# Irene **Cannistraci**

PH.D. STUDENT IN COMPUTER SCIENCE

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## **Edu**cation

**Sapienza University of Rome** *Rome, Italy*
PH.D. IN COMPUTER SCIENCE *Nov 2020 - present*
- Supervisor: Prof. D. Avola (VisionLab)

**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*

## **Wor**k Experience

**Fondazione Mondo Digitale** *Rome, Italy*
COACH *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

**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  - Develop a microservices architecture to revise an outdated monolithic platform for messaging.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.

## **Awa**rds

Mar. 2022 **2021 Zonta International Women in Technology Scholarship** , Zonta International *$8000*

## **Tal**ks

**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*

## **Sch**olarships for Conferences

Jul 2022 **Synapse AI Symposium** , **Bending Spoons Scholarship** *Milan*
Jun 2022 **Lightning DevCon** , **Lightning Scholarship** *New York City*
Nov 2021 **ICAIF'21** , **JPMorgan Fellowship** *Virtual*
Oct 2021 **Festival Informatici Senza Frontiere** , **Aused Fellowship** *Rovereto (TN)*

## **Pro**fessional Activities / Academic Service

**Technical Program Committee**
7TH INTERNATIONAL CONFERENCE ON ADVANCES IN ELECTRONICS ENGINEERING *Aug 2022*

### Tutor

UNITELMA SAPIENZA - COMPUTER SCIENCE DEPARTMENT *Nov 2021 - present*

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

### Reviewer

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.

## **Pro**jects 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.