F. Javier Rodríguez Martínez

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🌐 My Website

🎓 Education

Universitat Politécnica de Catalunya (UPC) — 2021 – 2025
Degree in Mathematics — *Barcelona, Spain*

Universitat Politécnica de Catalunya (MESIO UPC-UB Summer School) — July 2023
Course "Applied Machine learning to solve real life problems" — *Barcelona, Spain*

La Farga — 2019 – 2021
Spanish Baccalaureate, graduated with honors — *Sant Cugat del Vallès, Spain*

🌐 Experience/Programs and grants

IDIBAPS Brain Circuits and Behavior Lab — July 2024 – Present
Research Internship
> Conducted experiments on working memory and statistical analysis of the resulting data in R and Python.
> Development of a neural circuit model to explain multi-choice decision making.

Youth and Science (Fundació Catalunya La Pedrera) — June 2019 – September 2022
Molecular Biology program and grant
> Participated at the programme Youth and Science, managed by Fundació Catalunya La Pedrera and funded to participate in LIYSF and "Introduction to image compression" programs

London International Youth Science Forum (LIYSF) — August 2022
Attendant to the Forum — *London, UK*
> A 15-day science program held at Imperial College London and Royal Geographical Society with participants from more than 70 countries.

Institut de Ciències Fotòniques (ICFO) — July 2021
"Introduction to image compression" course — *Castelldefels, Spain*
> Course on image compression algorithms and information theory.

Universitat Internacional de Catalunya (UIC) — September. 2019 – November 2020
Lab Assistant in Laboratory of Basic Science — *Sant Cugat del Vallès, Spain*
> Developed a molecular biology research project parallel to one of the groups in the laboratory.

⚗ Projects and awards

> **Best Poster (Session 1)** Barcelona Computational, Cognitive and Systems Neuroscience meeting (2025)
> Won the subcategory Facultat de Matemàtiques i Estadística (FME-UPC) prize in a competition of **mathematical education videos** organized by Numerical Factory. (Video) (2023)
> Classified for the **Spanish Biology Olympiad** (2021)

👥 Volunteering

Judge in local robotics competition
Worked as a judge and organizer in robotics competitions held in my school.

Elderly and poor care
Volunteer in elder home at Sant Cugat visiting the residents. Participated in a Christmas Food Collection in my school and the later delivery to people in need at Raval, Barcelona.

⚙ Skills

Languages Spanish (Native), Catalan (Native), English (Cambridge Advanced C1), French (A1, currently studying)
Programming C++ (Intermediate), Python (Intermediate), R (Intermediate), Julia (Basic), AMPL (Basic)