

Steve Azzolin

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Education

University of Trento

M.S. IN ARTIFICIAL INTELLIGENCE SYSTEMS

Trento, Italy

Sept. 2020 - Curr.

- Ranking: Top 2%
- Average grade: 29.8/30

University of Trento

B.S. IN COMPUTER SCIENCE

Trento, Italy

Sept. 2017 - Jul. 2020

- Final score: 110/110 cum laude
- Thesis: Unsupervised learning for customer segmentation and its **interpretability**

Research Experience

Structured Machine Learning Lab

RESEARCH INTERN

Trento, Italy

Oct. 2022 - Curr.

- Benchmarked and categorized several SOTA tools for GNN Explainability

AI Lab @ University of Cambridge

RESEARCH VISITING STUDENT

Cambridge, UK

March. 2022 - Sept. 2022

- MSc Thesis titled "Global Explainability of GNNs via Logic Combination of Learned Concepts"
- Proposed the first Global Explainer for GNNs able to provide explanations in terms of **logic formulas** and faithful to the domain of the input data

Signals & Interactive Systems Lab

RESEARCH INTERN

Trento, Italy

Feb. 2020 - Jan. 2022

- Tested, developed, and analyzed **Deep Sentiment Analyzer** for Italian corpora
- Improved the state-of-the-art for the Italian language from 0.64 to 0.69 of F1 score

Blue Reply

MACHINE LEARNING INTERN

Padova, Italy

Feb. 2020 - Jun. 2020

- Applied and optimized **Unsupervised ML** techniques for customer segmentation

Publications

- **Azzolin S.**, Longa A., Barbiero P., Liò P., Passerini A. "Global Explainability of GNNs via Logic Combination of Learned Concepts". ICLR 2023
- **Azzolin S.**, Longa A., Barbiero P., Liò P., Passerini A. "Global Explainability of GNNs via Logic Combination of Learned Concepts". LOG 2022, Extended Abstract
- Longa A., **Azzolin S.**, Santin G., Cencetti G., Liò P., Lepri B., Passerini A. "Explaining the Explainers in Graph Neural Networks: A Comparative Study". ACM Computing Surveys (Under Review)
- Roccabruna G., **Azzolin S.**, Riccardi G. "Multi-source Multi-domain Sentiment Analysis with BERT-based Models". LREC 2022
- Mousavi S., Roccabruna G., Tammewar A., **Azzolin S.**, Giuseppe Riccardi "Can Emotion Carriers Explain Automatic Sentiment Prediction? A Study on Personal Narratives". WASSA @ ACL 2022

Talks

Cambridge Talks 2022

Virtual

- Presented the work *Global Explainability of GNNs via Logic Combination of Learned Concepts*

24 Nov. 2022

Networks

Nova Talent

MENTEE

Jul. 2022 - Curr.

- Nova is the merit-based access network where the top 3% of talent connect with each other, develop and accelerate their careers

Lead the Future

MENTEE

Sep. 2021 - Curr.

- LeadTheFuture is a leading mentorship non-profit organization for students in STEM, with an acceptance rate below 20, empowering top performing students to achieve their goals and contribute to their communities

Extracurricular Training

Cambridge ELLIS Machine Learning Summer School

ATTENDEE

July, 2022

Eastern European Machine Learning Summer School

ATTENDEE

July, 2022

Serbian Machine Learning Workshop

ATTENDEE

May, 2022

CMMRS 2021

ATTENDEE

Aug. 2021

Honors & Awards

COMPETITIONS

2015 **Finalist**, Robocup Junior Italia

Milan, Italy

2019 **Finalist**, Soccer Data Challenge

Trento, Italy

AWARDS

2017 **Awarded**, Mason Vicentino Scholarship for Academic Merits

Colceresa, Italy

2017-2019 **Awarded**, Opera Universitaria Annual Scholarship

Trento, Italy