Luca **Moschella**

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Education

Sapienza University of Rome   *Rome, Italy*

PHD IN COMPUTER SCIENCE   *2020 - present*

- Supervisor: Prof. Emanuele Rodolà.

Sapienza University of Rome   *Rome, Italy*

M.S. IN COMPUTER SCIENCE   (GRADUATED WITH 110/110 CUM LAUDE, GRADE AVERAGE: 30.3/30)   *2018 - 2019*

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

Pi School ↗   *Rome, Italy*

SCHOOL OF ARTIFICIAL INTELLIGENCE   *April 29 - June 21, 2019*

- 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.

Sapienza University of Rome   *Rome, Italy*

B.S. IN COMPUTER SCIENCE   (GRADUATED WITH 110/110 CUM LAUDE, GRADE AVERAGE: 30.5/30)   *2014 - 2017*

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

Experience

Deep Learning and Applied AI course ↗   *Sapienza University of Rome*

TEACHING ASSISTANT   *2nd semester 2020 and 2021*

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

Projects selection

Semantic recommender system ↗   *Sapienza University of Rome*

COURSE OF WEB AND SOCIAL INFORMATION EXTRACTION   *Sep. 2018 - Dec. 2018*

- 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.

Biotouch ↗   *Sapienza University of Rome*

COURSE OF BIOMETRIC SYSTEM   *Dec. 2017 - Feb. 2018*

- 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.

NLP systems   *Sapienza University of Rome*

COURSE OF NATURAL LANGUAGE PROCESSING   *Feb. 2018 - Sep. 2018*

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

Talks

Spectral Unions of Partial Deformable 3D Shapes   Poster Presenter   *Jan. 14, 2021*   *Digital*

@ MEDITERRANEAN MACHINE LEARNING SUMMER SCHOOL ↗

Learning Set Operations for Deformable Shapes   Poster Presenter   *Apr. 24, 2020*   *Digital*

@ ELLIS WORKSHOP ON GEOMETRIC AND RELATIONAL DEEP LEARNING ↗

Neurospectralization: Learning to hear shapes   *Oct. 19, 2019*   *Rome, Italy*

@ SAPIENZA GEOMETRIC & VISUAL COMPUTING GROUP

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*

Publications

[1]   M. De Marsico, **L. Moschella**, A. Sterbini, and M. Temperini. "Effects of network topology on the openanswer's Bayesian model of peer assessment". In: *Lecture Notes in Computer Science*. Vol. 10474 LNCS. 2017. ISBN: 9783319666099. DOI: 10.1007/978-3-319-66610-5_31.

[2]   M. De 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*. 2017. ISBN: 9781538639689. DOI: 10.1109/ITHET.2017.8067814.