

David Pujol Perich

Machine Learning Researcher

Motivated Master Student in CS interested in doing research in cutting-edge Deep Learning and Reinforcement Learning



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WORK EXPERIENCE

Machine Learning Researcher EPFL, Switzerland

08/2021 - Present

Switzerland

LIONS (EPFL)

Achievements/Tasks

- Working on devising linearised attention mechanisms.

Machine Learning Researcher Barcelona Neural Networking Center

01/2020 - 08/2021

Barcelona

Research Laboratory from Polytechnic University of Catalonia

Achievements/Tasks

- Developed a novel framework for fast prototyping of Graph Neural Networks, called IGNNITION, which became a European Project (<https://ignnition.net>)
- Explored the interpretability of GNNs
- Proposed a novel GNN-based Intrusion Detection System

EDUCATION

Master Degree in CS EPFL, Switzerland

08/2021 - 07/2022

Courses

- PhD-level courses on Deep Learning
- Doing a research project at EPFL

Master Degree in research and innovation of CS

Polytechnic University of Catalonia, Spain

08/2020 - 07/2021

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Courses

- Artificial Intelligence
- Algorithms

Bachelor Degree in CS ETH, Switzerland

08/2019 - 02/2020

Courses

- Master-level courses in ML

Bachelor Degree in CS Polytechnic University of Catalonia, Spain

08/2016 - 07/2020

8/10

Additional information

- National scholarship for students with excellent academic record
- Focus on algorithms and theoretical CS

SKILLS

Deep learning

Reinforcement Learning

Graph Neural Networks

TensorFlow

PyTorch

Leadership

Team worker

Communication

SELECTED PUBLICATIONS

"IGNNITION: Fast prototyping of graph neural networks for communication networks", SIGCOMM '21

"Unveiling the potential of Graph Neural Networks for Robust Intrusion Detection", WAIN '21

"IGNNITION: Bridging the Gap Between Graph Neural Networks and Networking Systems", IEEE Network '21

"The Graph Neural Networking Challenge: A Worldwide Competition for Education in AI/ML for Networks", ACM SIGCOMM '21

"NetXplain: Real-time explainability of Graph Neural Networks applied to networking", ITU Journal

ACHIEVEMENTS AND CERTIFICATES

3rd prize in the Student Research Competition organized by SIGCOMM '21 (sponsored by Microsoft)

Awarded as the second-best Bachelor Thesis of my faculty (2020)

1st prize in RareHacks with a chatbot to help patients with pediatric cancer (2019)

Machine Learning course, Stanford University (2018)

Reinforcement Learning speciality, Alberta University (2020)

LANGUAGES

Catalan
Native or Bilingual Proficiency

Spanish
Native or Bilingual Proficiency

English
Native or Bilingual Proficiency

German
Professional Working Proficiency

French
Limited Working Proficiency

Italian
Elementary Proficiency