

### Employment

2022 – present **Postdoctoral researcher**, *University of Luxembourg*

### Education

2019 – 2022 **Ph.D. in Mathematics**, *IMJ-PRG, Paris Cité University*

2018 – 2019 **M.Sc. in Fundamental Mathematics**, *Sorbonne University*

2015 – 2019 **Ingénieur Polytechnicien Program**, *École polytechnique*

2011 – 2015 **B.Sc. (Hons) in Mathematical Science**, *Hong Kong Baptist University*

### (Pre)Publications

April 2024 *Word-length curve counting on the once-punctured torus*,  
with DAVID FISAC, eprint arXiv:2404.09372

December 2023 *Random surfaces with large systoles*,  
with BRAM PETRI, eprint arXiv:2312.11428

December 2023 *Length spectrum of large genus random metric maps*,  
with SIMON BARAZER and ALESSANDRO GIACCHETTO,  
eprint arXiv:2312.10517

November 2023 *Low-lying geodesics on the modular surface and necklaces*,  
with ARA BASMAJIAN, eprint arXiv:2311.16041

February 2022 *Length partition of random multicurves on large genus hyperbolic surfaces*,  
with VINCENT DELECROIX, accepted for publication in JEMS,  
eprint arXiv:2202.10255

December 2019 *Length statistics of random multicurves on closed hyperbolic surfaces*,  
eprint arXiv:1912.11155, *Groups Geom. Dyn.* 16 (2022), no. 2, pp. 437–459

### Teaching

January 2024 **Weil–Peterson random hyperbolic surfaces** for PhD students,  
*University of Rennes*

September 2023 **Analysis for applications** for first-year students in Computer Science,  
present *University of Luxembourg*

February 2023 **Analysis and applications 2** for first-year students in Physics,  
June 2023 *University of Luxembourg*

- September 2022 **Math Forge** for first-year students,  
December 2022 *University of Luxembourg*
- January 2022 **Introduction to programming 2** for first-year students in Computer Science,  
May 2022 *Paris Cité University*
- September 2021 **Interaction between Mathematics and Physics** for first-year students,  
December 2021 *Paris Cité University*
- September 2021 **Elementary Mathematics** for first-year students,  
December 2021 *Paris Cité University*
- January 2021 **Oral exam** for second-year students in Mathematics,  
May 2021 *Paris Cité University*
- September 2020 **Probabilities** for second-year students in Mathematics,  
December 2020 *Paris Cité University*
- January 2020 **Mathematics Projects** for first-year students in Computer Science,  
May 2020 *Paris Cité University*
- January 2020 **Oral exam** for second-year students in Mathematics,  
May 2020 *Paris Cité University*
- September 2019 **Elementary Mathematics** for first-year students in Physics,  
December 2019 *Paris Cité University*

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## Supervision

- March 2024 Master student project, *University of Luxembourg*.  
present
- September 2023 Experimental Mathematics Lab project, *University of Luxembourg*.  
January 2024
- February 2023 Bachelor thesis, *University of Luxembourg*.  
June 2023

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## Talks

- November 2024 **Random hyperbolic surfaces and random graphs**, *CIRM*, Marseille, France
- September 2024 **Riemann Surfaces: Random, Flat, and Hyperbolic Geometry**, *MFO*,  
Oberwolfach, Germany
- July 2024 **AMS-UMI International Joint Meeting**, *University of Palermo*, Palermo,  
Italy
- June 2024 **Workshop on Stochastic Geometry and Point Processes**, *Ruhr University  
Bochum*, Bochum, Germany
- April 2024 **Séminaire Analyse**, *University of Strasbourg*, Strasbourg, France
- March 2024 **Séminaire de Théorie Ergodique et Systèmes Dynamiques**, *Sorbonne  
Paris North University*, Paris, France
- November 2023 **Séminaire Compréhensible**, *University of Grenoble*, Grenoble, France
- July 2023 **Geometry & Topology Seminar**, *ShanghaiTech University*, Shanghai, China

- April 2023 **Work in Progress seminar in probability**, *University of Luxembourg*, Esch-sur-Alzette, Luxembourg
- January 2023 **Séminaire de théorie ergodique**, *University of Rennes*, Rennes, France
- January 2023 **Séminaire Gaston Darboux**, *University of Montpellier*, Montpellier, France
- November 2022 **Geometry and Topology Seminar**, *University of Bristol*, Bristol, UK
- October 2022 **Séminaire de géométrie différentielle**, *University of Lorraine*, Nancy, France
- September 2022 **Colloque de Géométrie**, *Paris-East Créteil University*, Créteil, France
- May 2022 **Conference Structures on Surfaces**, *CIRM*, Marseille, France
- April 2022 **Workshop on Quantum Geometry**, *IHES*, Bures-sur-Yvette, France
- April 2022 **Séminaire Plat**, *Institut Henri Poincaré*, Paris, France
- February 2022 **Séminaire des Thésards**, *IMJ-PRG*, Paris, France
- February 2022 **Séminaire Géométrie et Topologie**, *IMJ-PRG*, Paris, France
- October 2020 **Rencontre Surfaces Aléatoires**, *University of Bordeaux*, Bordeaux, France

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## Conferences

- November 2024 **Random hyperbolic surfaces and random graphs**, *CIRM*, Marseille, France
- September 2024 **Riemann Surfaces: Random, Flat, and Hyperbolic Geometry**, *MFO*, Oberwolfach, Germany
- July 2024 **AMS-UMI International Joint Meeting**, *University of Palermo*, Palermo, Italy
- June 2024 **Workshop on Stochastic Geometry and Point Processes**, *Ruhr University Bochum*, Bochum, Germany
- March 2024 **School on flat surfaces and interactions**, Le Teich, France
- January 2024 **Sage Days 125: combinatorics, number theory, dynamical systems and geometry**, Le Teich, France
- December 2023 **Renormalization and Visualization in Geometry, Dynamics and Number Theory**, *CIRM*, Marseille, France
- November 2023 **GDR Platon : Paroles aux jeunes chercheuses et chercheurs en géométrie et dynamique**, *University of Grenoble*, Grenoble, France
- October 2023 **Probability and Geometry in, on and of non-Euclidian spaces**, *CIRM*, Marseille, France
- July 2023 **IMJ-PRG Summer School: Microlocal and probabilistic methods in geometry and dynamics**, *IMJ-PRG*, Paris, France
- May 2023 **Groups and Dynamics in Geometry: Celebrating the mathematics of Ursula Hamenstädt**, Monte Verità, Ascona, Switzerland
- March 2023 **Random Geometry in Math & Physics**, *Radboud University*, Nijmegen, Netherlands
- March 2023 **École de Printemps en Géométrie et Dynamique**, Lille, France

- March 2023 **Geometry, Probability and their Synergies Workshop**,  
Les Diablerets, Switzerland
- November 2022 **GDR Platon : Paroles aux jeunes chercheuses et chercheurs en géométrie et dynamique**, *Paris-Saclay University*, Orsay, France
- October 2022 **Random walks and related random topics**,  
*University of Göttingen*, Göttingen, Germany
- September 2022 **Combinatorics, Dynamics and Geometry on Moduli Spaces**,  
*CIRM*, Marseille, France
- September 2022 **TR Salento 2022**, Otranto, Italy
- July 2022 **Journées Nancéiennes de Géométrie**, *University of Lorraine*, Nancy, France
- May 2022 **Structures on Surfaces**, *CIRM*, Marseille, France
- April 2022 **Workshop on Quantum Geometry**, *IHES*, Bures-sur-Yvette, France
- April 2022 **Mini-rencontre ANR MoDiff**, *University of Bordeaux*, Bordeaux, France
- January 2022 **Billards**, Autrans, France
- September 2021 **Counting problems**, Ventotene, Italy
- October 2020 **Rencontre Surfaces Aléatoires**, *University of Bordeaux*, Bordeaux, France
- September 2019 **Summer School Around Moduli Spaces**,  
*Saarland University*, Saarbrücken, Germany
- June 2019 **Rencontre Surfaces Plates**, *University of Bordeaux*, Bordeaux, France
- June 2019 **New Perspectives in Gromov–Witten Theory** *IMJ-PRG*, Paris, France
- January 2019 **Thematic Month: Complex Geometry** *CIRM*, Marseille, France

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## Organization

- 2024 Co-organiser of the workshop “Surfaces, Manifolds and Related Topics”  
at the University of Luxembourg
- 2023 – present Co-organiser of the Geometry and Topology seminar  
at the University of Luxembourg

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## Administration

- 2019 – 2022 Member of the *Bureau des Doctorants* at the IMJ-PRG
- 2019 – 2022 Member of the *Laboratory Council* at the IMJ-PRG

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## Languages

- Chinese Native speaker
- English Fluent
- French Fluent