

David Pujol Perich

Machine Learning Researcher

Motivated PhD Student in CS interested in doing research in cutting-edge Deep Learning



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WORK EXPERIENCE

Semester Project and Master Thesis EPFL, Switzerland

08/2021 - 08/2022 Switzerland
LIONS (EPFL)

Achievements/Tasks

- Working on devising efficient attention mechanisms

Machine Learning Researcher Barcelona Neural Networking Center

01/2020 - 08/2021 Barcelona, Spain
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

PhD in Machine Learning Universitat de Barcelona

08/2022 - Present Barcelona, Spain

Description

- Carrying out a PhD on the application of state-of-the-art DL methods for Video Understanding tasks

Master Degree in research and innovation of CS

UPC, Spain and EPFL, Switzerland 9/10
08/2020 - 07/2022

Courses

- Artificial Intelligence
- Algorithms
- Honors in a Master Thesis on the understanding of efficient Transformers

Bachelor Degree in CS UPC, Spain and ETH, Switzerland

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

Computer Vision

Transformers

Graph Neural Networks

Leadership

Team worker

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

CVPR 2023 and IJLR 2023 reviewer

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)

Recipient of the scholarship "Beca d'iniciació a la recerca" (01/2020 - 09/2021)

LANGUAGES

Catalan
Native or Bilingual Proficiency

Spanish
Native or Bilingual Proficiency

English
Native or Bilingual Proficiency

German
Limited Working Proficiency

French
Limited Working Proficiency

Italian
Elementary Proficiency