A N N A
ROIG SANCHIS

CONTACT INFO

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ABOUT ME

I am a PhD student in Mathematics at Sorbonne Université. My mathematical interests lie in the geometry and topology of low-dimensional hyperbolic manifolds, studying them through probabilistic techniques. In particular, my work focuses on the study of typical and extremal behaviour of geometric invariants of random hyperbolic 3-manifolds.

EDUCATION

PhD in Mathematics   **Oct 2021 - Sept 2024 (Exp.)**

Sorbonne Université | *Advisor: Bram Petri*

**Master in teaching in secondary schools
(specialization in Mathematics)**   **Sept 2020 - July 2021**

Universitat Autònoma de Barcelona (UAB)

Master in advanced Mathematics   **Sept 2019 - July 2020**

Universitat de Barcelona (UB)

Bachelor in Mathematics   **Sept 2015 - July 2019**

Universitat de Barcelona (UB)

WORK EXPERIENCE

Teaching assistant   **2022 - 2024**

Sorbonne Université
(To BSc and MSc students in Mathematics)

• Topology and Differential Calculus I	Sept 2022 - Jan 2023
• Introduction to Probability	Jan 2023 - May 2023
• Topology and Differential Calculus I	Sept 2023 - Jan 2024
• Master course: Introduction to Teichmüller theory	Jan 2024 - Feb 2024

PUBLICATIONS

Articles   Roig-Sanchis, Anna (2023). "The length spectrum of random hyperbolic 3-manifolds". In: arXiv: 2311.04785.

TALKS

Seminaire de Géométrie

Aix-Marseille Université | *Marseille, France*

March 28, 2024

Conference: "Surfaces, Manifolds and Related Topics"

University of Luxemburg | *Luxemburg*

March 20, 2024

Conference: KAIST Geometric Topology Fair

University of Busan | *Busan, Corea*

Jan 19, 2024

Geometry seminar

Universitat Autònoma de Barcelona | *Barcelona, Spain*

Dec 5, 2023

Seminaire: "Les Probabilités de Demain"

Institut Henri Poincaré (IHP) | *Paris, France*

Nov 15, 2023

Conference: "Geometry and Probability in, on and at non-Euclidean spaces"

C.I.R.M | *Marseille, France*

Oct 3, 2023

Colloque de Géométrie

Université de Paris Est-Créteil | *Créteil, France*

April 14, 2023

Geometry seminar

University of Luxemburg | *Luxemburg*

March 28, 2023

Working group: Thin groups

Sorbonne Université | *Paris, France*

March 24 2023

Séminaire de Géométrie et Combinatoire

Sorbonne Université | *Paris, France*

Feb 21, 2023

Conference: "Combinatorics of finite-index subgroups"

Institut Henri Poincaré (IHP) | *Paris, France*

Nov 2, 2022

Conference: TSW2022

Georgia Tech | *Atlanta, UE*

July 28, 2022

Journée d'équipe ACG

Sorbonne Université (Paris) | *Paris, France*

June 16, 2022

ATTENDED CONFERENCES

2023

- **GRAZP: Groups and Rigidity Around the Zimmer Program**
  Ventotene, Italy — Sept 11-16

- **Durham Symposium 2023: Spectral gaps**
  Durham University | Durham, England — Aug 7-11

- **IMJ Summer school: Microlocal and probabilistic methods in geometry and dynamics**
  IMJ-PRG | Paris, France — July 3-7

- **Groups and Dynamics in Geometry**
  Ascona, Switzerland — May 29 - June 2

- **1,2,3: Curves, Surfaces and 3-Manifolds**
  Haifa, Israel — May 7 - 11

- **Geometry, Probability and their Synergies**
  Les Diablerets, Switzerland — March 13-17

- **Winter School: Geometry of Locally Symmetric Spaces**
  Montevideo, Uruguay — Feb 28 - March 9

2022

- **ANR ADYCT**
  Strasbourg, France — Nov 7-8

- **Graduate School on Random walks**
  Göttingen, Germany — Oct 17-21

- **Graduate school on Geometric Group Theory and Low Dimensional Topology,**
  ICMAT | Madrid, Spain — May 16-27

- **Structures on Surfaces**
  CIRM | Marseille, France — May 2-6

- **Winter School on Billiards**
  Autrans, France — Jan 17-21

2021

- **GDR Platon**
  CIRM | Marseille, France — Nov 15-17

SKILLS

Digital   C++, Matlab, Sagemath

Languages
- Catalan (native)
- Spanish (native)
- English (Proficient)
- French (Advanced)