

Eduardo Santos Escriche

eduardo.santos-escriche@tum.de

<https://github.com/sanesedu>

<https://www.linkedin.com/in/eduardo-santos-escriche/>

Formal Education

- PhD candidate** – *Technical University of Munich, Munich Center for Machine Learning* 2024–
— Research interests: *Geometric Deep Learning, AI4Science, Graph Neural Networks*
— ELLIS PhD student
— Primary advisor: Stefanie Jegelka (*TUM* and *MIT*)
— Secondary advisor: Pietro Liò (*University of Cambridge*)
- MSc Machine Learning** – *KTH Royal Institute of Technology* 2022–2024
— Final grade: 4.9/5
— Master's thesis: *Channel-Centric Spatio-Temporal Graph Networks for Network-based Intrusion Detection* ([link](#))
— Resulted in publication [[1](#)]
- BSc Informatics Engineering (Computer Science track)** – *Universitat Politècnica de València (UPV)* 2018–2022
— High Academic Performance group, Final grade: 9.9/10
— Bachelor's thesis: *Tracking of UAVs using Kalman Filters and Deep Learning* ([link](#))

Further Education

- Munich Institute for Astro-, Particle and Bio Physics (MIAPbP)**
— Build Big or Build Smart workshop: *Examining Scale and Domain Knowledge in ML for Fundamental Physics* Aug-Sep 2025
- London Geometry and Machine Learning**
— LOGML Summer School 2025 Jul 2025
- Norwegian Open AI Lab, Norwegian University of Science and Technology**
— Nordic Probabilistic AI School Jun 2023
- IBM Quantum**
— Qiskit Global Summer School on Quantum Simulation Aug 2022
— Qiskit Global Summer School on Quantum Machine Learning Aug 2021
— Qiskit Global Summer School Aug 2020
- University of Porto, Polytechnic Institute of Porto**
— Summer School on Machine Learning and Big Data with Quantum Computing Sep 2020

Experience

- Research Assistant** – *Division of Robotics, Perception and Learning (KTH)* Jun 2023–Aug 2023
— Digital Futures Summer Research Internship Programme
— Project: *Wildfire Progression Monitoring with Deep Learning using a Multi-Source Dataset*
— Investigated state-of-the-art Computer Vision models, such as Vision Transformer and ConvNeXt V2
— Evaluated self-supervised learning mechanisms for classification and segmentation tasks
- Research Intern** – *Algorithm Lab (Huawei Stockholm Research Center)* Oct 2021–Jul 2022
— Investigated state-of-the-art mechanisms for time series forecasting
— Implemented and evaluated machine learning models and traditional forecasting methods for cellular traffic prediction
— Resulted in publication [[2](#)]
- Research Assistant** – *Department of Computer Systems and Computation (UPV)* Oct 2021–Jul 2022
— Collaboration Scholarship from the Spanish Ministry of Education and Vocational Training
— Project: *Modeling of Unmanned Aerial Vehicle behaviour.*
- President and co-founder** – *Competitive Programming UPV* Nov 2020–Sep 2022
— Student association aiming to improve the capabilities of its members in competitive programming
- Student collaborator** – *ICTvsCC research group (UPV)* Dec 2018–Mar 2020
— ICTvsCC: *Information and Communication Technologies against Climate Change*
— Hypervisor installation and configuration, configuration of pfSense and OpenVPN, and data visualization

Publications

- [[1](#)] **Eduardo Santos Escriche**, Jakob Nyberg, Yeongwoo Kim, and György Dán. **Channel-Centric Spatio-Temporal Graph Networks for Network-based Intrusion Detection**. In *2024 IEEE Conference on Communications and Network Security (CNS)*, pages 1–9. IEEE, 2024 ([link](#))
- [[2](#)] **Eduardo Santos Escriche**, Stavroula Vassaki, and Gunnar Peters. **A comparative study of cellular traffic prediction mechanisms**. *Wireless Networks, Springer*, pages 1–19, 2023 ([link](#))

Technical Skills

- **Competitive Programming:** [Codeforces](#), [HackerRank](#), [UVa OnlineJudge](#), [¡Acepta el reto!](#)
- **Programming Languages:** Python, C++, Java, JavaScript, C, Octave, Mathematica
- **Machine Learning frameworks:** PyTorch, Keras, Jax

Honors and Awards

- Universitat Politècnica de València (School of Informatics)**
- Extraordinary End of Degree Award to Best Academic Record in Engineering and Architecture (Valencian Region) Jun 2023
 - Award to the Best Student UPV by the Social Council of the UPV Jun 2023
 - Award to Student with Best Academic Record among Graduates Jun 2023
 - Award to Student with Best Academic Record 4th year Jun 2023
 - Award to Student with Best Academic Record 3rd year Jun 2022
 - Award to Student with Best Academic Record 2nd year Jun 2021

- Award to Student with Best Academic Record 1st year *Jun 2021*
- 1st Place in the XV Local Programming Contest *May 2021*
- Award to Student with Best Marks on Admission *Jun 2019*
- 5th Place in the XIV Local Programming Contest *May 2019*

Southwestern Europe Regional Contest (ACM-ICPC)

- Honorable mention SWERC 2021-2022 *Apr 2022*
- Honorable mention SWERC 2020-2021 *Mar 2021*
- Honorable mention SWERC 2019-2020 *Jan 2020*

AdaByron University Programming Contest

- 1st Place in the 2022 Valencian Region Contest *Feb 2022*
- 1st Place in the 2020 Valencian Region Contest *Feb 2020*

Languages

Spanish: Native

English: C1

Valencian: C1

French: A2

Chinese: HSK3

Swedish: B1 (SFI D)

German: B1