeghbali's team*, Institut für Mathematik, Universität Zürich

2019 – 2021   **Postdoc**, *in Prof. Dr. Jean Bertoin's team*, Institut für Mathematik, Universität Zürich

2016 – 2019   **PhD**, *under the supervision of Jean-François Le Gall*, Laboratoire de Mathématiques d'Orsay, Université Paris-Saclay
Separating cycles, isoperimetry and modification of distances in large random planar maps. Defended December 4, 2019.

Publications

Published

2019   **Separating cycles and isoperimetric inequalities in the Uniform Infinite Planar Quadrangulation**, *with Jean-François Le Gall*
Ann. Probab., 47(3) :1498–1540.

Accepted

2019   **First-passage percolation in random planar maps and Tutte's bijection**
Accepted in Electron. J. Probab.

2019   **Recurrence of the Uniform Infinite Half-Plane Map via duality of resistances**, *with Thomas Budzinski*
Accepted in Ann. Probab.

Preprints

2021   **Uniform mixing time and bottlenecks in uniform finite quadrangulations**

2022   **Random cubic planar graphs converge to the Brownian sphere**, *with M. Albenque and É. Fusy*

Talks

2022

may 18   **Pure Mathematics seminar**, *Lancaster University*

2021

mar 9   **Séminaire virtuel Paris-Nord**, *LAGA, Université Paris 13*

2020

oct 20   **"What is..." Kolloquium**, *Universität Zürich and ETH Zürich*

2019

oct 24   **PhDs and postdocs seminar**, *Universität Zürich and ETH Zürich*

oct 9   **Stochastic Processes seminar**, *Universität Zürich and ETH Zürich*

2018

nov 26   **Journées cartes**, ÉNS Ulm, Paris, France

oct 2   **Séminaire du master Mathématiques de l'Aléatoire**, *LMO*, Orsay, France

june 28   **Journées de Probabilités**, Tours, France

may 24	**Journée des doctorants de l'équipe de probabilités-statistiques**, *LMO*, Orsay, France
may 17	**Colloque Jeunes Probabilistes et Statisticiens**, Saint-Pierre d'Oléron, France
may 2	**Les Probabilités de Demain**, *IHP*, Paris, France
	2017
nov 24	**Séminaire de vulgarisation des doctorants d'Orsay**, *LMO*, Orsay, France
nov 20	**Groupe de travail des thésards du LPMA**, *LPSM*, Paris, France
oct 16–20	**Oberwolfach Seminar : Scaling Limits of Random Planar Maps and Liouville Quantum Gravity**, *MFO*, Oberwolfach, Allemagne

Responsibilities

spring 2022	**Co-supervisor of two master theses**, *with Prof. Dr. Ashkan Nikeghbali* Florin Zahiri ; Tamara Kueng.
spring 2021	**Supervisor of Simon Egli's master thesis** Large Deviation Theory and Applications
spring 2021	**Co-supervisor of Aleksey Nekrasov's master thesis**, *with Prof. Dr. Jean Bertoin* Recursive Equations of Kesten
fall 2019	**Main assistant for the class "Linear algebra for natural sciences"**, *Universität Zürich* Coordinating twelve teaching assistants, in addition to teaching duties.
2016 – 2018	**Organiser of the seminar of the master Mathématiques de l'Aléatoire**, *université Paris-Sud*, Orsay Seminar for M2 students, to present current research topics in an accessible way.

Education

2012 – 2016	**Student in École normale supérieure**, Paris Mathematics and physics bachelors, both with highest honors, followed by master in mathematics with highest honors.
2015	**M2 Probability and Applications, specialty Probability and random models**, *Paris 6* With highest honors. Master thesis with Bartłomiej Błaszczyszyn.
2012	**Admitted to École normale supérieure** Concours MPI, rank 2 in Paris, rank 1 in Lyon and Cachan.
2010 – 2012	**Classe préparatoires MPSI – MP***, *Lycée Hoche*, Versailles
2010	**French-german baccalaureate**, *Lycée franco-allemand*, Buc Série S, with highest honors.
2010	**Concours général** Third place in mathematics, mention in physics.

Teaching and outreach

2019 –	**Teaching at Universität Zürich** Lecturer for : Analysis for chemistry ; Foundations of Mathematics ; Large deviation (master level). Teaching assistant for : Probability for natural sciences ; Generative models for machine learning.
2016 – 2019	**Teaching at Université Paris-Saclay** Teaching assistant in probability and statistics, 64h/year during three years.
2017, 2018	**Activity leader for the fête de la Science**, *Laboratoire de Mathématiques d'Orsay*
2018	**Help with the organization of congrès Math en Jeans** Math en Jeans is an association aiming at making high school students discover research in mathematics. Students present their work during the congress.
2014 – 2018	**Talks in club Parimath**, ÉNS Ulm Math club for high school students.
2014	**Supervising a team of high school students before and during the TFJM²**, (Tournoi Français des jeunes mathématiciennes et mathématiciens)

Languages

English	C1
French	C2 (mother tongue)
German	C1

Other activities

2016	**Debating tournaments in french**, http ://www.ffdebat.org/
	Semi-finalist in the french-speaking debating world championships, semi-finalist with the École Normale Supérieure team in the french debating federation's tournament.
2015	**Debating tournament in english**, http ://www.frenchdebatingassociation.fr/
	Semi-finalist with the École Normale Supérieure team during the french debating association's tournament.