Luca **Corbucci**

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About Me

I am a PhD student in computer science interested in **federated learning** and **privacy-preserving machine learning** techniques with a strong passion for **communities** and public speaking. In my free time, I also record a podcast.

Education

University of Pisa
Pisa, Italy

DOCTOR OF PHILOSOPHY (PH.D.) IN COMPUTER SCIENCE
Nov. 2021 - Ongoing

- Won a 3 year fully funded Ph.D. scholarship to work on **Privacy-Preserving Machine Learning and Federated Learning**.
- **Supervisors:** Prof.ssa. Anna Monreale and Dr. Nicolas Kourtellis.
- Supervised 2 students during their master thesis. Tutored the course "Programming and Algorithmics" students for three semesters.

University of Pisa
Pisa, Italy

M.S. IN COMPUTER SCIENCE - CURRICULUM: "DATA AND KNOWLEDGE: SCIENCE AND TECHNOLOGIES"
Oct. 2018 - Jun 2021

- **Final Grade:** 110/110 Cum Laude - **Supervisors:** Prof.ssa. Anna Monreale and Dott.ssa. Cecilia Panigutti.
- **Thesis:** "Semantic enrichment of XAI explanations for healthcare". Published at DS2023. The code is on GitHub.

Technical University of Munich
Munich, Germany

COMPUTER SCIENCE - ERASMUS+ STUDY
Oct. 2019 - Mar. 2020

- **Courses:** Machine Learning, Basic Mathematical Tools for Imaging and Visualization, Practical Course: Cloud Databases.
- Designed, developed and evaluated a distributed database in a group of three international students. The code is on GitHub.

University of Pisa
Pisa, Italy

B.S. IN COMPUTER SCIENCE
Sep. 2014 - Oct. 2018

- **Thesis:** "Construction and Analysis of the Ethereum Transaction Graphs". The code is on GitHub.

Work Experience

Telefonica R&D
Barcelona, Spain

VISITING PH.D. STUDENT (6 MONTHS) AND RESEARCH INTERN (6 MONTHS)
Mar. 2023-Mar. 2024

- Worked on Privacy-preserving and Fair Machine Learning. Supervised by Dr. Nicolas Kourtellis and Dr. Mikko A Heikkilä

University of Pisa
Pisa, Italy

RESEARCH ASSISTANT
Jun. 2021 - Oct. 2021

- Won a research scholarship to work on the semantic enrichment of Explainable AI methods for healthcare.

Tocket
Pisa, Italy

FLUTTER DEVELOPER - TECH STACK: FLUTTER, DART, PYTHON, FLASK
Mar. 2020 - Jan. 2021

- Developed from scratch the MVP Tocket's application released on the iOS App Store and Google Play Store.

Publications

Oct 2023	**L. Corbucci, A. Monreale, C. Panigutti, M. Natilli, S. Smiraglio, D. Pedreschi**, "Semantic enrichment of explanations of AI models for healthcare" - Accepted at Discovery Science 2023	*Porto, Portugal*
Jul 2023	**L. Corbucci, R. Guidotti, A. Monreale**, "Explaining Black-Boxes in Federated Learning" - Accepted at xAI 2023	*Lisbon, Portugal*
Jun 2022	**L. Corbucci, A. Monreale, C. Panigutti, M. Natilli, S. Smiraglio, D. Pedreschi**, "Semantic enrichment of XAI explanations for healthcare" - Accepted at ICAI'22	*Las Vegas, USA*

Extracurricular Activity

Superhero Valley
Pisa, Italy

CO-FOUNDER AND COMMUNITY MANAGER
Oct. 2020 - Ongoing

- Co-founded a community of **1400+** computer scientist supported by big-tech employees and Italian universities
- Organized motivational talks, mock technical interviews and study groups. Several members of the community were able to get internships or full-time positions thanks to our activities.

PointerPodcast
Pisa, Italy

CO-CREATOR AND PODCASTER
May. 2019 - Ongoing

- Developed PointerPodcast's website and infrastructure. Recorded more than **170 episodes** with guests from both industry and academia.

Pisa.dev
Pisa, Italy

CO-FOUNDER AND CORE ORGANIZER
Jul. 2022 - Ongoing

- Co-founded Pisa.dev, a community for developers based in Pisa. Organized **10+ meetups and social events** in the first year of activity.