



CRISTIAN TATU

COMPUTER SCIENTIST

+34 642 996 785

cristian.cat.tatu@gmail.com

<https://www.linkedin.com/in/ctatu/>

WORK EXPERIENCE

(2021- Present)

Research Engineer

Barcelona Supercomputing Center

- Publishing and presenting papers in multiple international conferences
- Maintaining distributed machine learning library (dislib)
- Developing GPU Cache support for multi-node cluster execution
- Development and validation of machine learning models
- Implementing distributed scientific algorithms
- Big data analytics
- Distributed deep learning training

(2020-2021)

R&D Intern

Ericsson

EDUCATION

Master's Module in Software Design (2020-2021)

UNIVERSIDAD POLITECNICA DE MADRID

- Modular Design
- Object-Oriented Design
- Design Patterns
- Software Architecture

COMPUTER SCIENCE (2016 - 2020)

UNIVERSIDAD AUTONOMA DE MADRID

LANGUAGES



Spanish

Native



English

Proficient



Romanian

Native

PROJECTS

- Full Stack Mobile App for Transportation Company (including analytics)
La Central Del Transportista
- Conditional Generation on Neural Implicit Networks
Personal Project
(May 2025 - Present)
- Deep Neural Network for voice classification
Personal Project
(Mar 2025 - May 2025)
- Workflow Orchestration for CFD Reinforcement Learning
Barcelona Supercomputing Center
(Nov 2024 - Feb 2025)
- GPU Cache for Distributed Computing Framework
Barcelona Supercomputing Center
(Jan 2024 - Aug 2024)
- Distributed Matrix Decomposition for CFD data
Barcelona Supercomputing Center
(Jan 2023 - Jan 2024)

PUBLICATIONS

- Parallel reduced-order modeling for digital twins using high-performance computing workflows
Science Direct - (Sep 2025)
- GPU Cache System for COMPSs: A Task-Based Distributed Computing Framework
Springer - (Aug 2024)
- Scalable Random Forest with Data Parallel Computing
Springer - (Aug 2023)

SKILLS & SOFTWARE

Public Speaking, Team Planning, Programming, Software Development, Research, Data Analysis, Software Architecture, Modular Design, Academic Writing, Software Optimization, Python, Java, TensorFlow, PyTorch, scikit-learn, Keras, Docker, Flask Framework, Jupyter Notebook, SQL, PostgreSQL, REST, API, Deep Learning, Machine Learning