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

	Teaching assistant Sorbonne Université (To BSc and MSc students in Mathematics)		2022 2024	
			2022 - 2024	
	IntroductionTopology	and Differential Calculus I on to Probability and Differential Calculus I urse: Introduction to Teichmüller theory	Sept 2022 - Jan 2023 Jan 2023 - May 2023 Sept 2023 - Jan 2024 Jan 2024 - Feb 2024	
PUBLICATIONS				
	Articles	"The length spectrum of random hy (2023). In: arXiv: 2311.04785.	perbolic 3-manifolds"	
		"The systole of random hyperbolic 3 arXiv: 2406.11783.	-manifolds" (2024). In:	
TALKS				
	Séminaire Analyse Oct 3, 2024 Institut de recherche mathématique avancée (IRMA) Strasbourg, France			
		e Géométrie e Université Marseille, France	June 13, 2024	
		: "Manifolds and groups in Bologna II" i Bologna Bologna, Italy	April 18, 2024	
	Models and	: "Knot Theory Informed by Random Experimental Data" ational Research Station Banff, Canada	April 2, 2024	
	ics"	: "Surfaces, Manifolds and Related Top- f Luxemburg Luxemburg	March 20, 2024	
		eometry colloquium h, Switzerland	March 7, 2024	
	•	Moduli seminar iversity Durham, UK	Feb 26, 2024	
	Conference ity"	: "Discrete Mathematics and Probabil-	Jan 29 2024	

Alfréd Rényi Institute of Mathematics | Budapest, Hungary

Jan 29, 2024

Conference: KAIST Geometric Topology Fair University of Busan Busan, Corea	Jan 19, 2024	
Oniversity of Busan Busan, Corea		
Geometry seminar	Dec 5, 2023	
Universitat Autònoma de Barcelona Barcelona, Spain	DCC 0, 2020	
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	April 14, 2023	
Université de Paris Est-Créteil Créteil, France	Αριιι 14, 2025	
Geometry seminar	March 20, 2022	
University of Luxemburg Luxemburg	March 28, 2023	
Working group: Thin groups	Marris 04 2022	
Sorbonne Université Paris, France	March 24 2023	
Séminaire de Géométrie et Combinatoire	E-b-24 2022	
Sorbonne Université Paris, France	Feb 21, 2023	
Conference: "Combinatorics of finite-index subgroups"		
Institut Henri Poincaré (IHP) Paris, France	Nov 2, 2022	
Conference: TSW2022	Il. 20 2022	
Georgia Tech Atlanta, UE	July 28, 2022	
Journée d'équipe ACG	luno 14, 2022	
Sorbonne Université Paris, France	June 16, 2022	

2025

Nov 15-17

 Hyperbolic manifolds, their submanifolds and fundam IMPA Rio de Janeiro, Brasil 	n ental groups Jan 6-17
	2024
Random hyperbolic surfaces and random graphs CIRM Marseille, France	Nov 25-29
	2023
GRAZP: Groups and Rigidity Around the Zimmer Prog Ventotene, Italy	gram Sept 11-16
 Durham Symposium 2023: Spectral gaps Durham University Durham, England 	Aug 7-11
• IMJ Summer school: Microlocal and probabilistic met	hods 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 Space Montevideo, Uruguay	es 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 I	Low Dimensiona
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

Digital C++, Sagemath

Languages • Catalan (native)

• Spanish (native)

• English (Proficient)

• French (Advanced)

• Portuguese (Basic)