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# JOAN SAURINA I RICÓS

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## EDUCATION

**Polytechnic University of Catalonia (UPC) | BSE in Artificial Intelligence**

Barcelona, ES | Sep 2021 - Dec 2025

Exchange semesters at **Technical University of Denmark** (Fall 2024) and at **Stanford University** (Fall 2025).

## RELEVANT EXPERIENCE

**European Bioinformatics Institute (EMBL-EBI) | Research Intern**

Cambridge, UK | Jan 2026 - Jul 2026

Advisor: Dr. Jessica Ewald. Research on deep learning applications in drug toxicity.

- Apply large language models (LLMs) to extract toxicity information from unstructured text.
- Design predictive models using Cell Painting data.

**Stanford University | Research Assistant**

Stanford, USA | Oct 2023 - Dec 2025

Advisor: Prof. Alexander Ioannidis. Research on deep learning, population genetics, and precision health.

- Conducting research on novel applications of deep learning in population genetics to unravel complex biological patterns.
- Developing architectures to analyze genomic data for precision health applications.

**Barcelona Supercomputing Center (BSC) | Undergraduate Researcher**

Barcelona, ES | Feb 2025 - Jun 2025

Advisor: Dr. David Torrents. Research on artificial intelligence methods for disease prediction.

- Applying artificial intelligence to disease prediction using deep learning architectures on large-scale genomic data.
- Leveraging High-Performance Computing (HPC) environments to process biological datasets efficiently.

**Institute of Industrial and Control Engineering (IOC) | Research Assistant**

Barcelona, ES | Feb 2024 - Jul 2024

Advisor: Dr. Isiah Zaplana. Research on deep learning methods for robotic perception.

- Developed deep learning models applied to object recognition and pose estimation.
- Implemented computer vision algorithms to enhance robotic perception in unstructured environments.

## SELECTED TALKS

**EU Ocean Days – Youth Policy Dialogue | Speaker**

Brussels, BE | Mar 2025

- Represented EU youth and spoke with Commissioner Kostas Kadis on AI in marine ecosystems, fisheries, and its links to inclusion and environmental justice.

## SKILLS & TECHNOLOGIES

- **Programming:** Python, R, C++, SQL, MATLAB and Bash.
- **Machine Learning:** PyTorch, Scikit-learn, Pandas, NumPy and Computer Vision.
- **HPC & Tools:** MPI, OpenMP, Slurm, GitHub, Docker, LaTeX and GNU/Linux.

## LANGUAGES

- Catalan (native)
- Spanish (native)
- English (fluent, Cambridge English: Advanced – CAE, 197/210)
- French (basic, DELF A2)