

Professional situation

- 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, Palaiseau
2017–2018 **Maître de conférence à temps partiel** at Département de mathématiques de l'École polytechnique, Palaiseau
2016–2017 **Chargé d'enseignement** at Département d'Informatique de l'École polytechnique, Palaiseau
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

Education

- 2022 **Habilitation à diriger des recherches** (École polytechnique, Palaiseau)
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)

Publications and preprints

- [14] **Scaling limit of random plane quadrangulations with a simple boundary, via restriction**
with N. Curien, L. Fredes, A. Sepúlveda. *Preprint*, [arXiv:2104.12716](https://arxiv.org/abs/2104.12716)
[13] **A bijection for nonorientable general maps**
Short version: *FPSAC 2016. Discrete Math. Theor. Comput. Sci. Proc.*, **BC**, 227–238 (2016)
Annales de l'Institut Henri Poincaré (D), to appear (2022)
[12] **Slit-slide-sew bijections for bipartite and quasibipartite plane maps**
Short version: *FPSAC 2019. Séminaire Lotharingien de Combinatoire*, **82B**, Art. 82, 1–12 (2019)
Electronic Journal of Combinatorics, **27(3)**, P3.4, 1–23 (2020)
[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 É. Fusy, C. Mailler, L. Randazzo. *Séminaire Lotharingien de Combinatoire*, **77**, Art. B77a, 1–24 (2016)
[9] **Compact Brownian surfaces I. Brownian disks**
with G. 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 E. Jacob and G. 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 C. Abraham, G. Collet and I. Kortchemski. *ESAIM: Proceedings and Surveys*, **51**, 133–149 (2015)

Distinction

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

Funding projects

2022–2026 **Member of GDR Branchement**
 2022–2026 **Member of European Staff Exchanges project RandNET**
 2022–2026 **Member of ANR project IsOMa “A combinatorial study of the Ising model on maps”**
 2021–2025 **Member of ANR project 3DMaps “Combinatorics of 3D Maps”**
 2014–2019 **Local coordinator of ANR project GRAAL “GRaphes et Arbres ALéatoires”**
 2011–2016 **Member of GDR Mathématiques et entreprises (GDR 3397)**
Research group at the interface between the university and the industry
 2008–2012 **Member of ANR project A3 “Arbres aléatoires et applications”**

Other skills

CACES A / B1

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

