Steve **Azzolin**

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Education

Computer Laboratory @ University of Cambridge   *Cambridge, UK*

MASTER'S THESIS   *March. 2022 - Sept. 2022*

- Supervisors: Prof. Pietro Liò and Prof. Andrea Passerini
- Main topic: **Graph Neural Networks**

University of Trento   *Trento, Italy*

M.S. IN ARTIFICIAL INTELLIGENCE SYSTEMS   *Sept. 2020 - Curr.*

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

University of Trento   *Trento, Italy*

B.S. IN COMPUTER SCIENCE   *Sept. 2017 - Jul. 2020*

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

Research Experience

Signals & Interactive Systems Lab   *Trento, Italy*

RESEARCH INTERN   *Feb. 2020 - Curr.*

- Analyzed biomedical data from smart wearable devices
- 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
- Explained the prediction of the model with the XAI tool **Captum**
- Supervised by Prof. Giuseppe Riccardi

Blue Reply   *Padova, Italy*

MACHINE LEARNING INTERN   *Feb. 2020 - Jun. 2020*

- Applied and optimized **Unsupervised ML** techniques for customer segmentation
- Deployed a ML pipeline on **IBM Watson**

Mediagate.TV   *Prague, Czech Republic*

ERASMUS+ INTERN   *Jun.. 2016 - July. 2016*

- Backend web developement
- Set up an authentication system with RFID and Arduino

Publications

- 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

Academic Service

- Reviewer at COLING 2022

Projects

A Multi-Task Learning Approach to Person Re-Identification and Attribute Recognition

- Project for the MSc course *Deep Learning* by Prof. Elisa Ricci. Final grade 30/30 cum laude
- Developed a **Siamese CNN** with self-attention jointly trained for Person Re-Identification and Attribute Recognition in **PyTorch**

Non-Rigid Multi-Object Tracking

- Developed algorithms for Non-rigid Multi-object tracking in **Python**, using **OpenCV** and **Sklearn**

Scale-Aware Graph Neural Network for Few-Shot Semantic Segmentation

- Explained and reviewed the aforementioned paper to the class
- Proposed improvements to the overall architecture

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*

- The Cambridge Ellis Machine Learning Summer School is a distinguished course offered to graduate students, researchers and professionals, featuring engaging experts in their respective field and/or world-recognized professionals speaking about advanced machine learning concepts

Eastern European Machine Learning Summer School

ATTENDEE   *July. 2022*

- Eastern European Machine Learning Summer School is a one-week summer school with the goal of spreading knowledge and expanding networks in the field of Machine Learning. It comprises lectures from foremost scientists in the field, tutorials, workshops, and mentorship sessions

Serbian Machine Learning Workshop

ATTENDEE   *May. 2022*

- Serbian Machine Learning Workshop, part of the EEML Workshops series, is a two-day workshop aimed to popularise topics related to Deep Learning and Reinforcement Learning among students and practitioners

CMMRS 2021

ATTENDEE   *Aug. 2021*

- Pre-doctoral summer school exposing attendees to state-of-the-art research in computer science, and giving the opportunity to interact one-on-one with internationally leading scientists from three of the foremost academic institutions in research and higher learning