

EDUCATION	University of Trento	Trento, Italy
	<i>Ph.D. in Artificial Intelligence and Machine Learning</i>	2022 - 2025 (expected)
	<ul style="list-style-type: none"> • Research: Graph Neural Networks, Missing Data, Relational Learning 	
	University of Trento	Trento, Italy
	<i>M.Sc. in Machine Learning</i>	2020 - 2022
	<ul style="list-style-type: none"> • Thesis: Learning on multi-relational graphs 	
	University of Verona	Italy
	<i>B.Sc. in Computer Science</i>	2016 - 2020
	<ul style="list-style-type: none"> • Thesis: Robot planning in unknown scenario 	
EXPERIENCES	Artificial Intelligence Research Center, AIST	Tokyo, Japan
	<i>Research internship</i>	2025
	<ul style="list-style-type: none"> • Topic: Learning on graphs with missing features / incomplete data 	
	Aalborg University	Aalborg, Denmark
	<i>M.Sc. research internship</i>	2022
	<ul style="list-style-type: none"> • Topic: Benchmarking and profiling of multi-relational GNN models 	
PUBLICATIONS	1. Francesco Ferrini , Veronica Lachi, Antonio Longa, Bruno Lepri, Xin Liu, Andrea Passerini, Manfred Jaeger. Beyond Sparse Benchmarks: Evaluating GNNs with Realistic Missing Features. <i>NeurIPS NPGML Workshop</i> , 2025.	
	2. Francesco Ferrini* , Veronica Lachi*, Antonio Longa, Bruno Lepri, Andrea Passerini. GNNs Meet Sequence Models Along the Shortest-Path: an Expressive Method for Link Prediction. <i>NeurIPS NPGML Workshop</i> , 2025.	
	3. Francesco Ferrini* , Veronica Lachi*, Antonio Longa, Bruno Lepri, Xin Liu, Andrea Passerini, Manfred Jaeger. Bridging Theory and Practice in Link Representation with Graph Neural Networks. <i>NeurIPS</i> , 2025.	
	4. Francesco Ferrini , Antonio Longa, Andrea Passerini, Manfred Jaeger. A Self-Explainable Heterogeneous GNN for Relational Deep Learning. <i>TMLR</i> , 2025.	
	5. Veronica Lachi, Francesco Ferrini , Antonio Longa, Bruno Lepri, Andrea Passerini. A simple and expressive graph neural network based method for structural link representation. <i>ICML Workshop</i> , 2024.	
	6. Francesco Ferrini , Antonio Longa, Bruno Lepri, Andrea Passerini. Meta-Path Learning for Multi-relational Graph Neural Networks. <i>LOG</i> , 2023.	
	7. Francesco Ferrini , Antonio Longa, Bruno Lepri, Andrea Passerini. Energy-efficient inference on the edge exploiting TinyML capabilities for UAVs. <i>MDPI, Drones</i> , 2021.	
TECHNICAL SKILLS	Programming Languages: Python (advanced), scientific libraries (NumPy, Pandas, SciPy)	
	Deep Learning Frameworks: PyTorch (custom models, GNNs, sequence models), PyTorch Geometric, DGL	
	Profiling and Optimization: PyTorch Profiler, TensorBoard; performance and memory analysis of GNNs and sequence models	
	Benchmarking and Synthetic Datasets: Benchmark design for GNNs on real and synthetic data; generation and usage of synthetic datasets for controlled experiments	
	Machine Learning and AI: Graph Neural Networks, sequence models (GRU, LSTM, Transformer), missing data imputation, fairness and robustness	

ACTIVITIES	<ul style="list-style-type: none"> • Conference Reviewer: ICLR 2026, aaai 2025, ICML 2025, ICLR 2024, , LOG 2023, LOG 2024) • Program Committee, LOG (2025) — Reviewing Chair for Learning On Graphs Conference 2025 • Oxford Machine Learning Summer School, Oxford, UK — Representation Learning and Generative AI (2024) • Oral at LOG Conference, LOG (2023) — Oral presentation of Meta-Path Learning for Multi-relational Graph Neural Networks • Heterogeneous Graph Learning tutorial, Alan Turing Institute (2023) — Hands on tutorial on heterogeneous graph learning • Organizer, LOG Meetup Trento (2023) — Organized the 4-day Italian LOG event in Trento
AWARDS AND HONORS	<ul style="list-style-type: none"> • Top Reviewer Award, Learning on Graphs Conference 2024
ACADEMIC SERVICES	<p>Reviewer for: ICML, ICLR, AAAI, LOG</p>