

# Chiara Camerota

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## Education

### PhD in Information Engineering

NETWORK LAB, ST. LOUIS UNIVERSITY

Jan. 2024 – Jul. 2024

- Visiting period

DaCoNETS LABORATORY, UNIVERSITY OF FLORENCE

Dec. 2022 – eta Mar. 2025

- Topics: Machine learning and data management for Internet of Things and Industrial applications

DISIT LAB, UNIVERSITY OF FLORENCE

Nov. 2021 – Dec. 2022

- Study and development of IOT platforms and solution to process data in the framework of smart city and industry 4.0

### Master in Statistics and Financial Science

110/110 Summa cum laude

UNIVERSITY OF FLORENCE

Sept. 2016 – Feb. 2019

- Dissertation's title: Graphical Models for circular data

### Bachelor in Statistics

101/110

UNIVERSITY OF FLORENCE

Sept. 2013 – Jul. 2016

- Dissertation's title: Non-parametric methods for circular data

## Publications

### JOURNAL

- Tsutsumi, Ayaka, Camerota, Chiara, Esposito, Flavio, Park, Si-Min, Taylor, Tiffany, Miyata, Shin, Forecasting Pediatric Trauma Volumes: Insights From a Retrospective Study Using Machine Learning, Journal of Surgical Research, vol. 306 (2025): 33-42
- Donati, Giovanni, Michele Basso, Graziano A. Manduzio, Marco Mugnaini, Tommaso Pecorella, and Chiara Camerota. "A convolutional neural network for electrical fault recognition in active magnetic bearing systems." Sensors 23, no. 16 (2023): 7023.

### CONFERENCES

- Camerota, Chiara, Lorenzo Pappone, Flavio Esposito, and Tommaso Pecorella. "Addressing Data Security in IoT: Minimum Sample Size and Denoising Diffusion Models for Improved Malware Detection"; 20th International Conference on Network and Service Management 2024
- Donati, Giovanni, Michele Basso, Marco Mugnaini, and Chiara Camerota. "A Convolutional Neural Network to Locate Unbalance in Turbomachinery Supported by AMBs." In 2024 IEEE International Workshop on Metrology for Industry 4.0 & IoT (MetroInd4.0 & IoT), pp. 274-279. IEEE, 2024.
- Bellini, Pierfrancesco, Chiara Camerota, and Paolo Nesi. "Automating Heterogeneous IoT Device Networks from Multiple Brokers with Multiple Data Models." In Global IoT Summit, pp. 226-238. Cham: Springer International Publishing, 2022.

### WORKSHOPS

- Camerota, Chiara, Tommaso Pecorella, and Andrew D. Bagdanov. "The intrinsic convenience of federated learning in malware IoT detection." 1st Workshop on Wireless Networks Deployment and Management (WNDM), 2024
- Esposito, Flavio, Alessio Sacco, Chiara Camerota. "Towards Distributed Learning in Autonomous Networks". Reliability of Software-Driven Next-Generation Networks, 2023
- First International 5G Student Workshop, Madrid, July 2023

### EUROPEAN PROJECT

- Participing to PRISMA -Design and development of automatic defect detection for verifying the quality of the tissue

## Experiences

### RESEARCH EXPERIENCE

- **Apr. 2021 - Nov. 2021** - DISIT Lab, University of Florence - Researcher for Snap4city.org
- **Nov. 2017 - Oct. 2019** - School of Economics, University of Florence - Statistic Student Tutor
- **Nov. 2017 - Mar. 2018** - School of Economics, VALMON S.R.L. - Support for the preliminary data analysis of the Selfie Survey

### COMPANY EXPERIENCE

- **Jul. 2020 - Apr. 2021** - Framework's team, Terranova Software, Florence - Experience with complex testing delivery, project management framework (frontend and backend), configuration system, and CRM. Good understanding of Cloud Native, Microservice, and Portable Software
- **Nov. 2019 - Jun. 2020** - External Advisor for Gucci Guccio, MAS Management Network, Florence - Research and design of IoT project and experience with Agile Methodology, Digital integration, and Information systems

## Languages

- **English** (Fluent), **Spanish** (Fluent), and **Italian** (mother tongue)