

Alejandro García Rivas

MASTER STUDENT · MATHEMATICS

Universität Bonn

✉ alexgarciarivas@hotmail.es | 🏠 agarciarivas.github.io | 📷 agarciarivas



Profile

I am a master student of Mathematics in the University of Bonn. My main interests lie in low-dimensional topology. I am currently working on my thesis on constructing exotic 4-manifolds using corks.

Education

MSc Mathematics

UNIVERSITÄT BONN

- Average grade: 1.1 in German scale (from 6.0 to 1.0)
- Master Thesis advisors: Prof. Dr. Peter Teichner and Dr. Isaac Sundberg

October 2022 - August 2024
Bonn, Germany

BSc Mathematics

UNIVERSITAT DE BARCELONA

- Average grade: 9.5 in a scale from 0 to 10
- Bachelor Thesis advisor: Dr. Ricardo García López

September 2016 - July 2022
Barcelona, Spain

BSc Physics

UNIVERSITAT DE BARCELONA

- Average grade: 9.6 in a scale from 0 to 10
- Minored in Fundamental Physics
- Bachelor Thesis advisor: Prof. Dr. Bruno Juliá-Díaz

September 2016 - February 2022
Barcelona, Spain

Teaching Experience

Winter 2023-2024 **Analysis and Geometry of Manifolds,**
Teaching Assistant (taught by Prof. Dr. Ursula Hamenstädt)

Universität
Bonn

Awards, Fellowships, & Grants

2023-2024 **Deutschlandstipendium**, Bundesministerium für Bildung und Forschung

2022 **August Palanques Award for the best academic record during the bachelor in mathematics**, Universitat de Barcelona

2016-2022 **Qualified with Honors in 38 courses** from the Double Bachelor's Degree in Mathematics and Physics of the University of Barcelona

2021-2022 **Collaboration Fellowship of the Ministry of Education**, Spanish Ministry of Education.
Title of the project: "Exotic smooth structures on spheres"

2019-2020 **Erasmus stay**, Universität Göttingen

2016 **Distinction in the University entrance examinations**, Catalan Department of Enterprise and Knowledge

Professional Experience

2022 **"La Ribera" High School**: I coached a high school team of Tamburello, Montcada i Reixac, Spain

2015-2017 **Catalan Federation of Tamburello:** I refereed official matches of the Catalan Tamburello League

Extracurricular activities and skills

CONGRESSES, CONFERENCES AND COURSES

Oct 2023	Panorama of Mathematics II , Attendance to the conference	<i>Bonn</i>
Jul 2022	Introduction to Mathematical Research Summer School , Advisor: Dr. Ignasi Mundet, Title of the project: "Morse theory, Kirby's torus trick, and triangulation of surfaces"	<i>Barcelona</i>
Jul 2019	9th International Congress on Industrial and Applied Mathematics (ICIAM) , Attendance and voluntary service	<i>València</i>
Jul 2018	From Nanoscience to Nanotechnology: lights and shadows of controlling matter at an atomic scale , Attendance to the seminar course.	<i>UIMP</i>
Aug 2017	Current cosmology: from the expansion of the Universe to gravitational waves , Attendance to the course. Lecturer: Prof. Dr. María Pilar Ruiz-Lapuente	<i>UIMP</i>

PROGRAMMING SKILLS

C • C++ • Python • LaTeX • Java

LANGUAGE SKILLS

- Catalan: Native
- Spanish: Native
- English: C1
- German: B2

ADDITIONAL ACTIVITIES

- Attendance to the Topology Oberseminar of the MPIM
- Giving private lessons of mathematics and physics to university students