

# IRENE CANNISTRACI

## PhD Student in CS | Visiting Researcher @ Helmholtz Munich

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🎓 Scholar

## 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

**B.Sc. Tuition Fees**

2014-2017

Sponsored for academic merits by Sapienza to cover **entire B.Sc. tuition fees**

## PROFESSIONAL ACTIVITIES



**Reviewer**

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



**Volunteering**

WiML@NeurIPS2023

## ATTENDED



**Conferences**

NeurIPS 2023, ICML 2023, Lightning DevCon 2022



**Summer Schools**

EEML 2023, MLSS $\hat{S}$  2023, M2L 2022

## REFEREES

**Prof. Emanuele Rodolà** *ERC grantee*

📍 Sapienza University of Rome

🌐 [Homepage](#) [🔗](#)

## SELECTED PUBLICATIONS

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### 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>.