Name Surname

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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 (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.

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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: LaTeX** (Primary document preparation), **GitHub** (Repository management)

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