

# MARIO TORRES DANTA

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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 (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 (Alumno Interno)

Sep 2025 - Jun 2026 (Current)

*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 (Alumno Interno)

Sep 2024 - Jun 2025

*Department of Algebra, University of Seville*

**Project:** Classification of homographies and homologies in real and complex projective spaces.  
[View Project PDF & Abstract]

**Supervisor:** Prof. Francisco Castro Jiménez

## RESEARCH INTERESTS

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

## ADVANCED INDEPENDENT STUDY

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

## SKILLS

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- **Languages:** Spanish (Native), English (B2, C1 in preparation), French (B2)
- **Programming:** **Python** (Proficient; Certified by *Santander Open Academy*), **SageMath** (Academic use)
- **Technical:** **L<sup>A</sup>T<sub>E</sub>X** (Primary document preparation), **GitHub** (Repository management)

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