

Arnab Kundu

PhD Student, 24 years old

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Education

- 2020–2023 **PhD in Mathematics**, 2nd 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 over 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
- **KVPY**(Kishore Vaigyanik Protsahan Yojana) SA 2013 scholar.

Talks

- December 2021 **Seminar RéGA**, *Tilting Correspondences of Perfectoid Rings*.
- February 2022 **Seminar CohoSing**, *The Arc Topology*.

Teaching Experience

- Fall 2020, 2021 & 2022 **Mathematics - 1**, Teacher, Institut Universitaire de Technologie (IUT). Cachan, France
- Fall 2016 **Analysis 1**, Teaching Assistant.
- January 2016 **INMO Training Camp Chennai**, Instructor.

Internships

- Spring 2020 **M2 Mémoire**, *Tilting Correspondences for Integral Perfectoid Rings*, under Prof. Kęstutis Česnavičius, Université Paris-Saclay, France.
- Spring 2019 **T.E.R.**, *Proper Base Change Theorem in Etale Cohomology*, under Prof. Benoît Stroh, Sorbonne Université, Paris, France.
- Summer 2018 **CMI-ENS Exchange Program**, *Perfectoid Fields*, Under Prof. Ariane Mézard, École Normale Supérieure, Paris, France.
- Summer 2017 **Maths REU**, *The Étale Fundamental Group of an Elliptic Curve*, University of Chicago, Chicago, USA.
- Summer 2016 **Summer Internship**, *Vershik Okunkov Approach to Representations of Symmetric Groups*, Under Prof. K.N. Raghavan, IMSc, Chennai, India.

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.

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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Last updated on June 6, 2022