

Yichao HUANG

Cursus

- 2018 – 20 | **Post-doctoral researcher** @ University of Helsinki.
Supervisors : **Antti Kupiainen** and **Eero Saksman**.
- 2014 – 17 | **PhD in probability** @ UPMC/ENS Paris.
Supervisors : **Rémi Rhodes** and **Vincent Vargas**.
- 2010 – 14 | **Élève normalien** @ ENS Paris.
Master in probability @ UPMC.
- 2008 – 10 | **Preparatory Classes MPSI-MP*** @ Lycée Janson de Sailly.
Admitted to ENS de Paris through entrance exam.

Publications

- [4] **Another probabilistic construction of Φ^{2n} in dimension 2**
ArXiv preprint (arXiv:2003.12535)
- [3] **Path integral approach to analytic continuation of Liouville theory: the probabilistic region**
ArXiv preprint (arXiv:1809.08650)
- [2] **Two perspectives of the 2D unit area quantum sphere and their equivalence**
with Juhan Aru and Xin Sun, Communications in Mathematical Physics
- [1] **Liouville Quantum Gravity on the unit disk**
with Rémi Rhodes and Vincent Vargas, Annales de l'Institut Henri Poincaré (B)

Conference talks

- 2020 | Spectral Theory and Probability in Mathematical physics, **Strasbourg, France** (postponed)
- 2018 | Stochastic Processes and their Applications (SPA), Invited Session, **Gothenburg, Sweden**
- 2017 | Conference “Fractal geometry and dynamics”, **Institut Mittag-Leffler, Sweden**
- 2016 | Conference “Les Probabilités de Demain”, **Institut des Hautes Études Scientifiques, France**
Colloquium “Jeunes Probabilistes et Statisticiens”, **École de Physique des Houches, France**
- 2013 | Conference “Des probas de la rue d'Ulm”, **École Normale Supérieure de Paris, France**

Seminar talks

- 2017 | Conference of Mathematical Physics group, **University of Helsinki, Finland**
- 2016 | Conference of Probability/Statistics team, **École Normale Supérieure de Paris, France**
PhD/Postdoc seminar of ENS Paris, **École Normale Supérieure de Paris, France**
- 2015 | PhD/Postdoc seminar of University Paris XII, **Université Paris-Est, France**

Research visits

- Fall 2018 | **Isaac Newton Institute, UK**
Supported by ERC grant QFPROBA
- Dec 2018 | **Tsinghua University, China**
Yau Mathematical Sciences Center
- Fall 2017 | **Institut Mittag-Leffler, Sweden**
IML postdoctoral fellowship grant
- Apr 2015 | **Isaac Newton Institute, UK**
Cambridge-PSL French embassy fund

Teaching

2020 – 21	Lecturer, undergraduate level, University of Helsinki (60 hours) Analysis Ia: Limits and Differentiation (possible online version due to Covid-19)
2019 – 20	Lecturer, undergraduate level, University of Helsinki (60 hours) Analysis Ia: Limits and Differentiation (first English version in the University of Helsinki)
2018 – 19	TA, undergraduate level, University of Helsinki (15 hours) Vector Analysis I
2014 – 17	TA, undergraduate level, University Paris VI (192 hours) Sequences, Integrals and Linear Algebra (Maths) Analysis and Algebra for Scientific Studies (Maths) Oscillatory Reactions (Chemistry) Arithmetic and Cryptography (Computer Science)
2011 – 12	Oral examiner in Preparatory Classes (60 hours) Lycée Janson de Sailly, Paris

Scientific duties

Referee	<u>Electronic Journal of Probability</u> <u>Journal of Mathematical Analysis and Applications</u>
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2013 – 17	Nominated member of the advisory committee of the laboratory, DMA, ENS Paris
2016	(Co)-Supervision of undergraduate thesis

Scientific vulgarisation

2017	Jury member of TFFJM ² (Tournoi français des jeunes mathématiciennes et mathématiciens)
2010	Tutor of six high school students, TalENS association

Languages

Chinese	Native
English	Fluent
French	Fluent
Finnish	Beginner