

Irene Cannistraci

PhD Student in CS

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 irene-cannistraci

 icannistraci

 Scholar


EDUCATION

- Ph.D. in Computer Science

Sapienza University of Rome

Nov 2020 - Present

Rome, Italy

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

Sapienza University of Rome

Sep 2018 - Oct 2020

Rome, Italy

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

Sapienza University of Rome

Sep 2013 - Mar 2017

Rome, Italy

EXPERIENCE

- International Research Visit

Institute of AI for Health, Helmholtz Munich

Feb 2024 - July 2024

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

LUISS Guido Carli University

Sept 2023 - May 2024

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

Sapienza University of Rome

Feb 2023 - Jun 2023

Rome, Italy

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

NTT Data

Jun 2017 - Feb 2019

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

Helmholtz AI, Helmholtz Munich

29 Feb 2024


Munich, Germany

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

Helmholtz AI PhD Seminar, Helmholtz Munich

20 Feb 2024

Munich, Germany

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

Tübingen AI center


22 Jul 2023

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

Trento AI Journal Club

31 Mar 2022

Trento, Italy


Slides here 
- Panelist for the Women in Data Science Event

WiDS Rome Event


24 Jun 2021

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

-  Program Chair

UniReps@NeurIPS2024 
-  Reviewer

NeurIPS; 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

 Homepage 
- Prof. Bastian Rieck

 University of Fribourg

 Homepage 

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>.