Guorui Xu

Personal Information	Université Sorbonne Paris Nord LAGA, Institut Galilée Villetaneuse, 93430, France	*Birth:* 28.12.2002, China *E-mail:* gr.xu@hotmail.com *Website:* https://guoruixu.github.io/	

Interests

The intersection between geometry and representation theory. Especially now for geometry of connections and its applications to equations such as Painlevé VI.

Education

PGSM Program M2 in Paris Centre   *Sep 2025-*
     Mathématiques Fondamentales

Université Paris 13, M1   *Sep 2024-Jun 2025*
     Mathématiques Fondamentales et Applications

Shandong University, Bachelor   *Sep 2021-Jun 2024*
     Mathematics and Applied Mathematics
     Graduation with honor
     Thesis: *Algebraic D-modules and RHC*

Academic Experience

An introduction to Chow motives, ongoing
Advisor: *MCF. Charles de Clercq*, project for M1S2

Character varieties
Advisor: *MCF. Matteo Tamiozzo*, project for M1S1

Number theory and harmonic analysis
About using decoupling techniques on p-adic field to give an asymptotic estimate for solutions of certain diophantine equations.
Advisor: *Prof. Xianchang Meng*, Apr 2022 - Apr 2023

Seminar

Quantum group, *Organizer: Xiaomeng Xu*, Spring 2024
Fourier restriction and decoupling, *Organizer: Guorui Xu*, Spring 2023

Visiting

BICMR&Peking University, *Program for Graduate Study*, Feb 2024-Jun 2024
Sichuan University, *Summer school on Geometry and Topology*, Jul 2023
Xiamen University, *short course in Mordell-Weil*, June 2023

Awards

Bourse de PGSM, Sep 2025-Jun 2026
Grants from BICMR, Feb - Jul in 2024
Scholarship from Shandong University in 2022

Languages

Chinese(Naive), French(DELF B1), English(IELTS 6.5)

Software

Matlab, SPSS, Python, C