Irene **Cannistraci**

PH.D. STUDENT IN COMPUTER SCIENCE

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Education

Sapienza University of Rome   *Rome, Italy*

PH.D. IN COMPUTER SCIENCE   *Nov 2020 - present*

- Supervisor: Prof. D. Avola (VisionLab)
- Collaboration: Prof. E.Rodolà (GLADIA)

Sapienza University of Rome   *Rome, Italy*

M.S. IN COMPUTER SCIENCE - GRADUATED WITH 110/110 CUM LAUDE   *Sept 2018 - Oct 2020*

- Thesis: Time-Aware Sequential Deep Learning and Their Application in Healthcare
- Supervisor: Prof. Paola Velardi

Sapienza University of Rome   *Rome, Italy*

B.S. IN COMPUTER SCIENCE   *Sept 2014 - Mar 2017*

Work Experience

Fondazione Mondo Digitale   *Rome, Italy*

COACH   *Jun 2020 - present*

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

NTT Data   *Rome, Italy*

SOFTWARE DEVELOPER ENGINEER   *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  - Develop a microservices architecture to revise an outdated monolithic platform for messaging.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 and Scholarship

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

Nov. 2021 **JPMorgan ICAIF Fellowship**, JPMorgan Chase & Co.

Oct. 2021 **Festival Informatici Senza Frontiere Scholarship**, Aused

Jan. 2020 **Student-Collaboration Scholarship**, La Sapienza

Sept. 2014 **Lazio DiSCo Scholarship**, DISCO Lazio - Regional Body for Right to Education and Knowledge

Projects Selection

A YouTube Player for Everyone   *Rome*

UNIVERSITY PROJECT   *A.Y. 2019/2020*

- A YouTube player designed and implemented to be accessible by deaf users, combining biometric and multimodal methodologies. Users can log in through a facial identification system, and an emotion recognition algorithm suggests playlists based on their mood. Then the user can interact with the player by using hand gestures and/or voice commands.

BAS2Net   *Rome*

UNIVERSITY PROJECT   *A.Y. 2019/2020*

- Developing a new model that combines two state-of-the-art works in the Salient Object Detection field (BasNet and Res2Net). The resulting model requires 40% less training time, leading to better results on several datasets. Moreover, the proposed neural network is half the size of the original one.

Cervical Cancer Biopsia Response Classification   *Rome*

UNIVERSITY PROJECT   *A.Y. 2019/2020*

- Development of several machine learning algorithms to detect cervical cancer based on the Biopsia response, using the Cervical cancer (Risk Factors) dataset.

Talks

Invited Talk at Sapienza School of Advanced Studies (SSAS) *Virtual*
Course of Introduction to programming with Python (Prof. E. Rodolà) *Feb 2022*

Invited Panelist for WiDS Rome Event ⬈ *Virtual*
Women In Data Science Rome Event *Jun 2021*

Invited Talk for Data Science Innovation in Diabetes Webinar *Virtual*
Real Data Are Often Dirty Data: Problems With the Analysis of Large Collections of Electronic Health Records *Jun 2021*

Attended Conferences, Summer Schools and Workshops

Mar 2022 **GTC 2022** ⬈, AI Developer Conference *Virtual*
Nov 2021 **DI Doctoral WS 2021** ⬈, Sapienza CS Doctoral Workshop 2021 *Bertinoro*
Nov 2021 **ICAIF'21** ⬈, 3rd ACM International Conference on AI in Finance *Virtual*
Sept 2021 **NoBIAS Summer School 2021** ⬈, Artificial Intelligence without Bias *Virtual*
Jul 2021 **DeepLearn 2021 Summer** ⬈, 4th International School on Deep Learning *Virtual*
Apr 2018 **Codemotion** ⬈, Codemotion Rome 2018 Tech Conference *Rome*

Professional Activities / Academic Service

Tutor
Unitelma Sapienza *Nov 2021 - present*
- Help students learn more about the university and provide an interface between them and the professors.

Reviewer for
ACM Transactions on Knowledge Discovery from Data (TKDD) - Journal *Oct 2021*

Collaboration with Sapienza Flight Team
Sapienza Aerospace Student Association-AIAA Student Branch *Dec 2019*
- Developing a neural network for object detection and classification for the AUVSI SUAS 2020 Competition.