

Mario Torres Danta

xxxx@xx.es
github.com/mtdanta
Seville, Spain

EDUCATION

B.Sc. in Mathematics

2023 – 2027 (Expected)

University of Seville (US), Seville, Spain

Current GPA: 8.78 / 10.0 (Top 5% of cohort; based on 16 graded courses)

ACADEMIC HONORS & DISTINCTIONS

Awarded "Matrícula de Honor" (Highest Distinction) in 5 courses:

- General Topology (10.0)
- Measure Theory & Lebesgue Integration (10.0)
- Numerical Analysis I (9.5)
- Ordinary Differential Equations (9.4)
- Probability Theory (9.4)

Additional "Sobresaliente" (A-Grade) in 5 courses (incl. Complex Analysis, Linear Algebra II, Discrete Mathematics).

RESEARCH EXPERIENCE

Undergraduate Researcher (Departmental Collaborator)

Sep 2025 - Present

Department of Geometry and Topology, University of Seville

Project: Advanced topics in Topology and Group Theory. A guided study complementing the standard undergraduate curriculum.

Supervisor: Prof. Ramón J. Flores

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Undergraduate Researcher (Departmental Collaborator)

Sep 2024 - Jun 2025

Department of Algebra, University of Seville

Project: Classification of homographies and homologies in real ($\mathbb{P}^n(\mathbb{R})$) and complex ($\mathbb{P}^n(\mathbb{C})$) projective spaces. [View Project PDF]

Supervisor: Prof. Francisco Castro Jiménez

RESEARCH INTERESTS

Algebraic Topology (Homology, Cohomology, Homotopy Theory) · Abstract Algebra (Group Theory, Ring Theory) · Topological Data Analysis (TDA)

ACADEMIC ENGAGEMENT

ByMat Conference (Bringing Young Mathematicians Together)

Nov 2025

University of Seville / RSME (Royal Spanish Mathematical Society)

Role: **Attendee.** Selected to participate in this conference for young researchers.

Highlight: Particular interest in plenary lectures by **Prof. Marithania Silvero** (Knot Theory) and **Prof. Alberto Rodríguez** (Differential Geometry/Topology), aligning with my research focus.

Independent Advanced Study

2025 – Present

Proactively self-studying Munkres, "Algebraic Topology" and Sasho, "An Illustrated Introduction to Topology and Homology".

SKILLS

- **Languages:** Spanish (Native), English (B2, C1 in preparation), French (B2)
- **Programming:** **Python** (Proficient; Certified by *Santander Open Academy*), **SageMath** (Academic use)
- **Technical:** **LAT_EX** (Primary document preparation), **GitHub** (Repository management)

References (including research supervisors) and full academic transcript available upon request.