

YU MIN

Institut de Mathématiques de Jussieu  
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## PERSONAL INFORMATION

- Date of Birth: October 20, 1995
- Nationality: Chinese
- Email Address: [yu.min@imj-prg.fr](mailto:yu.min@imj-prg.fr)

## EDUCATION

- **Sorbonne Université, Paris, France**  
October 2017—Present: Ph.D. candidate, Mathematics  
Advisor: Matthew Morrow
- **Université Paris 13, Paris, France**  
September 2016—September 2017: Master, Mathematics  
Master mémoire: Lattices in crystalline representations  
Advisor: Matthew Morrow  
Mention: Très bien
- **Zhejiang University, Hangzhou, China**  
September 2012—June 2016: B.S. in Mathematics

## RESEARCH INTERESTS

Arithmetic geometry and number theory, especially (integral) p-adic Hodge theory, p-adic cohomology theories, Galois representations.

## PAPERS/PREPRINTS

1. Integral comparison theorem of formal schemes in low ramification.  
Preprint (2019), available at: <http://webusers.imj-prg.fr/~yu.min/>

## CONFERENCES/WORKSHOPS ATTENDED

- Winter school on local geometric Langlands theory  
University of Paris 7, January 15–19, 2018
- Arbeitsgemeinschaft: Topological cyclic homology  
Mathematisches Forschungsinstitut Oberwolfach: April 1–7, 2018
- Trimester program: Geometrization of Langlands program  
ENS Lyon, June 2018
- JAVA: Hodge theory of character varieties and the P=W conjecture  
Tatihou island, France, July 23–27, 2018
- CATS5: categories and stacks in algebraic geometry and algebraic topology  
Lisbon, September 26–October 5, 2018
- Syntomic cohomology and p-adic Hodge theory  
Mathematisches Forschungsinstitut Oberwolfach, November 18–24, 2018
- Periods and motives  
Berlin, July 8–12, 2019

- The Emerton-Gee stack and related topics  
Hausdorff Center for Mathematics, Bonn, September 9–13, 2019
- The Paris-London number theory seminar, in memory of Jean-Marc Fontaine and Jean-Pierre Wintenberger  
IHES, October 14–15, 2019

### **SEMINAR/STUDY GROUP**

- September 2017—May 2018: Topological cyclic homology
- September 2017—May 2018: Infinity category  
one talk given about model category and one about stable infinity category
- February 2018—June 2018: Crystalline cohomology  
one talk given about the Poincaré lemma and one about crystals
- October 2018—December 2018: Prismatic cohomology  
one talk given about étale comparison theorem
- October 2019—Present: Work of Caraiani-Scholze

### **INVITED TALKS**

- November 2018: “p-adic cohomology theories”, Séminaire Mathjeunes
- November 2019: “Nature fractale du complexe de de Rham-Witt”  
Complexe de de Rham-Witt d’après Bhatt-Lurie-Mathew, Banyuls, France
- November 2019: “On the structure of Breuil-Kisin cohomology in low ramification”, Number theory seminar at IMJ-PRG

### **TEACHING EXPERIENCE**

- Spring 2019 Teaching assistant: 1M004 Calcul Matricielle (matrix calculus)  
Run the exercises sessions for first-year undergraduate students
- Fall 2019 Teaching assistant: 2MA221 Algèbre lineaire et bilineaire (linear and bilinear algebra)  
Run the exercises sessions for second-year undergraduate students

### **SERVICE ACTIVITIES**

- 2018—Present: Co-organize Séminaire Mathjeunes with Zicheng Qian and Xiaozong Wang. This seminar started in September 2008 and takes place every two or three weeks, which is dedicated to Ph.D. students specializing in algebraic geometry and number theory in Paris.

### **AWARDS**

- 2016–2017 Master Scholarship of Paris Graduate School of Mathematical Sciences (PGSM), awarded by Foundations Sciences Mathématiques de Paris (FSMP) to pursue masters studies in mathematics in Paris.

### **LANGUAGES**

Chinese, English, French