

Arnab Kundu

PhD Student, 24 years old

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Education

- 2020-2023 **PhD in Mathematics**, 3rd year, Université Paris-Saclay, Orsay, France.
under the supervision of Prof. [Kęstutis Česnavičius](#)
- 2018-2020 **Master : Mathématiques Fondamentales**, Sorbonne Université, Paris, France, Score - 18.9/20.
Mention: Très Bien
- 2015-2018 **B.Sc.(Hons.)**, Chennai Mathematical Institute, Chennai, India, CGPA - 9.83.
Mathematics and Computer Science Undergraduate

Preprints:

- [arXiv:2110.10120](https://arxiv.org/abs/2110.10120) **Tilting Correspondances of Perfectoid rings**, accepted to the Journal of the Ramanujan Mathematical Society.
- Grothendieck-Serre on Smooth over Valuation Rings**, in Preparation.
- Purity over Valuation Rings**, in Preparation.

Achievements:

- Received **FSMP**(Fondation Sciences Mathématiques de Paris) PSGM Masters 2018-2020 scholarship.
- Received **Gold Medal** for the best undergraduate academic record of the 2018 batch.
- Attended the Indian **IMO training camp** thrice in 2013, 2014 and 2015 which were held at HBCSE, Mumbai.

Talks

- November 2022 **Preprint Seminar**, Paris, "Torsors on the Complement of a Smooth Divisor" after Česnavičius.
- November 2022 **Seminar of PhD students**, Orsay, Grothendieck-Serre conjecture on Valuation Rings.
- October 2022 **Seminar Mathjeunes**, Paris, Grothendieck-Serre conjecture on Valuation Rings.
- June 2022 **Seminar SAGA**, Orsay, Tilting Correspondences of Perfectoid Rings.
- December 2021 **Seminar RéGA**, Paris, Tilting Correspondences of Perfectoid Rings.

Teaching Experience

Fall 2022, **Mathematics - 1**, *Teacher*, Institut Universitaire de Technologie (IUT).
 2021 & 2020 Cachan, France

Fall 2016 **Analysis 1**, *Teaching Assistant*, Chennai Mathematical Institute(CMI), Chennai, India.

January 2016 **INMO Training Camp Chennai**, *Instructor*.

Workshops and Conferences

Spring 2022 **Franco-Asian Summer School on Arithmetic Geometry**, *CIRM*, Luminy, France.

- **Géométrie Algébrique en Liberté (GAeL) XXIX**, *Université Paris-Saclay*, Orsay, France.
- **Cohomology of Varieties**, *IMPAN*, Warsaw, Poland.
- **Kleine AG: Weil Conjectures**, *Universität Bonn*, Germany.

Fall 2019 **Perfectoid Spaces**, *ICTS*, Bangalore, India.

Summer 2019 **Arithmetic Geometry in Carthage**, *Tunisian Academy Beit al-Heikma*, Carthage, Tunisia.

Summer 2018 **École Jeunes Chercheurs en Théorie des Nombres 2018**, *Université de Franche-Comté Laboratoire de Mathématiques de Besançon*, Besançon, France.

Winter 2017 **ATMW Analytic Number Theory**, *ISI*, Kolkata, India.

Winter 2016 **Theoretical and Computational Aspects of the Birch and Swinnerton-Dyer Conjecture**, *ICTS*, Bangalore, India.

Seminar Organising

2022- **Seminaire Réseau des étudiants en Géométrie Algébrique (RéGA)**, *Institut Henri Poincaré(IHP)*, Paris, France, [Website](#).

Languages

Native Bengali
 Advanced English
 Intermediate French
 Conversational Hindi
 Absolute beginner German

Computer skills

Programming	Python, Haskell, C++, C, Java	Web design	HTML, CSS
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