

# Sanyam GUPTA

## Curriculum Vitæ

Université de Lille  
Laboratoire Paul Painlevé - CNRS UMR 8524  
✉ sanyam.gupta@univ-lille.fr

### Education

- 2024– **PhD in Mathematics**, *Université de Lille*, Lille, France.
- 2022– 2024 **Master: Mathématiques Fondamentales**, *Sorbonne Université*, Paris, France.
- 2017–2022 **BS-MS Dual Degree in Mathematics**, *Indian Institute of Science Education and Research*, Berhampur.

### Projects

- 2024 **Master Thesis**, *p-adic interpolation of Rankin-Selberg Convolution*, Advisor: Prof. Mladen Dimitrov.
- 2023 **Travail d'étude et de recherche**, *Fontaine's Period Rings*, Advisor: Prof. Benoit Stroh.
- 2022 **Final Year Project**, *Stickelberger's Theorem and Brumer-Stark Conjecture*, Advisor: Dr. Prem Prakash Pandey, IISER Berhampur.
- 2021 **Summer Research Student**, *An Introduction to the Conjecture of Bloch and Kato*, Advisor: Prof. Eknath Ghate, Tata Institute of Fundamental Research, Mumbai, India.
- 2019 **Summer Research Student**, *Uniform Distribution and Discrepancy Theory*, Advisor: Prof. Anirban Mukhopadhyay, Institute of Mathematical Sciences, Chennai, India.

### Achievements

- Received **FSMP** (Fondation Sciences Mathématiques de Paris) PSGM Masters scholarship.
- Received **Proficiency Medal** for the best academic performance in Mathematics major discipline of the 2022 batch.

### Fellowships and Scholarships

- 2021 **Visiting Students' Research Program Fellowship**, *TIFR, Mumbai*.
- 2019 **Summer Research Fellowship**, *IMSc, Chennai*.
- 2018 **Visiting Student Fellowship**, *HRI, Allahabad*.
- 2017–2022 **INSPIRE Scholarship**, *Department of Science and Technology, Govt. of India*, Complete scholarship for undergraduate studies.

---

## Teaching Experience

Université de Lille

Autumn 2024 Mathematics for L1

Teaching Assistant, IISER Berhampur

Autumn 2021 MTH 305: Elementary Number Theory

Autumn 2021 MTH 401: Fields and Galois Theory

---

## Conferences and Workshops Attended

- July, 2024 **Closing conference on Galois representations, automorphic forms and their L-functions**, University of Luxembourg, Luxembourg.
- June, 2024 **Bellaïche memorial conference: Modular Forms, L-functions, and Eigenvarieties**, ENS Ulm, Paris.
- March, 2024 **Lean for the curious mathematician**, CIRM, Luminy.
- August, 2023 **l'Ecole d'été "A la découverte des correspondances de Langlands locales : représentations de groupes p-adiques, théorie du corps de classes et immeubles de Bruhat-Tits"**, UPJV, Amiens.
- 2021 **International Conference on Class Groups of Number Fields and Related Topics (Online)**, *Celebrating Prof. Michel Waldschmidt's 75-th birth year*, Kerala School of Mathematics, India.
- 2021 **Elliptic Curves and the Special Values of L-functions (Online)**, *Workshop*, International Centre for Theoretical Sciences, Bangalore, India.
- 2021 **Recent Advances in Mathematics and Related Areas (Online)**, *Conference*, International Conference Commemorating Srinivasa Ramanujan, Kerala School of Mathematics, India.
- 2019 **Workshop on Analytic Number Theory (In-person)**, *Workshop*, National Centre of Mathematics, India.
- 2018 **Analytic Geometry and Number Theory in Diophantine Problems(In-person)**, *Mini-course by Prof. Andrew Bremner*, Harish-Chandra Research Institute, India.

---

## Seminars and Conferences Organized

- 2021 **May 12: Celebrating Women In Mathematics**, *Student Coordinator*.
- 2021 **Public Lecture**, *Speaker: Prof. Preda Mihailescu*, Organized in collaboration with CMIT (IISER TVM), YouTube link.
- 2020-2021 **Mathematics Online Seminar Series (MOSS)**, *Organizer*.

---

## Initiatives and Duties

- 2019 **Project Spiral**, *The Mathematics Club at IISER Berhampur*, Founding Co-ordinator.
- 2019 **Science to Reach Everyone and Motivate (STREAM)**, *Science Outreach for Underprivileged Students*, Co-founder.



Computer skills

PYTHON, PARI/GP, L<sup>A</sup>T<sub>E</sub>X



Languages

- Hindi **Native**
- English **Advanced**
- French **Intermediate**