Luca **Corbucci**

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About Me

I am a third-year PhD student in Computer Science working on **Responsible AI**. I co-founded two **communities** and I currently host a podcast with over 200 episodes. I enjoy public speaking and have given talks at conferences like PyCon and Codemotion.

Education

University of Pisa
Pisa, Italy

DOCTOR OF PHILOSOPHY (PH.D.) IN COMPUTER SCIENCE — *Nov. 2021 - Apr. 2025*

- Won a 3-year fully funded Ph.D. scholarship to work on **Privacy-Preserving and Fair Federated Learning**.
- **Supervisors:** Prof. Anna Monreale and Dr. Nicolas Kourtellis.

University of Pisa
Pisa, Italy

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

- **Final Grade:** 110/110 Cum Laude - **Supervisors:** Prof. Anna Monreale and Dr. Cecilia Panigutti.
- **Thesis:** "Semantic enrichment of XAI explanations for healthcare". [**Paper** | **Code**].

Technical University of Munich
Munich, Germany

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

- Won 5-month Erasmus+ Study grant
- **Courses:** Machine Learning, Basic Mathematical Tools for Imaging and Visualization, Practical Course: Cloud Databases.

University of Pisa
Pisa, Italy

B.SC. IN COMPUTER SCIENCE — *Sep. 2014 - Oct. 2018*

- **Thesis:** "Construction and Analysis of the Ethereum Transaction Graphs". [**Code**].

Work Experience

Telefónica R&D - System AI Lab
Barcelona, Spain

RESEARCH INTERN - SUPPORTED BY THE SPATIAL H2020 EU PROJECT AND SUPERVISED BY DR. NICOLAS KOURTELLIS — *Mar. 2023 - Mar. 2024*

- Developed an approach for training Private and Fair models using Federated Learning. [**Preprint** | **Code**]
- Advanced the state-of-the-art by incorporating a fairness requirement that the final trained model should exhibit.
- Paper accepted at the European Conference on Artificial Intelligence (ECAI) 2024; Patent application submitted.

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. [**Paper**].

Publications

Oct 2024	**L. Corbucci**, M. Heikkilä, D. Noguero, A. Monreale, N. Kourtellis, **"PUFFLE: Balancing Privacy, Utility, and Fairness in Federated Learning"** - Accepted at European Conference on Artificial Intelligence (ECAI) 2024 [**Preprint**]	*Santiago de Compostela, Spain*
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 [**Paper**]	*Porto, Portugal*
Jul 2023	**L. Corbucci**, R. Guidotti, A. Monreale, **"Explaining Black-Boxes in Federated Learning"** - Accepted at xAI 2023 [**Paper**]	*Lisbon, Portugal*

Community Involvement

Superhero Valley 🔗
Pisa, Italy

CO-FOUNDER AND COMMUNITY MANAGER — *Oct. 2020 - Ongoing*

- Co-founded a community of **2000+** computer scientists supported by big-tech employees and Italian universities
- Supervised a team of five helpers in organising community activities and events.
- Organized motivational talks, mock technical interviews and study groups. **50+** community members got internships or full-time positions in Big Tech companies thanks to our activities.

PointerPodcast 🔗
Pisa, Italy

CO-CREATOR AND PODCASTER — *May. 2019 - Ongoing*

- Developed PointerPodcast's website and infrastructure. Recorded more than **200 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.