

Research positions

- 2015– **Chargé de recherche CNRS** at Laboratoire d'Informatique de l'École polytechnique, Palaiseau
2012–2015 **Chargé de recherche CNRS** at Institut Élie Cartan de Lorraine, Nancy
2011–2012 **Post-doctoral fellow** at MSRI, Berkeley
2009–2011 **Ph.D. student** at Orsay (Université Paris Sud)

Teaching positions

- 2018– **Professeur chargé de cours à temps partiel** at Département de mathématiques de l'École polytechnique
2017–2018 **Maitre de conférence à temps partiel** at Département de mathématiques de l'École polytechnique
2016–2017 **Chargé d'enseignement** at Département d'Informatique de l'École polytechnique
2015–2016 **Non permanent teaching position** at Département d'Informatique de l'École polytechnique, Palaiseau
2012–2015 **Non permanent teaching position** at Université de Lorraine, Nancy

Community roles

- 2025– **Member of PÉDI (Parité Équité Diversité Inclusion)** comity of GDR IFM
2023– **"Combi" team leader** of Laboratoire d'Informatique de l'École polytechnique
2023– **Référent égalité Femmes–Hommes** at École polytechnique

Education

- 2022 **Habilitation à diriger des recherches** (École polytechnique, Palaiseau)
Title. Limite d'échelle et combinatoire bijective de cartes
Referees. Mireille Bousquet-Mélou, Philippe Chassaing, and Jean-François Le Gall
Defense. June 07, 2022, at École polytechnique
Jury. Frédérique Bassino (president), Mireille Bousquet-Mélou, Philippe Chassaing, Bénédicte Haas, Jean-François Le Gall, Jean-François Marckert, Sylvie Méléard, and Gilles Schaeffer
- 2011–2012 **Post-doctoral fellowship: Random Spatial Processes** (MSRI, Berkeley)
- 2008–2011 **Ph.D.** supervised by Grégory Miermont (DMA de l'ENS then Université Paris Sud)
Title. Scaling Limit of Arbitrary Genus Random Maps
Referees. Omer Angel and Jean-François Marckert
Defense. October 26, 2011, at Université Paris Sud, mention *Très Honorable*
Jury. Jérémie Bouttier, Jean-François Le Gall, Jean-François Marckert, Grégory Miermont, Gilles Schaeffer, and Marc Yor (president)
- 2006–2007 **French teacher employment competitive exam: Agrégation** rank 25
- 2005–2009 **Studies at École Normale Supérieure** (Paris)

Distinction

- 2013 **Ph.D. award from Fondation Mathématiques Jacques Hadamard**

Publications and preprints

- [18] **Link between bipartite and general unicellular toroidal maps via slit–slide–sew bijections**
with **Dimitri Korkotashvili**.
(2026) hal-05534712, arXiv:2603.02179
- [17] **Slit-slide-sew bijections for oriented planar maps**
with **Éric Fusy, Baptiste Louf**.
Combinatorial Theory, to appear (2026) hal-04850279, arXiv:2412.14120
- [16] **Slit-slide-sew bijections for constellations and quasiconstellations**
with **Dimitri Korkotashvili**.
European Journal of Combinatorics, **133**, 1–19 (2026)
Short version: *FPSAC 2024. Séminaire Lotharingien de Combinatoire*, **91B**, Art. 90, 1–12 (2024)
- [15] **Compact Brownian surfaces II. Orientable surfaces**
with **Grégory Miermont**.
Memoirs of the European Mathematical Society, **27**, 1–135 (2026)
- [14] **Scaling limit of random plane quadrangulations with a simple boundary, via restriction**
with **Nicolas Curien, Luis Fredes, Avélio Sepúlveda**.
Annales de l'Institut Henri Poincaré (B), **61**, 213–231 (2025)
- [13] **A bijection for nonorientable general maps**
Annales de l'Institut Henri Poincaré (D), **9(4)**, 733–791 (2022)
Short version: *FPSAC 2016. Discrete Math. Theor. Comput. Sci. Proc.*, **BC**, 227–238 (2016)
- [12] **Slit-slide-sew bijections for bipartite and quasibipartite plane maps**
Electronic Journal of Combinatorics, **27(3)**, P3.4, 1–23 (2020)
Short version: *FPSAC 2019. Séminaire Lotharingien de Combinatoire*, **82B**, Art. 82, 1–12 (2019)
- [11] **Convergence of uniform noncrossing partitions toward the Brownian triangulation**
FPSAC 2018. Séminaire Lotharingien de Combinatoire, **80B**, Art. 38, 1–12 (2018)
- [10] **A bijective study of basketball walks**
with **Éric Fusy, Cécile Mailler, Lucas Randazzo**.
Séminaire Lotharingien de Combinatoire, **77**, Art. B77a, 1–24 (2016)
- [9] **Compact Brownian surfaces I. Brownian disks**
with **Grégory Miermont**.
Probability Theory and Related Fields, **167**, 555–614 (2017)
- [8] **A simple explicit bijection between $(n, 2)$ -Gog and Magog trapezoids**
Séminaire Lotharingien de Combinatoire, **75**, Art. B75e, 1–9 (2016)
- [7] **Geodesics in Brownian surfaces (Brownian maps)**
Annales de l'Institut Henri Poincaré, **52**, 612–646 (2016)
- [6] **The Scaling Limit of Uniform Random Plane Maps, via the Ambjørn–Budd Bijection**
with **Emmanuel Jacob, Grégory Miermont**.
Electronic Journal of Probability, **19**, no. 74, 1–16 (2014)
- [5] **Increasing Forests and Quadrangulations via a Bijective Approach**
Journal of Combinatorial Theory, Series A, **122**, 107–125 (2014)
- [4] **Scaling Limit of Random Planar Quadrangulations with a Boundary**
Annales de l'Institut Henri Poincaré, **51**, 432–477 (2015)
- [3] **The Topology of Scaling Limits of Positive Genus Random Quadrangulations**
The Annals of Probability, **40**, 1897–1944 (2012)
- [2] **Scaling Limits for Random Quadrangulations of Positive Genus**
Electronic Journal of Probability, **15**, 1594–1644 (2010)

Proceedings

- [1] **Random maps**
with **Céline Abraham, Gwendal Collet, Igor Kortchemski**.
ESAIM: Proceedings and Surveys, **51**, 133–149 (2015)

Funding projects

2025–2029	Member of ANR Louccoum <i>Large Objects Under Combinatorial Constraints and Outside Uniform Models</i>
2024–2028	Member of ANR CartesEtPlus <i>Combinatorics of maps, meanders and multicurves, and its interactions</i>
2022–2026	Member of GDR Branchement
2022–2026	Member of European Staff Exchanges RandNET
2022–2026	Member of ANR IsOMa <i>A combinatorial study of the Ising model on maps</i>
2021–2025	Member of ANR 3DMaps <i>Combinatorics of 3D Maps</i>
2016	Member of PEPS Graphes aléatoires
2014–2019	Local coordinator of ANR GRAAL <i>GRaphes et Arbres ALéatoires</i>
2011–2016	Member of GDR Mathématiques et entreprises <i>Research group at the interface between the university and the industry</i>
2008–2012	Member of ANR A3 <i>Arbres aléatoires et applications</i>

Safety & health

PSSM

First aid in mental health

SST (⊃ PSC1)

First aid in physical health

CACES A / B1

Safe operation of construction machinery (loaders, backhoe loaders, dumpers, compactors) below 6t and excavators

