

Haohao Liu

Curriculum Vitae

IMJ-PRG, 4 place Jussieu
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Education

- 2021-Present **Ph.D student**, *IMJ-PRG, Sorbonne University*, France
under the supervision of Anna Cadoret
- 2018-2021 **Le diplôme de l'ENS**, *DMA, École Normale Supérieure (ENS)*, France
- 2019-2020 **Master in Mathematics**, *Sorbonne University*
- 2015-2019 **Bachelor in Mathematics**, *University of Science and Technology of China (USTC)*, China

Awards

- 2019 Guo Moruo Scholarship
- 2018 14th place in International Mathematics Competition for University Students
- 2018 Bronze medal in Analysis, the 9th Shing-Tung Yau College Student Mathematics Contests
- 2018 First prize in the 9th Mathematics competition of Chinese College Students

Teaching

- 2022 **Chargé de colles**, *Algèbre et Analyse*, Université de Paris
- 2021 **Chargé de TD**, *Mathématiques 3*, Université de Paris
- 2018 **Teaching assistant**, *Linear Algebra I*, USTC
- 2017 **Teaching assistant**, *Linear Algebra II*, USTC

Expository talks

- Nov. 2023 **Monodromy group and sheaf convolution group**, *Séminaire Arithmétique et géométrie algébrique*, IRMA, Strasbourg
- Oct. 2023 **"Arithmetic finiteness of very irregular varieties" after Krämer-Maculan**, *Arithmetic Geometry Preprint Seminar*, IMJ-PRG, Paris
- Aug. 2023 **Three talks on "Rational Points and Geometry"**, *Seminars for young researchers*, RIMS, Kyoto
- Jun. 2023 **Fourier-Mukai transform on complex tori**, *Humboldt Arithmetic Geometry Seminar and Séminaire Mathjeunes*, Humboldt University and Sorbonne University, Berlin and Paris
- Jun. 2023 **Group extensions of complex Lie groups**, *Séminaire des Thésards*, IMJ-PRG, Paris

- Nov. 2022 **Generic vanishing theorem for Fujiki class C** , *Séminaire Mathjeunes*, Sorbonne University, Paris
- Feb. 2022 **Ullmo-Yafaev's alternative about rational points on Shimura varieties**, *Séminaire Mathjeunes*, Sorbonne University, Paris
- Jan. 2022 **La conjecture André-Oort pour un produit des courbes**, *Groupe de travail "La Conjecture André-Oort"*, IMJ-PRG, Paris
- Mar. 2021 **Proof of Uniform Open Image Theorem (after Cadoret-Tamagawa)**, *Groupe de travail "Points rationnels et uniformités"*, IMJ-PRG, Paris
- Oct. 2020 **Uniformity of Rational Points under Lang Conjecture (after Caporaiso-Harris-Mazur)**, *Groupe de travail "Points rationnels et uniformités"*, IMJ-PRG, Paris
- Oct. 2020 **Hodge Theory**, *mémoire DENS*, ENS, Paris
- Jul. 2020 **A p -adic approach to Mordell Conjecture (after Lawrence-Venkatesh)**, *mémoire de M2*, Score: 19/20, Sorbonne University under the supervision of Anna Cadoret
- Mar. 2020 **Real Closed Field and Nullstellensatz**, *"Corps Réels Clos et Structures o-minimales" course*, ENS
- Jun. 2019 **Tate's Thesis**, *Undergraduate thesis*, Score: 18/20, USTC under the supervision of Benoît Stroh
- Dec. 2018 **Faddeev's theorem**, *Groupe de Travail "Invariant Theory"*, ENS
- Nov. 2018 **Hecke Operators**, *"Algèbre 2" course*, ENS
- Nov. 2018 **Nagata's counterexample**, *Groupe de Travail "Invariant Theory"*, ENS