

# Guillaume Dumas

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## Education

- 2022- **PhD**, *Institut Camille Jordan, Université Claude Bernard Lyon 1*, Lyon, France.  
supervised by Mikael de la Salle
- 2021-2022 **M2 Fundamental Mathematics**, *Ecole Normale Supérieure de Lyon*, Lyon, France.
- 2020-2021 **M2 FEADéP**, *Ecole Normale Supérieure de Lyon*, Lyon, France.  
Agrégation, rang 4
- 2019-2020 **M1 Mathematics**, *Ecole Normale Supérieure de Lyon*, Lyon, France.
- 2018-2019 **L3 Mathematics**, *Ecole Normale Supérieure de Lyon*, Lyon, France.  
Cambridge Certificate in Advanced English (CAE) Grade A (Niveau C2)
- 2016-2018 **CPGE (MPSI-MP\*)**, *Lycée Blaise Pascal*, Clermont-Ferrand, France.

## Experience

- April-July **Internship**, *ICJ*, Lyon, France.  
2022 On Gelfand pairs and semisimple Lie groups, supervised by Mikael de la Salle
- May-July **Internship**, *remote due to Covid-19*.  
2020 On singular homology, supervised by David Barnes
- May-June **Internship**, *LPT*, Toulouse, France.  
2019 On superpermutations, supervised by Ion Nechita.

## Publications

1. **Regularity of matrix coefficients of a compact symmetric pair of Lie groups**, published in *Trans. Amer. Math. Soc* 377(10), 2024.
2. **On quasi-homomorphism rigidity for lattices in simple algebraic groups**, Preprint, submitted.
3. **Regularity of  $K$ -finite matrix coefficients of a semisimple Lie group**, Preprint, submitted.
4. **Cartan motion groups: regularity of  $K$ -finite matrix coefficients**, Preprint.

## Talks

1. **Non commutative harmonic analysis seminar**, *LMNO, Caen*, October 2023.
2. **PhD student seminar**, *ICJ, Lyon*, December 2023.
3. **Non commutative analysis on groups and quantum groups**, *Conference, Besançon*, December 2023.
4. **PhD student seminar**, *I2M, Marseille*, February 2024.
5. **Operator algebra seminar**, *IMJ-PRG, Paris*, October 2024.

