

Luca Moschella

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Education

Sapienza University of Rome

PHD IN COMPUTER SCIENCE

- Supervisor: Prof. Emanuele Rodolà.

Rome, Italy

2020 - present

Sapienza University of Rome

M.S. IN COMPUTER SCIENCE (GRADUATED WITH 110/110 CUM LAUDE, GRADE AVERAGE: 30.3/30)

- Dissertation: Neurospectralization: Learning to hear shapes
- Supervisor: Prof. Emanuele Rodolà.

Rome, Italy

2018 - 2019

Pi School

SCHOOL OF ARTIFICIAL INTELLIGENCE

- Received a two-months full scholarship of 25'000€ to participate at the School of Artificial Intelligence of Pi School. As a scholarship winner, I worked on a project presented by the National Congress of Notaries developing AI-based solutions on NLP problems.

Rome, Italy

April 29 - June 21, 2019

Sapienza University of Rome

B.S. IN COMPUTER SCIENCE (GRADUATED WITH 110/110 CUM LAUDE, GRADE AVERAGE: 30.5/30)

- Dissertation: Experimental analysis of some topological aspects of bayesian networks in the modeling of peer-evaluation.
- Supervisor: Prof. Andrea Sterbini.

Rome, Italy

2014 - 2017

Experience

Deep Learning and Applied AI course

TEACHING ASSISTANT

- Designed the course lab sessions to explain and show to the students cutting-edge techniques in many areas of deep learning.

Sapienza University of Rome

2nd semester 2020 and 2021

Projects selection

Semantic recommender system

COURSE OF WEB AND SOCIAL INFORMATION EXTRACTION

- A system that can recommend to Twitter users whichever item can be expressed in terms of BabelNet semantic categories.
- Twitter users and items are represented in the same space, in terms of semantic categories, exploiting all the available information.

Sapienza University of Rome

Sep. 2018 - Dec. 2018

Biotouch

COURSE OF BIOMETRIC SYSTEM

- A system that can recognize users from their writing style on a touchscreen.
- Built an android application to gather the dataset, used Python with tsfresh to extract features from time series and scikit-learn to classify.

Sapienza University of Rome

Dec. 2017 - Feb. 2018

NLP systems

COURSE OF NATURAL LANGUAGE PROCESSING

- Implemented from scratch models to train word embeddings and classify text into domains, perform WSD and SRL.

Sapienza University of Rome

Feb. 2018 - Sep. 2018

Talks

Spectral Unions of Partial Deformable 3D Shapes

@ MEDITERRANEAN MACHINE LEARNING SUMMER SCHOOL

Poster Presenter

Jan. 14, 2021

Digital

Learning Set Operations for Deformable Shapes

@ ELLIS WORKSHOP ON GEOMETRIC AND RELATIONAL DEEP LEARNING

Poster Presenter

Apr. 24, 2020

Digital

Neurospectralization: Learning to hear shapes

@ SAPIENZA GEOMETRIC & VISUAL COMPUTING GROUP

Oct. 19, 2019

Rome, Italy

Summer Schools

- ACDL 2020: 3rd Advanced Course on Data Science & Machine Learning

July 13-17, 2020

Siena, Italy

- Machine Learning for Non-Matrix Data

June 26, 2020

Digital

- 3rd International Summer School on Deep Learning

July 22-26, 2019

Warsaw, Poland

- Symposium on Geometry Processing

Student Volunteer

July 8-10, 2019

Milan, Italy

Peer reviewed

- [De +17] M. De Marsico, **L. Moschella**, A. Sterbini, and M. Temperini. “Effects of Network Topology on the OpenAnswer’s Bayesian Model of Peer Assessment”. In: *Data Driven Approaches in Digital Education*. Ed. by É. Lavoué, H. Drachsler, K. Verbert, J. Broisin, and M. Pérez-Sanagustín. Lecture Notes in Computer Science. Cham: Springer International Publishing, 2017, pp. 385–390. ISBN: 978-3-319-66610-5. DOI: 10.1007/978-3-319-66610-5_31.
- [Mar+17] M. D. Marsico, **L. Moschella**, A. Sterbini, and M. Temperini. “Performance Variations of the Bayesian Model of Peer-Assessment Implemented in OpenAnswer Response to Modifications of the Number of Peers Assessed and of the Quality of the Class”. In: *2017 16th International Conference on Information Technology Based Higher Education and Training (ITHET)*. 2017 16th International Conference on Information Technology Based Higher Education and Training (ITHET). July 2017, pp. 1–6. DOI: 10.1109/ITHET.2017.8067814.

Preprints

- [Mos+21] **L. Moschella**, S. Melzi, L. Cosmo, F. Maggioli, O. Litany, M. Ovsjanikov, L. Guibas, and E. Rodolà. *Spectral Unions of Partial Deformable 3D Shapes*. Mar. 31, 2021. arXiv: 2104.00514 [cs]. URL: <http://arxiv.org/abs/2104.00514> (visited on 04/02/2021).