Linda Petrini

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RESEARCH INTERESTS

Deep Generative Models

LINKS

Github:// **LindaPetrini**
LinkedIn:// **petrinilinda**

SKILLS

PROGRAMMING

Proficient:
Python • MATLAB • LaTeX
Familiar:
C++ • Java
Machine Learning Libraries:
PyTorch •nltk •SciPy
Other:
Git • Jupyter

LANGUAGES

Native:
Italian
Proficient:
English (IELTS C1) • Russian

COURSEWORK

GRADUATE

Machine Learning
Natural Language Processing
Computational Intelligence
Information Retrieval
Computer Vision
Multi-Agent Systems
Game Theory

UNDERGRADUATE

Linear Algebra and Geometry
Analysis
Algebra
Geometry
Measure Theory
Probability
Numerical methods for ordinary differential equations
Statistics

EDUCATION

UNIVERSITY OF AMSTERDAM | MSc Artificial Intelligence

Expected Sep 2017 – Jul 2019 | Amsterdam, Netherlands

- Honours Programme.
- Current Cum GPA: 3.89.

UNIVERSITY OF MILANO-BICOCCA | BSc Mathematics

Sep 2014 – Jul 2017 | Milan, Italy

- Graduation mark: 108/110. Cum GPA: 3.62.
- Thesis work: "The Hodgkin-Huxley Model: Modeling and Numerical Solution in MATLAB".
- Student representative (2015-2017).

LICEO LEONARDO DA VINCI | Scientific High School

Sep 2009 – Jul 2014 | Gallarate, Italy

- Graduation mark: 100/100.
- Run a lab to teach other students how to use Arduino. Took elective courses: Java, Cryptography.

PROJECTS

SEMI-SUPERVISED LEANING WITH A VAMP PRIOR | Honours Project

Research project on the use of a Vamp Prior (Tomczak et al., 2017) for Variational Auto-Encoders, in the context of semi supervised learning with deep generative models(Kingma et al., 2014). Supervision of Rianne van de Berg, AMLab (UvA). .

LANGUAGE MODELS FOR TWITTER SENTIMENT ANALYSIS | Natural Language Processing Course

Created a Neural Network model in PyTorch for sentiment prediction on tweets. The model uses LSTM, RAN, GRU, RNN networks. **Code**. **Paper**.

A SELF-DRIVING CAR FOR TORCS | Computational Intelligence Course

Implementation of a controller for the car simulator TORCS, using Echo State Networks, NEAT and Particle Swarm Optimization. **Code**. **Paper**.

AWARDS

2014	3/50	Physics Competition "Valerio Filippini"
2013	2/20	National Math competition "Matematica senza Frontiere"
2012	National	International Math competition "Campionati Internazionali di Giochi Matematici"

ACTIVITIES AND VOLUNTEERING

2017	Member in VIA Master Committee (organization of educational events)
2017	Team Member in the Dutch Nao Team (RoboCup)
2014-2016	Secretary in Consulta Giovani Carnago (no-profit youth association)