

# ANNA

## ROIG SANCHIS

### CONTACT INFO

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### ABOUT ME

I am an associate professor (maîtresse de conférences) at Université Côte d'Azur, in Nice.  
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 behaviours of geometric invariants of random hyperbolic 3-manifolds.

### CAREER

**Associate professor** Sept 2025 - current  
*LJAD, Université Côte d'Azur | Nice*

**Post-doctoral researcher** Nov 2024 - Aug 2025  
*Max Plack Institute for Mathematics | Leipzig*

**Teaching assistant** Sept 2022 - Feb 2024  
*Sorbonne Université | Paris*

**PhD student** Oct 2021 - Oct 2024  
*IMJ-PRG, 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)** Sept 2020 - July 2021  
*Universitat Autònoma de Barcelona (UAB)*

TEACHING  
EXPERIENCE

Master in advanced Mathematics	Sept 2019 - July 2020
Universitat de Barcelona (UB)	
Bachelor in Mathematics	Sept 2015 - July 2019
Universitat de Barcelona (UB)	

	2025 - 2026
Université Côte d’Azur   BSc in Mathematics	
• Mathématiques 0	Lecturer
• Linear algebra CPES	Lecturer
• Introduction to Probability and Statistics	Teaching Assistant
	2023 - 2024
Sorbonne Université   BSc and MSc in Mathematics	
• Topology and Differential Calculus I	Teaching Assistant
• Introduction to Teichmüller theory (MSc)	Teaching Assistant
	2022 - 2023
Sorbonne Université   BSc in Mathematics	
• Topology and Differential Calculus I	Teaching Assistant
• Introduction to Probability	Teaching Assistant

PUBLICATIONS

Articles	“The length spectrum of random hyperbolic 3-manifolds” (2025). In: <i>Advances in Mathematics</i> 466, p. 110158. DOI: <a href="https://doi.org/10.1016/j.aim.2025.110158">https://doi.org/10.1016/j.aim.2025.110158</a> .
	“The systole of random hyperbolic 3-manifolds” (2024). In: arXiv: 2406.11783.

TALKS

Conference: “Swiss Knots”	June 4, 2025
University of Geneva   Geneva, Switzerland	
Conference: “Higher rank geometric structures, Higgs bundles and physics”	May 22, 2025
Institut Henri Poincaré (IHP)   Paris, France	
Séminaire de Géométrie et Topologie	April 15, 2025
Institut de Mathématiques de Toulouse   Toulouse, France	
Séminaire virtuel francophone Groupes et Géométrie	Jan 30, 2025
Online	

<b>Séminaire Analyse</b> <i>Institut de recherche mathématique avancée (IRMA)  </i> <i>Strasbourg, France</i>	Oct 3, 2024
<b>Séminaire de Géométrie</b> <i>Aix-Marseille Université   Marseille, France</i>	June 13, 2024
<b>Conference: "Manifolds and groups in Bologna II"</b> <i>Università di Bologna   Bologna, Italy</i>	April 18, 2024
<b>Conference: "Knot Theory Informed by Random Models and Experimental Data"</b> <i>Banff International Research Station   Banff, Canada</i>	April 2, 2024
<b>Conference: "Surfaces, Manifolds and Related Topics"</b> <i>University of Luxembourg   Luxembourg</i>	March 20, 2024
<b>Graduate geometry colloquium</b> <i>ETH   Zurich, Switzerland</i>	March 7, 2024
<b>Spectra and Moduli seminar</b> <i>Durham University   Durham, UK</i>	Feb 26, 2024
<b>Conference: "Discrete Mathematics and Probability"</b> <i>Alfréd Rényi Institute of Mathematics   Budapest, Hungary</i>	Jan 29, 2024
<b>Conference: KAIST Geometric Topology Fair</b> <i>University of Busan   Busan, Korea</i>	Jan 19, 2024
<b>Geometry seminar</b> <i>Universitat Autònoma de Barcelona   Barcelona, Spain</i>	Dec 5, 2023
<b>Seminaire: "Les Probabilités de Demain"</b> <i>Institut Henri Poincaré (IHP)   Paris, France</i>	Nov 15, 2023
<b>Conference: "Geometry and Probability in, on and at non-Euclidean spaces"</b> <i>C.I.R.M   Marseille, France</i>	Oct 3, 2023
<b>Colloque de Géométrie</b> <i>Université de Paris Est-Créteil   Créteil, France</i>	April 14, 2023

<b>Geometry seminar</b> <i>University of Luxembourg</i>   <i>Luxembourg</i>	<b>March 28, 2023</b>
<b>Working group: Thin groups</b> <i>Sorbonne Université</i>   <i>Paris, France</i>	<b>March 24 2023</b>
<b>Séminaire de Géométrie et Combinatoire</b> <i>Sorbonne Université</i>   <i>Paris, France</i>	<b>Feb 21, 2023</b>
<b>Conference: "Combinatorics of finite-index subgroups"</b> <i>Institut Henri Poincaré (IHP)</i>   <i>Paris, France</i>	<b>Nov 2, 2022</b>
<b>Conference: TSW2022</b> <i>Georgia Tech</i>   <i>Atlanta, UE</i>	<b>July 28, 2022</b>
<b>Journée d'équipe ACG</b> <i>Sorbonne Université</i>   <i>Paris, France</i>	<b>June 16, 2022</b>

## SKILLS

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<b>Digital</b>	C++, Sagemath
<b>Languages</b>	<ul style="list-style-type: none"> <li>• Catalan (native)</li> <li>• Spanish (native)</li> <li>• English (Proficient)</li> <li>• French (Advanced)</li> <li>• Portuguese (Basic)</li> </ul>

## OTHERS

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<b>EWM</b>	Member of the "European Women in Mathematics" association.
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