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- Italian
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LANGUAGES

Italian (Native)

English (Professional)

French (Basic)

Spanish (Basic)

About Me

I am a Ph.D. student at the Graph Machine Learning Group, within the Swiss AI lab IDSIA, at Università della Svizzera italiana (USI), under the supervision of Prof. Cesare Alippi.

My research focuses on **graph deep learning** for **irregular spatiotemporal data**. Currently, I'm studying the problems of **imputation**, **regularization**, and **prediction** of data coming from both physical and virtual **sensor networks**.

I obtained BSc (2017) and MSc (2020) degrees in Computer Science and Engineering at Politecnico di Milano. My master thesis project has been supervised by Prof. Nicola Gatti.

Education

Ph.D. Student in Informatics Università della Svizzera italiana

2020 — ongoing

Currently, I am a Ph.D. Student at the Swiss AI Lab IDSIA at USI Università della Svizzera Italiana, under the supervision of prof. Cesare Alippi.

MSc in Computer Science and Engineering

2017 - 2020

Politecnico di Milano

Master's degree with honors (110/110L), defending a thesis on machine learning. During the two years of studies, I mostly attended AI-oriented courses.

Erasmus Sep 2018 — Jan 2019

Universitat Politècnica de València

During the semester spent abroad (in Valencia) within the Erasmus program, I attended Spanish and English courses on programming, robotics and artificial intelligence.

BSc in Engineering of Computing Systems Politecnico di Milano

2014 — 2017

The course program covered general topics of engineering and computer science.

High School in Mathematics

2009 — 2014

Liceo C. Caminiti

High school diploma with a specific focus in mathematics and science at *Liceo Scientifico Caminiti* in Santa Teresa di Riva (Sicily).

Academic Activities

Teaching

Advanced Topics in Machine Learning, MSc at USI
 Teaching assistant, involved in course organization, lecture preparation and students tutoring.

• **Graph Deep Learning**, MSc at USI

Lectures design and students tutoring on team projects.

Feb 2023 — Jun 2023

Advanced Topics in Machine Learning, MSc at USI
 Students tutoring for projects on reproducibility.

• **Graph Deep Learning**, MSc at USI
I gave a lecture on Spatiotemporal Graph Neural Networks and tutored students on projects.

Introduzione all'Intelligenza Artificiale e ML, MSc at USI
 Course on Al and ML delivered in italian for the training of high school teachers qualified to teach computer science as a subject.

Machine Learning, BSc at USI
 Lab sessions on practical aspects and show how to design machine learning solutions to real-world problems.

Supervised students

Marco Latella, MSc at USI
 Graph Representation Learning for Multi-site Photovoltaic Energy Production

Talks

Tutorial at ECML/PKDD (Turin)
 Presentation of the tutorial Graph Deep Learning for Spatiotemporal Time Series with colleagues Daniele Zambon and Andrea Cini.

Reading group presentation at TGL reading group (Virtual)
 Invited to present the paper Scalable Spatiotemporal Graph Neural Networks at the Temporal Graph Learning Reading Group.

Spotlight presentation at TGL Workshop (New Orleans)
 The Temporal Graph Learning Workshop at NeurIPS 2022.

 Poster presentation at NeurIPS (New Orleans)
 The 36th Conference on Neural Information Processing Systems.

 Invited talk at Baker Hughes (Virtual)
 Invited to give a webinar on time series imputation.

 Poster presentation at ICLR (Virtual)
 The 10th International Conference on Learning Representations.

 Abstract presentation at MLDM (Virtual)
 The 10th Italian Workshop on Machine Learning and Data Mining.

Awards & Scholarships

•	Best Paper Award — Temporal Graph Learning Workshop @ NeurIPS For the paper "Scalable Spatiotemporal Graph Neural Networks".	Dec 2022
-	Travel Award — NeurIPS Travel award to attend the NeurIPS conference in New Orleans (US).	Nov 2022
•	Scholarship — National Association SAPAR Scholarship awarded to top 4 STEM students.	2019
	Scholarship — Politecnico di Milano	2019

Projects

I believe in worldwide accessibility of science. As such, I make the software I develop for my research publicly available through my GitHub page. You can also find the code related to my publications on the GitHub page of Graph Machine Learning Group.



Torch Spatiotemporal (**TSL**) is a library built upon PyTorch and PyG for neural spatiotemporal data processing, with a focus on Graph Neural Networks.

Reduced tuition for high merits.

Other projects

■ **GraPV** Sep 2020 — Feb 2023

Developing of graph-based methods for multi-site photovoltaic power forecasting, to improve accuracy on portfolio production prediction. The solution is based on novel graph-based AI strategies exploiting existing heterogeneous information and related dependencies. Joint project in collaboration with DXT Commodities, funded by Innosuisse.