

Yichao HUANG

PhD, junior researcher in Mathematics

Personal Information

Birth April 3, 1991; People's Republic of China
Office Exactum C327, Kumpula Campus
Address P.O. Box 68 (Gustaf Hållströmin katu 2b), University of Helsinki, Finland
Contact yichao.huang@helsinki.fi

Current Employment

Since 2018 | **Post-doctoral researcher at University of Helsinki, Finland.**
Supervisors : **Antti Kupiainen** and **Eero Saksman** under the ERC-grant QFPROBA.

Education

2014 – 17 | **PhD student at University Paris VI and DMA of École Normale Supérieure de Paris.**
Supervisors : **Rémi Rhodes** and **Vincent Vargas**.
PhD thesis in probability on *Gaussian Multiplicative Chaos* and *Liouville Quantum Gravity*.
Defended in Nov 2017 at DMA/ENS. Referees: Nathanaël Berestycki, Christophe Garban.
Jury : J. Barral, N. Curien, C. Garban, A. Kupiainen, R. Rhodes, E. Saksman, Z. Shi, V. Vargas.

2010 – 14 | **Élève normalien at École Normale Supérieure de Paris.**
FIMFA cursus of École Normale Supérieure de Paris. ENS Paris Diploma.
Master “Probabilités et modèles aléatoires” at University Paris VI, grade “Très Bien”.
Thesis on *critical Gaussian Multiplicative Chaos*. Supervisors: Rémi Rhodes, Vincent Vargas.

2008 – 10 | **Preparatory Classes MPSI-MP*, Lycée Janson de Sailly.**
Admitted to École Normale Supérieure de Paris through French national entrance exam.

Publications et preprints

- [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

2018 SPA (Conference on Stochastic Processes and their Applications), **Göteborg, 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

Sep 2017 – Dec 2017 **Institut Mittag-Leffler, Sweden**
IML postdoctoral fellowship grant
Apr 2015 **Isaac Newton Institute, UK**
Cambridge-PSL French embassy fund

Other conference participations

2018 Scaling limits, rough paths, quantum field theory, **Isaac Newton Institute, UK**
2017 Mini-school on Random Maps and the Gaussian Free Field, **ENS Lyon, France**
2015 Disordered systems, random spatial processes and applications, **Institut Henri Poincaré, France**
Random geometry, **Isaac Newton Institute, UK**
2014 School and Workshop on Random Interacting Systems, **University of Bath, UK**
Probability Summer School in Saint-Flour, **Saint-Flour, France**

Teaching

2014 – 17 | **TA, undergraduate level (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

Administrative activities

2013 – 17 **Nominated member of the advisory committee of the laboratory**, DMA, ENS Paris
2016 **(Co)-Supervision of undergraduate thesis**

Scientific vulgarisation

2016 – 17 | **Jury member of TFFJM² (Tournoi français des jeunes mathématiciennes et mathématiciens)**
TFFJM²: team competition by high school students who work several months on open questions

2010 – 11 | **Tutor of six high school students**, TalENS association

Languages

Chinese Native
English Fluent
French Fluent
Finnish Noob

Personal activities

Piano | **Student of Éric Vidonne**, Hector Berlioz conservatory (CMA10) in Paris (2013–2017).
Concours international des amateurs à l'X (2015): first prize, audience award (Mozart K.450).
(Co-)organiser of the classical music club of the ENS since 2013: one free concert per month.
Invitation of international pianist: organisation of a free concert proposed by Valentina Lisitsa.

Sports | Basketball/volleyball team at the ENS; organisation of several tournaments in Paris (TRU).