

RAFFAELE POJER

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EDUCATION

PhD in Computer Science (Ongoing)

2023 - Present

Aalborg University, Denmark

Enrolled as a PhD student in Computer Science at Aalborg University.

Master's Degree in Artificial Intelligence Systems

2020 - 2023

University of Trento, Italy

Relevant Coursework: Machine Learning, Deep Learning, Advanced Topics in Machine Learning and Optimization, Fundamentals of Artificial Intelligence, Advanced Computer Vision, Bio-Inspired Artificial Intelligence, Signal Image and Video (SIV).

Bachelor's Degree in Computer Science

2017 - 2020

University of Trento, Italy

Relevant Coursework: Algorithms and Data Structure, Mathematical Foundation of Computer Science, Calculus, Geometry and Linear Algebra, Formal languages and compilers, Operating Systems.

High School Diploma, ICT specialization

2012 - 2017

ITT M. Buonarroti, Trento, Italy

WORK EXPERIENCE

Internship at Aalborg University

Sep 2022 - Dec 2022

Aalborg University, Denmark

- Curricular internship for thesis research. The topic is the combination of Relational Bayesian Networks (RBNs) and Graph Neural Networks (GNNs): a new neuro-symbolic approach for learning and reasoning about graph data.

Supervisors: Professors *Manfred Jaeger* and *Andrea Passerini*.

SKILLS

Computer Languages

Python, Java, C, C++, JavaScript

Python libraries

Numpy, Pandas, Sklearn, Scipy

Machine learning frameworks

PyTorch, PyTorch-Geometric

OS

Linux, MacOS, Windows

PROJECTS

Botch. Bachelor thesis project. Mod of Scratch 3.0 to teach kids rudimentary basics of evolutionary computing. ([Try it here](#))

Variable Name Prediction. Predicting Python variable names with Code-Transformer. A program synthesis project for the course of Advanced Topics in Machine Learning and Optimization.

Language Models. Written different flavours of RNN architectures from scratch (GRU and LSTM). A NLU course project.

Unsupervised domain adaptation in Computer Visions. A team project, where we develop a model based on GANs and cycle-consistent losses for an unsupervised domain-adaptation task.

Automatic Emergency Sign Detection. For the course of Signal, Image and Video: developed a classifier that recognize from smartphone photos, emergency sign without the usage of any deep-learning algorithm.

VOLUNTEERING

- **First aid volunteer**, Val di Cembra (Italy) 2017 - Current
Active volunteer from a first aid health association, Stella Bianca ONLUS. One night shift a week with team of coworkers in an ambulance. (stellabianca.eu)
- **CoderDojo Mentor**, Val di Cembra (Italy) 2018 - Current
Co-founder and mentor of the CoderDojo Val di Cembra branch. CoderDojo is a global volunteer-led community of free programming workshop for young people between the age of 7 and 17. (coderdojocembra.it)

CREATIVE WORKS

- **Theater**, Altavalle (Italy) 2012 - Current
Actor, sound and light technician of the Libero Teatro di Grumes philodrama.
- **Photographer**, Altavalle (Italy) 2018 - Current
Photographer of the Contavalle projects, hosted by Punto Doc.

HONORS AND AWARDS

- **Premio Mario Roat - Co.F.As.**, Trento (Italy) 2019
Miglior giovane interprete di un testo dialettale. Targa "Lino Lucchi".
(best young performer of a dialect text)