
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. Conducting 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. Conducted research on deep learning, population genetics, and precision health.

- Investigated novel applications of deep learning in population genetics to unravel complex biological patterns.
- Developed 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. Conducted research on artificial intelligence methods for disease prediction.

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

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

Barcelona, ES | Feb 2024 - Jul 2024

Advisor: Prof. Isiah Zaplana. Conducted research on deep learning methods for robotic perception.

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

PUBLICATIONS

- **J. Saurina-i-Ricós, . . . , A. Ioannidis.** “ADAMIXTURE: Adaptive First-Order Optimization for Biobank-Scale Genetic Clustering”. Submitted to ISMB 2026. Washington, DC, USA | Jul 2026.

TALKS

- **EU Ocean Days – Youth Policy Dialogue.** Speaker. Represented EU youth and spoke with Commissioner Kostas Kadis on AI in marine ecosystems, fisheries, and its links to inclusion and environmental justice. Brussels, BE | Mar 2025.

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)