

Giovanni Trappolini

SUMMARY

I am a Post-Doc Researcher in Fabrizio Silvestri's RSTLESS Lab working on topics ranging from geometric deep learning to Neural Databases. Previously, I obtained my PhD under the supervision of Emanuele Rodolà in the GLADIA Lab. I thrive in dynamic, inter-disciplinary environment where I can develop new skills and solve new challenges. Please visit my website if you wanna know more!

EDUCATION

Sapienza University

Sapienza's Excellence Track

Additional focused educational activities for top students in the M.Sc. degree

Rome, Italy

February, 2018-May, 2018

Sapienza University

M.Sc. in Data Science, cum laude

October, 2016-October, 2018

Luiss University

B.Sc. Statistics & Economics

September, 2013-July, 2016

Kamiak High School

High School Diploma

Seattle (WA), USA

August, 2011-July, 2012

EXPERIENCE

Sapienza University

Post-Doc Researcher in Machine Learning

July, 2022-Present

Improving the state of the art in geometric deep learning, with a particular focus on explainability and multimodality.

Sapienza University

PhD Student in Machine Learning

October, 2018-June, 2022

Improving the state of the art in shape analysis, computer vision, and sequence generation using the latest deep learning models.

TIM S.p.a.

Data Scientist

June, 2018-September, 2018

Developed a machine learning system for churn prediction, using a wide variety of *big* and heterogeneous data, with a lift in terms of recall of more than 40%. Spark and Hadoop were the tools used in this project.

TEACHING EXPERIENCE

Luiss University

Probability and Statistics

February, 2019 - June, 2019

Luiss University

Machine Learning

October, 2019 - December, 2019

Luiss University

Probability and Statistics

February, 2020 - June, 2020

Sapienza University

The Python Programming Language for Machine Learning

September, 2020 - October, 2020

Sapienza University

The Python Programming Language for Machine Learning

September, 2021 - October, 2021

Sapienza University

The Python Programming Language for Machine Learning

September, 2022 - October, 2022

KEY SKILLS

Programming Language

Python, R, SQL, Spark, Java

Research Tool

Pytorch, Pytorch Lightning, Wandb

PUBLICATIONS

- **G. Trappolini**, V. Maiorca, S. Severino, E. Rodolà, F. Silvestri, G. Tolomei
"Sparse Vicious Attacks on Graph Neural Networks"
- **G. Trappolini**, L. Cosmo, L. Moschella, R. Marin, S. Melzi, E. Rodolà
"Shape Registration in the time of Transformers", Neurips2021.
- G. Barnabò, **G. Trappolini**, L. Lastilla, C. Campagnano, A. Fan, F. Petroni, F. Silvestri
"CycleDRUMS: Automatic Drum Arrangement For Bass Lines Using CycleGAN".
- O. Halimi, I. Imanuel, O. Litany, **G. Trappolini**, E. Rodolà, L. Guibas, R. Kimmel
"Toward Shape Completion of Deformable Shapes", European Conference on Computer Vision (ECCV2020).
- **G. Trappolini**, T. Padellini, P. Brutti
"Multiresolution topological data analysis for robust activity tracking" SIS2019, Smart Statistics for Smart Applications.

Academic Activity

PC member and reviewer for top conferences and journal, including:

- ICML, ECCV/ICCV, NEURIPS, EMNLP, ACL, ICLR, CVPR, WWW, AAAI, PKDD.

REFERENCES

- **Prof. Silvestri**
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Sapienza University
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- **Prof. Rodolà**
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