MARIO TORRES DANTA

(+34) 634 460 992
martordan@alum.us.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 (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 2024 - Jun 2025*

Department of Algebra, University of Seville

Project: Classification of homographies and homologies   [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"** in preparation for advanced 4th-year electives (e.g., "Simplicial Homology").

Completed foundational self-study using **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:** LaTeX (Primary document preparation via TeXstudio), **GitHub** (Repository management)

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