(+39) 348 8435870

Education.

University of Trento

MASTER OF SCIENCE IN DATA SCIENCE

- Average: 29.00/30
- Courses: Machine Learning, Deep Learning, Big Data Technologies, Data Mining, Statistical Learning, Network Science

University of Trento

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Courses: Introduction to Machine Learning, Software Engineering 1 and 2, Relational Databases, Algorithms and Data Structures

Awards_

Scholarship, "Marialaura Bocchetti Protti" 2016 2014 - 21 Scholarship, De Rigo Refrigeration

Experience

Fondazione Bruno Kessler

MASTER'S THESIS INTERN

- Evaluation and comparison of SOTA object detectors and trackers.
- Development of Generative models for face anonymisation.
- · Management of distributed model training.

University of Trento

LEARNING MENTOR

- Collaboration in a refresher course for teachers on computational thought.
- Taught programming through the use of Scratch programming language.

University of Trento

FULL STACK DEVELOPER

- Development of a web app to manage reminiscence sessions for elderly people, to early detect mental illness.
- Full stack development on PostgreSQL/Express.js/React.js/Node.js stack.

Publications

Graph-based Generative Face Anonymisation

N. DALL'ASEN, Y. WANG, H. TANG, L. ZANELLA, E. RICCI

The British Machine Vision Conference (BMVC) submission

AnonyGAN is a GAN-based solution for face anonymisation which replaces the visual information corresponding to a source identity with a condition identity provided as a single image. We exploit a Bipartite Graph to explicitly model the relations between the facial landmarks of the source identity and the ones of the condition identity through a deep cross reasoning model. We prove that AnonyGAN significantly outperforms the state-of-the-art methods in terms of visual naturalness, pose preservation and face detection, while being on par in terms of the re-identification performance.

Projects _

MARVEL: Multimodal Extreme Scale Data Analytics for Smart Cities Environments (EU H2020 project)

PI: Prof. Elisa Ricci (FBK)

Objective: provide a privacy-preserving video solution that serves the construction of smart cities. Role: development of a GAN-based network for face anonymisation.

Sep 2019 - Oct 2021 (Expected)

Trento, Italy Mar 2021 - Sep 2021

Trento, Italy Sep 2019

Trento, Italy

Feb 2019 - May 2019

June 2021 Virtual

Trento, Italy Sep. 2016 - July 2019

Belluno, Italy

Belluno, Italy

Trento, Italy

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Erdos Graphwalker (Big Data System project)

PI: Prof. Daniele Miorandi

Objective: design and realise a Big Data system to extract information from Google Scholar and build a coauthorship graph and calculate the analogous of the Erdos distance for any scholar.

Role: design and implementation of the whole ETL data processing, graph building, metric calculation and display as a webapp.

CGA Woz (Undergraduate project)

PI: Prof. Fabio Casati

Objective: design and realise a platform to provide medical experts with a tool to manage and perform reminiscence sessions for elderly people. Powered by NLP and Visual Search it provides an automated way to extract information.

Role: design and implementation of the whole architecture: SQL database, APIs and serving layer as a webapp.

Skills _____

Languages	Python, Javascript, R, Java, C++ PyTorch, Node.js, React.js	
Frameworks		
Database	MySQL, PostgreSQL, Node4J, Redis	
Other technologies	Docker, Git, CI/CD, Flutter	

Extracurricular Activity _____

2021	Reviewer, British Machine Vision Conference (BMVC)	
2018 - 21	Google Hashcode, Participated in the competition from Trento Hub	Trento, Italy
2016	Spokesman, DIDAMATICA - ICT for Teaching	Udine, Italy
2015-21	Learning Mentor, Coderdojo Valbelluna	Belluno, Italy
2015	School Representative, ITIS Segato	Belluno, Italy