

# Daniel Díaz Quílez

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Languages: Spanish (native), English (fluent)

## Education

### MSc in Mathematics and Statistics

*Sept 2024 – May 2026*

*University of Helsinki, Finland*

- Thesis: [Simple Geometry without Coordinates](#) (Model Theory). Advisor: Tapani Hyttinen.

### BSc in Mathematics and Computer Science

*Sept 2018 – June 2022*

*Universidad Politécnica de Madrid, Spain*

- Thesis: [Projective and Plane Curves](#) (Algebraic Geometry). Advisor: Alfonso Zamora.

### BSc Exchange Year — Machine Learning, Systems, and Control

*Aug 2021 – June 2022*

*Lund University, Sweden*

- Final project: [Predicting a Subject's Card with the Muse-S headband](#).

## Publications

- D. Díaz Quílez, T. Lehtonen. [Abductive Explanations for Groups of Similar Samples](#). *Preprint*, 2026.
- M. Klang, D. Díaz Quílez, D. Medved, P. Nugues, J. Nilsson. [Using Operative Reports to Predict Heart Transplantation Survival](#). *IEEE Engineering in Medicine & Biology Society (EMBC)*, 2022.

## Academic Experience

### Research Assistant — Logic and Machine Learning

*May 2025 – Sept 2025*

*Aalto University, Finland*

- Researching SAT-based explanations for neural networks (preprint above). Advisor: Tuomo Lehtonen.

### Teaching Assistant

*Jan 2025 – May 2026*

*University of Helsinki, Finland*

- Basics of Mathematics in Machine Learning I.
- Basics of Mathematics in Machine Learning II (two iterations; gave two lectures).
- Computer & Internet (two iterations).

### Teaching Assistant

*Sept 2021 – June 2022*

*Lund University, Sweden*

- Computational Programming with Python (two iterations).

## Professional Experience

### Machine Learning Engineer

*May 2025 – Aug 2025*

*Trado Capital, Finland*

- Led a two-person team building a Python ML pipeline (primarily gradient boosting) to identify real estate investment opportunities in Finland.

### Robotics Software Engineer

*Aug 2023 – Aug 2024*

*eProsima, Spain*

- C++ contributor to [Fast-DDS](#), the default open-source middleware for ROS 2.