

## Contact Information

Mathematisches Institut der Universität Bonn  
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## Research interests

Number theory, automorphic forms and representations, L-functions.

## Employment

**present** **Mathematisches Institut der Universität Bonn**, Bonn, Germany, 2023–2026.  
Postdoctoral researcher.

**2022–2023** **QMUL**, London, United Kingdom.  
Postdoctoral research associate.

## Education

**2018–2022** **QMUL**, London, United Kingdom.  
PhD under the direction of ABHISHEK SAHA. Thesis title : *Whittaker coefficients of automorphic forms and applications to analytic number theory*.

**2016–2017** **Université de Bordeaux**, Bordeaux, France.  
Master's degree in Mathematics, speciality in Algebra, Geometry and Number Theory.

**2014–2015** **École Normale Supérieure de Cachan**, Cachan, France.  
Master 1 in Mathematics, mention **Very Good**.  
Master 1 in theoretical Computer Science, mention **Very Good**.

**2013–2014** **École Normale Supérieure de Cachan**, Cachan, France.  
Bachelor's degree in Mathematics, mention **Good**.  
Bachelor's degree in theoretical Computer Science, mention **Good**.

## Preprints and Publications

**2023** **Bounds on Fourier coefficients and global sup-norms for Siegel cusp forms of degree 2**, preprint, [arxiv.org/abs/2307.07376](https://arxiv.org/abs/2307.07376).

**2021** **A relative trace formula approach to the Kuznetsov formula on  $\mathrm{GSp}_4$** , preprint, [arxiv.org/abs/2107.08755](https://arxiv.org/abs/2107.08755).

**2020** **Optimal sup norm bounds for newforms on  $\mathrm{GL}_2$  with maximally ramified central character**, *Forum Mathematicum*, 33 (2021), no.1, 1–16.

**2019** **A uniform estimate for the density of rational points on quadrics**, *J. Théor. Nombres Bordeaux*, 31 (2019), no. 1, 243–253.

## Research work and unpublished scientific writings

**2018** **Bristol University**, Bristol, United Kingdom.  
Five months research project with TIM BROWNING : counting rational points, leading to my *J. Théor. Nombres Bordeaux* paper.

- 2017 **ETH Zürich, Zürich, Switzerland.**  
Five months research project with EMMANUEL KOWALSKI : sieving methods for automorphic forms on  $GL_3$ , unpublished internship report.
- 2017 **Université de Bordeaux, Bordeaux, France.**  
Master's thesis under the direction of FLORENT JOUVE in Number Theory : asymptotic distribution of Galois groups of integral polynomials.
- 2015 **Helsinki University, Helsinki, Finland.**  
Research internship with JOUKO VÄÄNÄNEN in second order Logic and Set Theory : undecidability in ZFC of second order logic's categoricity, unpublished research article.
- 2014 **École Normale Supérieure de Cachan, Cachan, France.**  
Bachelor's thesis under the direction of JEAN-MICHEL MOREL and CARLO DE FRANCHIS in image processing : stereo matching algorithm in  $\mathbb{C}$ , unpublished research article.

## Conference Talks

- June 2023 **Arithmetic Statistics in Automorphic Forms and Analytic Number Theory, Lausanne, Switzerland, (contributed talk).**
- September 2022 **Automorphic Forms Conference, Budapest, Hungary (contributed talk).**
- March 2022 **Young Scholars in the Analytic Theory of Numbers and Automorphic Forms, Bonn, Germany.**
- May 2019 **Colloque Inter'Actions en Mathématiques 2019, Talence, France.**
- April 2019 **Analytic Aspects of Automorphic Forms, Lille, France.**

## Invited talks at research seminars

- April 2023 **Séminaire Arithmétique, Lille, France.**
- March 2023 **London Number Theory Seminar, London, United Kingdom.**
- December 2022 **Methusalem Junior Seminar, Leuven, Belgium.**
- August 2022 **Number theory seminar, Copenhagen, Denmark.**
- May 2022 **Egham-Reading-London Arithmetic Statistics Seminar VI, London, United Kingdom.**
- May 2021 **Linfoot seminar, Bristol, United Kingdom.**

## Teaching Experience

- 2020–2021 **QMUL.**  
Semester 1 Teaching Assistant for *Introduction to Probabilities*  
**King's College London.**  
Semester 1 Tutor for *Introduction to Number Theory*
- 2019–2020 **QMUL.**  
Semester 2 Teaching Assistant for *Introduction to Differential Geometry.*  
Teaching Assistant for *Introduction to Algebra.*
- Semester 1 Teaching Assistant for *Calculus 1.*
- 2018–2019 **QMUL.**  
Semester 2 Demonstrator for *Complex Variable.*

## Administration and Service

Royal Institution Speaker

AMS Reviewer