# Irene Cannistraci

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## **Education**

Sapienza University of Rome Rome, Italy

Ph.D. IN COMPUTER SCIENCE 2020 - present

• Laboratories: GLADIA (Prof. E.Rodolà) and VisionLab (Prof. D. Avola)

Sapienza University of Rome Rome, Italy

M.S. IN COMPUTER SCIENCE - GRADUATED WITH 110/110 CUM LAUDE

2018 - 2020

• Thesis: Time-Aware Sequential Deep Learning and Their Application in Healthcare

Sapienza University of Rome Rome, Italy

B.S. IN COMPUTER SCIENCE 2014 - 2017

# Experience \_

## **Teaching Assistant - Data Science in Action**

LUISS GUIDO CARLI UNIVERSITY - DEPARTMENT OF BUSINESS AND MANAGEMENT Sept 2023 - present

• Lecturer and mentor for the Data Science in Action course

#### Teaching Assistant - Deep Learning and Applied AI

SAPIENZA UNIVERSITY OF ROME - DEPARTMENT OF COMPUTER SCIENCE

· Lecturer and mentor for the Deep Learning and Applied AI course

Tutor Rome, Italy

UNITELMA SAPIENZA - COMPUTER SCIENCE DEPARTMENT

· Help students learn more about the university and provide an interface between them and the professors.

**Coding Teacher** FONDAZIONE MONDO DIGITALE Nov 2020 - Dec 2021

• Online coding lessons for high-school students for CO.ME.SE (COde&FraME for Self Empowerment) and CodinGirls Projects.

• Role Model for "La Notte dei Ricercatori 2020" and "STEM#4TeenGirls" the Erasmus+ Project for Scuole CEFA inRome, Bilbao and Prague

## **Software Developer Engineer**

Rome, Italy

NTT DATA Jun 2017 - Feb 2019

• RESTful APIs - Telecom

- Develop a microservices architecture to revise an outdated monolithic platform for messaging. Scalability and high reliability were guaranteed by the Openshift platform, meanwhile real-time tracking and quick troubleshooting by Elasticsearch.
- · Internal Portals (ServiceNow) Enel
  - eProfile: employees use the service to create their profiles, insert their job-related information, and apply to open internal positions.
  - OneClick: employees adopt it to open issue tickets, request devices, software licenses, etc.
  - Global Travel: employees adopt it to insert travel requests.

#### Awards

Nov. 2022 Avvio alla Ricerca - Sapienza University, Research grant for young researchers and Ph.D. students.

€1000

Rome, Italy

Rome, Italy

Feb 2023 - Jun 2023

Nov 2021 - present

Rome, Italy

Mar. 2022 2021 Zonta International Women in Technology Scholarship C, Zonta International

2014-2017 Lazio DiSCo - Sapienza University, Scholarship for academic merits to fully cover the B.S. tuition fees.

# **Professional Activities**

# Reviewer (Workshops)

- Symmetry and Geometry in Neural Representations (NeurReps) @ NeurIPS 2023
- Unifying Representations in Neural Models (UniReps) @ NeurIPS 2023
- New in ML @ NeurIPS 2023
- Women in Machine Learning Workshop (WiML) @ NeurIPS 2023

#### **Reviewer (Conferences)**

• International Conference on Image Analysis and Processing (ICIAP) - 2023

#### **Reviewer (Journals)**

• ACM Transactions on Knowledge Discovery from Data (TKDD) - 2021



Invited Talk at "il Futuro Annunciato" 🗹	Rieti, Italy
ITALIAN WORKSHOP FOR BACHELOR STUDENTS	July 2023
Invited Talk at the Artificial Intelligence Trento Journal Club $lacksquare$	Trento, Italy
COMMUNICATING BETWEEN LATENT SPACES WITH LIMITED SEMANTIC CORRESPONDENCE	March 2023
Invited Talk at Sapienza School of Advanced Studies (SSAS)	Rome, Italy
Course of Introduction to programming with Python (Prof. E. Rodolà)	Jan 2023
Invited Talk at Sapienza School of Advanced Studies (SSAS)	Virtual

Invited Panelist for WiDS Rome Event

Women In Data Science Rome Event

**Invited Talk for Data Science Innovation in Diabetes Webinar** 

Course of Introduction to programming with Python (Prof. E. Rodolà)

REAL DATA ARE OFTEN DIRTY DATA: PROBLEMS WITH THE ANALYSIS OF LARGE COLLECTIONS OF ELECTRONIC HEALTH RECORDS

Virtua

Feb 2022

# Scholarships for Conferences \_\_\_\_\_

Sept 2023 BUCA 🗹, BUCA Scholarship	Varenna
Jul 2023 <b>EEML </b> <sup>1</sup> , <b>EEML Scholarship</b>	Kosice
Jul 2022 Synapse Al Symposium 🗹, Bending Spoons Scholarship	Milan
Jun 2022 <b>Lightning DevCon </b> , <b>Lightning Scholarship</b>	New York City
Nov 2021 ICAIF'21 🗷, JPMorgan Fellowship	Virtual
Oct 2021 Festival Informatici Senza Frontiere 🗷, Aused Fellowship	Rovereto (TN)

# **Publications**

#### Peer reviewed

- [Avo+23] D. Avola, **I. Cannistraci**, M. Cascio, L. Cinque, A. Diko, D. Distante, G. L. Foresti, A. Mecca, and I. Scagnetto. "Real-Time GAN-Based Model for Underwater Image Enhancement". In: *International Conference on Image Analysis and Processing*. Springer. 2023, pp. 412–423.
- [Can+23c] I. Cannistraci, L. Moschella, V. Maiorca, M. Fumero, A. Norelli, and E. Rodolà. "Bootstrapping Parallel Anchors for Relative Representations". In: *Tiny Paper Track at ICLR 2023*. 2023. URL: https://openreview.net/pdf?id=VBuUL2IWlq.
- [Avo+22] D. Avola, I. Cannistraci, M. Cascio, L. Cinque, A. Diko, A. Fagioli, G. L. Foresti, R. Lanzino, M. Mancini, A. Mecca, and D. Pannone. "A Novel GAN-Based Anomaly Detection and Localization Method for Aerial Video Surveillance at Low Altitude". In: *Remote Sensing* 14.16 (2022), p. 4110.

#### **Preprints**

- [Can+23a] **I. Cannistraci**, M. Fumero, L. Moschella, V. Maiorca, and E. Rodolà. "Infusing invariances in neural representations". In: Extended Abstract at TAG-ML workshop, ICML 2023 (2023). URL: https://openreview.net/pdf?id=mCm4iiNoNc.
- [Can+23b] **I. Cannistraci**, L. Moschella, M. Fumero, V. Maiorca, and E. Rodolà. "From Bricks to Bridges: Product of Invariances to Enhance Latent Space Communication". In: *arXiv preprint arXiv:2310.01211* (2023).
- [Pra+23] M. Prata, G. Masi, L. Berti, V. Arrigoni, A. Coletta, **I. Cannistraci**, S. Vyetrenko, P. Velardi, and N. Bartolini. "LOB-Based Deep Learning Models for Stock Price Trend Prediction: A Benchmark Study". In: *arXiv preprint* (2023). URL: https://arxiv.org/abs/2308.01915.
- [Mar+22] M. Maranghi, A. Anagnostopoulos, **I. Cannistraci**, I. Chatzigiannakis, F. Croce, G. Di Teodoro, M. Gentile, G. Grani, M. Lenzerini, S. Leonardi, et al. "Al-based Data Preparation and Data Analytics in Healthcare: The Case of Diabetes". In: *arXiv preprint arXiv:2206.06182* (2022).