

## 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 **Maître 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

## Important roles

- 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

- [16] **Slit-slide-sew bijections for constellations and quasicostellations**  
with D. Korkotashvili. *Preprint*, hal-04299507, arXiv:2311.12141
- [15] **Compact Brownian surfaces II. Orientable surfaces**  
with G. Miermont. *Preprint*, hal-03914157, arXiv:2212.12511

- [14] **Scaling limit of random plane quadrangulations with a simple boundary, via restriction**  
with N. Curien, L. Fredes, A. Sepúlveda. *Annales de l'Institut Henri Poincaré (B)*, to appear (2024)
- [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)*, **9(4)**, 733–791 (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)

## Funding projects

- 2023–2027 **Member of ANR CartesEtPlus** *Combinatorics of maps, meanders and multicurves, and its interactions*
- 2022–2026 **Member of GDR Branchement**
- 2022–2026 **Member of European Staff Exchanges RandNET**
- 2022–2026 **Member of ANR IsOMa** *A combinatorial study of the Ising model on maps*
- 2021–2025 **Member of ANR 3DMaps** *Combinatorics of 3D Maps*
- 2016 **Member of PEPS Graphes aléatoires**
- 2014–2019 **Local coordinator of ANR GRAAL** *GRaphes et Arbres ALéatoires*
- 2011–2016 **Member of GDR Mathématiques et entreprises**  
*Research group at the interface between the university and the industry*
- 2008–2012 **Member of ANR A3** *Arbres aléatoires et applications*

## 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*