

# Yichao HUANG

PhD student in Mathematics

## Personal Informations

*Birth* April 3, 1991; People's Republic of China  
*Address* Bureau V6, DMA-ENS, 45 rue d'Ulm, 75005 Paris  
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## 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*. Expected to defend in 2017.
- 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”.  
Master thesis on *critical Gaussian Multiplicative Chaos* under the supervision of Rémi Rhodes and Vincent Vargas.
- 2008 – 10 | **Preparatory Classes MPSI–MP\*, Lycée Janson de Sailly.**  
Admission to École Normale Supérieure de Paris through national entrance exam.

## Publications et preprints

- [2] **Two perspectives of the 2D unit area quantum sphere and their equivalence**  
*arXiv:1512.06190*, **submitted**, with Juhan Aru and Xin Sun
- [1] **Liouville Quantum Gravity on the unit disk**  
*arXiv:1502.04343*, **submitted**, with Rémi Rhodes and Vincent Vargas

## Conference talks

- 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

- 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 visit

- April 2015 | **Isaac Newton Institute, Cambridge, UK**  
“Random geometry” program

## Conferences attended

- 2017 Fractal geometry and dynamics, **Institut Mittag-Leffler, Sweden**  
Inhomogeneous Random Systems, **Institut Henri Poincaré, 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

- 2016/17 | **TA, undergraduate level**  
Arithmetic and Cryptography (Computer Science)
- 2015/16 | **TA, undergraduate level**  
Analysis and Algebra for Scientific Studies (Maths)  
Oscillatory Reactions (Chemistry)  
Arithmetic and Cryptography (Computer Science)
- 2014/15 | **TA, undergraduate level**  
Sequences, Integrals and Linear Algebra (Maths)  
Oscillatory Reactions (Chemistry)
- 2011/12 | **Oral examiner in Preparatory Classes**  
Lycée Janson de Sailly, Paris
- 2010/11 | **Tutor of six high school students**  
TalENS association: scientific vulgarisation for high school students

## Administrative activities

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

## Languages

- French** Fluent  
**English** Fluent  
**Chinese** Native

## Personal activities

- Piano* | **Student of Éric Vidonne**, Hector Berlioz conservatory (CMA10) in Paris.  
**Concours international des amateurs à l'X (2015)**: first prize, audience award.  
**(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 at the ENS.
- Sports* | Basketball/volleyball team at the ENS; organisation of several tournaments in Paris (TRU).