## ANNA

### **ROIG SANCHIS**

#### **CONTACT INFO**

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#### **ABOUT ME**

I am a postdoc researcher at the Max Planck Institute for Mathematics in Leipzig. My mathematical interests lie in the geometry and topology of low-dimensional hyperbolic manifolds, studying them through probabilistic techniques. In particular, my PhD thesis focused on the study of typical behaviours of geometric invariants of random hyperbolic 3-manifolds.

#### **CAREER**

Post-doctoral researcher

Nov 2024 - current

Max Plack Institute for Mathematics | Leipzig

**Teaching assistant** 

Sept 2022 - Feb 2024

**Sorbonne Université** | Paris

PhD student

Oct 2021 - Oct 2024

**Sorbonne Université** | Paris

#### **EDUCATION**

PhD in Mathematics

Oct 2021 - Oct 2024

**Sorbonne Université** | Advisor: Bram Petri

Master in teaching in secondary schools (specialization in Mathematics)

Universitat Autònoma de Barcelona (UAB)

Sept 2020 - July 2021

**Master in advanced Mathematics** 

Universitat de Barcelona (UB)

**Bachelor in Mathematics** 

Sept 2015 - July 2019

Universitat de Barcelona (UB)

# TEACHING EXPERIENCE

**PUBLICATIONS** 

**TALKS** 

**Teaching assistant** 

Teaching assistant		2022 - 2024
(To BSc and	<b>niversité</b> MSc students in Mathematics)	
<ul><li>Introduction</li><li>Topology a</li></ul>	on to Probability Ja	pt 2022 - Jan 2023 In 2023 - May 2023 pt 2023 - Jan 2024 Ian 2024 - Feb 2024
Articles	"The length spectrum of random hyperbolic 3-manifolds" (2025). In: <i>Advances in Mathematics</i> 466, p. 110158. DOI: https://doi.org/10.1016/j.aim.2025.110158.	
	"The systole of random hyperbolic 3-m arXiv: 2406.11783.	anifolds" (2024). In:
Conference:	"Swiss Knots"	
University of	Geneva   Geneva, Switzerland	June 4, 2025
Institut Henr	"Higher rank geometric structures, es and physics"  i Poincaré (IHP)   Paris, France  e Géométrie et Topologie	May 22, 2025
	lathématiques de Toulouse   Toulouse,	April 15, 2025
Séminaire Géométrie Online	virtuel francophone Groupes et	Jan 30, 2025
Séminaire Analyse  Institut de recherche mathématique avancée (IRMA)   Strasbourg, France		Oct 3, 2024
Séminaire de	e <b>Géométrie</b> e <b>Université</b>   Marseille, France	June 13, 2024
	"Manifolds and groups in Bologna II"  Bologna   Bologna Italy	April 18, 2024

**Università di Bologna** | Bologna, Italy

Conference: "Knot Theory Informed by Random Models and Experimental Data"		
Banff International Research Station   Banff, Canada	April 2, 2024	
Conference: "Surfaces, Manifolds and Related Topics"		
University of Luxemburg   Luxemburg	March 20, 2024	
Graduate geometry colloquium	March 7, 2024	
ETH   Zurich, Switzerland	Walcii 7 , 2024	
Spectra and Moduli seminar	Feb 26, 2024	
Durham University   Durham, UK	160 20, 2024	
Conference: "Discrete Mathematics and Probability"		
Alfréd Rényi Institute of Mathematics   Budapest, Hun	<b>Jan 29, 2024</b> gary	
Conference: KAIST Geometric Topology Fair		
University of Busan   Busan, Corea	Jan 19, 2024	
Geometry seminar	Dog F 2022	
Universitat Autònoma de Barcelona   Barcelona, Spair	<b>Dec 5, 2023</b>	
Seminaire: "Les Probabilités de Demain"  Nov 15, 2		
Institut Henri Poincaré (IHP)   Paris, France	1404 13, 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	March 28, 2023	
University of Luxemburg   Luxemburg	March 20, 2023	
Working group: Thin groups  March 24 202		
Sorbonne Université   Paris, France	Watch 24 2023	
Séminaire de Géométrie et Combinatoire	Feb 21, 2023	
Sorbonne Université   Paris France	16021,2023	

**Sorbonne Université** | Paris, France

Conference: "Combinatorics of finite-index sub-

groups"

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, France

June 16, 2022

**SKILLS** 

Digital C++, Sagemath

Languages

• Catalan (native)

• Spanish (native)

• English (Proficient)

• French (Advanced)

Portuguese (Basic)

**OTHERS** 

**EWM** Member of the "European Women in Mathematics" associ-

ation.