

Irene Cannistraci

PhD Student in CS | Visiting Researcher @ Helmholtz Munich

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EDUCATION

- Ph.D. in Computer Science

Nov 2020 - Present

Sapienza University of Rome

Rome, Italy

Part of the GLADIA group, advised by Prof. Emanuele Rodolà
- M.Sc. in Computer Science

Sep 2018 - Oct 2020

Sapienza University of Rome

Rome, Italy

Grade: 110/110 cum laude
- B.Sc. in Computer Science

Sep 2013 - Mar 2017

Sapienza University of Rome

Rome, Italy

EXPERIENCE

- International Research Visit

Feb 2024 - Present

Institute of AI for Health, Helmholtz Munich

Munich, Germany

Working at the intersection of representation learning, geometric deep learning, and topological machine learning in the AIDOS Lab, led by prof. Bastian Rieck
- Teaching Assistant

Sept 2023 - Present

LUISS Guido Carli University

Rome, Italy

Lectured and mentored 40+ students for the Data Science in Action MSc course, and designed and implemented the course lab sessions.
- Teaching Assistant

Feb 2023 - Jun 2023

Sapienza University of Rome

Rome, Italy

Lectured and mentored 80+ students for the Deep Learning and Applied AI MSc course.
- Software Developer Engineer

Jun 2017 - Feb 2019

NTT Data

Rome, Italy

Developing multiple software for several international customers such as Enel and Telecom.

SELECTED INVITED TALKS

- From Bricks to Bridges: Product of Invariances to Enhance Latent Space Communication

29 Feb 2024

Helmholtz AI, Helmholtz Munich

Munich, Germany

Hosted by Prof. Stefan Bauer. Slides here
- Unify Latent Spaces to Reuse Neural Components

20 Feb 2024

Helmholtz AI PhD Seminar, Helmholtz Munich

Munich, Germany

Slides here
- Unifying Representations by Infusing Invariances in the Latent Space

22 Jul 2023

Tübingen AI center

Tübingen, Germany
- Communicating between latent spaces with limited semantic correspondence

31 Mar 2022

Trento AI Journal Club

Trento, Italy

Slides here
- Panelist for the Women in Data Science Event

24 Jun 2021

WiDS Rome Event

Virtual

AWARDS

- ELISE Mobility Program for PhDs

Mar 2024

Travel Grant of €5,000 for junior researchers in the ELISE/ELLIS network
- G-Research Grant for PhD Students

Feb 2024

Research grant of £2,000 for PhD students and postdocs in quantitative fields
- Helmholtz Visiting Researcher Grant

Feb 2024

Three months fully-funded research stay at the Helmholtz Munich (Apr-Jun)
- Kickstarting Research Funding

Nov 2022

Research grant of €1,000 for young researchers and Ph.D. students
- Women in Technology Scholarship

Mar 2022

Grant of US\$8,000 for women of any age and nationality, pursuing an IT degree

PROFESSIONAL ACTIVITIES

- Reviewer

IJCNN 2023; Re-Align@ICLR2023; NeurReps, UniReps, New in ML, WiML @NeurIPS2023; ICIAP 2023; ACM TKDD 2021
- Volunteering

WiML@NeurIPS2023

TECHNICAL SKILLS

- Representation Learning
- Multimodal
- Deep Learning
- Computer Vision
- Foundation Models
- Transformers
- NLP
- Git
- Python
- PyTorch

REFEREES

- Prof. Emanuele Rodolà

ERC grantee

Sapienza University of Rome

@ rodola@di.uniroma1.it
- Prof. Bastian Rieck

Helmholtz Munich and Technical University of Munich (TUM)

@ bastian.rieck@helmholtz-muenchen.de

SELECTED PUBLICATIONS

Peer reviewed

- [1] I. Cannistraci, L. Moschella, M. Fumero, V. Maiorca, and E. Rodolà. "From Bricks to Bridges: Product of Invariances to Enhance Latent Space Communication". In: *The Twelfth International Conference on Learning Representations (ICLR 2024, spotlight, top 5%)*. 2024. URL: <https://openreview.net/forum?id=vngVydDWft>.
- [2] I. Cannistraci, L. Moschella, V. Maiorca, M. Fumero, A. Norelli, and E. Rodolà. "Bootstrapping Parallel Anchors for Relative Representations". In: *The First Tiny Papers Track at ICLR 2023, Tiny Papers @ ICLR 2023, Kigali, Rwanda, May 5, 2023*. Ed. by K. Maughan, R. Liu, and T. F. Burns. OpenReview.net, 2023. URL: <https://openreview.net/pdf?id=VBuUL2IW1q>.
- [3] D. Crisostomi, I. Cannistraci, L. Moschella, P. Barbiero, M. Ciccone, P. Liò, and E. Rodolà. "From Charts to Atlas: Merging Latent Spaces into One". In: *NeurIPS 2023 Workshop on Symmetry and Geometry in Neural Representations (NeurReps @ NeurIPS 2023)* (2023). URL: <https://arxiv.org/abs/2311.06547>.

Preprints

- [4] I. Cannistraci, M. Fumero, L. Moschella, V. Maiorca, and E. Rodolà. "Infusing invariances in neural representations". In: *Extended Abstract, TAG-ML workshop @ ICML 2023* (2023). URL: <https://openreview.net/pdf?id=mCm4iiNoNc>.