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rianna Rampini

PHD STUDENT · COMPUTER SCIENCE

Education

PhD student in Computer Science

SAPIENZA UNIVERSITY OF ROME

- Supervisor: Emanuele Rodolà
- Research interests: geometry processing, computer vision, geometric deep learning

Master's Degree in Theoretical Physics

SAPIENZA UNIVERSITY OF ROME

- Grade: 110/110 summa cum laude
- Thesis advisor: Federico Ricci Tersenghi
- Thesis title: The use of Monte Carlo methods to solve inference problems
- Successfully completed the Excellence Programme offered by Sapienza

Bachelor's Degree in Physics

SAPIENZA UNIVERSITY OF ROME

- Grade: 110/110 summa cum laude
- Thesis advisor: Federico Ricci Tersenghi
- Thesis title: Optimization algorithms for community detection in graphs

Science High school Diploma

LICEO SCIENTIFICO "VITO VOLTERRA"

• Grade: 100/100 summa cum laude

Awards and Scholarships.

10/2019	Best Student Paper Award , at the Int. Conf. on 3D Vision (3DV 2020) with the paper <i>Instant recovery of</i> shape from spectrum via latent space connection.	Online
11/2019	Bourse de recherche , fellowship offered by the French government to PhD students willing to spend three months in a French research institution (École Polytechnique), with the project <i>Generative models for deformable shapes</i> .	Rome, Italy
11/2020	Avvio alla Ricerca , research funding for PhD students of Sapienza University, with the project <i>Fake news detection by geometric deep learning on graphs</i> .	Rome, Italy
09/2019	Best Paper Award , at the Int. Conf. on 3D Vision (3DV 2019) with the paper <i>Correspondence-free region localization for partial shape similarity via hamiltonian spectral alignment.</i>	Quebec City, Canada
09/2019	Best Paper Award , at the IEEE Women in Engineering Workshop (WIE 2019) with the paper Correspondence-free region localization for partial shape similarity via hamiltonian spectral alignment.	Quebec City, Canada
01/2018	Excellence programme , scholarship awarded to the top 15 students of the Degree Course in Physics at Sapienza, that allows to attend extra lectures and to have partial refund of university taxes.	Rome, Italy

Academic Experience_

Teaching assistant

COMPUTER SCIENCE DEPARTMENT OF SAPIENZA

• Supporting teaching activity for the course "Probabilità e laboratorio" (probability course of the Bachelor's degree in Statistics) and "Analisi" (analysis course of the Bachelor's degree in Engeneering)

Visiting researcher

COMPUTER SCIENCE DEPARTMENT OF ÉCOLE POLYTECHNIQUE

- Host professor: Maks Ovsjanikov
- Duration of the visiting period: three months (in part remotely)

Rome, Italy November 2018 – Present

Rome, Italy October 2016 – October 2018

Rome, Italy October 2013 – September 2016

Rome, Italy

September 2008 – July 2013

Rome, Italy October 2020 – January 2021

Paris, France February 2020 – April 2020

Guest lecturer

COMPUTER SCIENCE DEPARTMENT OF SAPIENZA

• For the course "Computer Graphics" (Bachelor's degree in Computer Science)

Teaching assistant

PHYSICS DEPARTMENT OF SAPIENZA

- Supporting teaching activity for the course "Laboratorio di Meccanica" (1st year of Bachelor's degree in Physics) during laboratory classes
- Grading lab reports of the students

Laboratory assistant

LABORATORI BRUNO PONTECORVO

- Supporting activity to professors and students during laboratory classes for the courses "Laboratorio di Meccanica", "Laboratorio di Circuiti", "Termodinamica e laboratorio" of the Bachelor's degree in physics
- Supporting activity to laboratory staff for preparing classes of the above mentioned courses

Talks & Seminars

Isospectralization, or how to hear shape, style and correspondence	Haifa, Israel
Technion, Israel Institute of Technology	January 2019
Invited talk at Pixel Club - Technion computer vision colloquium	
Isospectralization, or how to hear shape, style and correspondence	Rehovot, Israel
Weizmann Institute of Science	January 2019
Invited talk	

Academic service

Reviewer

ICCV 2021, CVPR 2021, 3DV 2020, ECCV 2020, CVPR 2020, CVPR 2019, ICCV 2019, CAIP 2019, Journal of Mathematical Imaging and Vision, Applied Mathematics and Computation, ICCV Geometry Meets Deep Learning 2019

Student volunteer

Eurographics 2019

Schools & Workshops

01/2021	Mediterranean Machine Learning school , six days school with keynotes, lectures and practical sessions on Machine Learning.	Online
07/2020	Advanced Course on Data Science & Machine Learning, five-days summer school (40 hours of lectures) on cutting-edge advances in Machine Learning.	Siena, Italy
04/2020	ELLIS Workshop on Geometric and Relational Deep Learning, virtual event.	Online
11/2019	The Ethics and Law of AI , at Camera dei deputati, Palazzo Montecitorio. Conference aimed at stimulating a debate on the A.I. Code of Ethics in Italy.	Rome, Italy
09/2019	Geometry Workshop , at Graz University of Technology. Topics: discrete differential geometry, computational geometry and topology, digital fabrication and design	Strobl, Austria
07/2019	Graduate School on Geometry Processing, several lectures in various topics in the field.	Milan, Italy
04/2019	Workshop on Shape Analysis, restricted event following a merit-based selection process.	Los Angeles, USA

Publications

Universal Spectral Adversarial Attacks for Deformable Shapes. Rampini, A., Pestarini, F., Cosmo, L., Melzi, S., Rodolà, E. In Proc. of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2019.

Instant recovery of shape from spectrum via latent space connections. Marin, R., Rampini, A., Castellani, U., Ovsjanikov, M., Rodolà, E., Melzi, S., International Conference on 3D Vision (3DV) 2020.

Correspondence-free region localization for partial shape similarity via Hamiltonian spectrum alignment. Rampini, A., Tallini, I., Ovsjanikov, M., Bronstein, A. M., Rodolà, E., International Conference on 3D Vision (3DV) 2019.

Isospectralization, or how to hear shape, style, and correspondence. Cosmo, L., Panine, M., Rampini, A., Ovsjanikov, M., Bronstein, M. M., Rodolà, E. In Proc. of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2019.

Rome, Italy

Rome, Italy

March 2018 - June 2018

March 2017 - January 2018