Miquel Sirera Perelló

Ph.D. STUDENT

Boston, Massachusetts

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Education ____

Northeastern University

Boston, Massachusetts

Ph.D. Student in Computer Engineering - Current

Jan 2024 - Dec 2028

- Research Interests: Machine Learning, Large Language Models, Distributed Training/Inference, Wireless Communications
- Advisor: co-advised by Prof. Stratis Ioannidis and Prof. Kaushik Chowdhury

Northeastern University

Boston, Massachusetts

MSc degree in Electrical and Computer Engineering - Current

Jan 2024 - Dec 2026

• Concentration: Computer Vision, Machine Learning and Algorithms

Universitat Politècnica de Catalunya

Barcelona, Spain

BSC IN DATA SCIENCE AND ENGINEERING

Sept 2019 - July 2023

- Graduated with a GPA of 8.89/10
- Relevant coursework: Algorithmics, Object-Oriented Programming, Artificial Intelligence, Databases, Computer Architecture
- Received honors in four courses: Discrete Mathematics and Logic, Mathematical Optimization, Search and Analysis of Information, and Advanced Topics of Data Science

La Salle Bonanova Barcelona, Spain

HIGH SCHOOL DIPLOMA

Sept 2017 - June 2019

- Graduated with honors, achieving a score of 13.556/14 in the university entrance exams (PAU), earning the PAU distinction
- Participated in math contests such as Pangea and Fem Matemàtiques
- Engaged in advanced enrichment math classes

Experience ____

GENESYS Lab, Northeastern University

Boston, Massachusetts

Undergraduate Researcher

Feb 2023 - July 2023

- Bachelor's thesis in the GENESYS lab under the supervision of Prof. Kaushik Chowdhury
- The project focused on developing Al-driven approaches in the realm of signal classification for wireless communications

Abi Global Health Barcelona, Spain

AI ENGINEER INTERN

Mar 2022 - Dec 2022

- Enhanced monitoring capabilities within the MLOps framework
- Supported the AI Lab by developing new **machine learning models** and refining existing solutions

Programs ____

Naptilus Tech Lab

Barcelona, Spain

- BECO: A Tool to Boost Environmentally Conscious Decisions Feb 2022 - June 2022 • Developed a software solution addressing the challenge of leveraging extensive user data to mitigate individual carbon foot-
- prints • Created "BECO," an innovative application using advanced machine learning techniques to guide users towards environmentally conscious establishments

Fundació Catalunva La Pedrera

Barcelona, Spain

CRAZY ABOUT MATHEMATICS

Jan 2018 - Dec 2018

One-year course for A-level Science and Technology students with a special interest and talent for mathematics

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Publication	ons
Published	
Miquel S	oint Large Language Models on Radio VLANs for Intelligent Services Birera Perelló, Joshua Groen, Wan Liu, Stratis Ioannidis, Kaushik Chowdhury COM 2024
Mauro B Chowdh	nsformer-based Protocol Identification for Machine-learning at the Edge elgiovine, Joshua Groen, Miquel Sirera Perelló , Chinenye Tassie, Sage Trudeau, Stratis Ioannidis, Kaushik ury OCOM 2024
	Machine Learning in 5G with Analysis of Traffic in Open Radio Access Networks elgiovine, Jerry Gu, Joshua Groen, Miquel Sirera Perelló , Utku Demir, Kaushik Chowdhury <i>4</i>
Miquel S	ng for Wireless Communications Sirera Perelló, Kaushik Chowdhury, Albert Cabellos-Aparicio Thesis, 2023
In Review	
	Processes for Pixel-wise Regression i Shi, Gözde Özcan, Miquel Sirera Perelló , Stratis Ioannidis
Honors a	nd Awards
June 2019	PAU Distinction , Government of Catalonia Awarded for achieving a score above 9 out of 10 in the university entrance exams (PAU)
Extracurr	cular
2021-2024 P	articipant, Datathons and Hackathons
P	articipated in programming competitions including the UPC Datathon and the Google Hash Code on two occasions panish Teacher , SpainBCN-Programs
	aught Spanish to foreign students during two summer programs, engaging with individuals from diverse cultural backgrounds blunteer , Community Service
	olunteered at a residence for the elderly with La Congregación de las Hermanitas de los Pobres and assisted elderly and disable
	ssistant Coach, La Salle Bonanova erved as a soccer assistant coach for young boys over two seasons, fostering teamwork and sportsmanship
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Skills	

Programming Languages: Python, C++, R, SQL, MATLAB, Java, AMPL

Tools/Platforms: Git, Linux, MLOps frameworks

Soft Skills: Critical thinking, Problem-solving, Collaboration, Fast learning, Adaptability, Time management, Organization

Languages: Catalan (Native), Spanish (Native), English (Proficient)