

# MARCO MINICI | RESUME

PhD Student in Artificial Intelligence

**Status:** PhD student

**Fields:** Algorithmic Bias, Behavioral Modelling

**Techs:** Python, Git, Bash, R, Java

**Activities:** Tennis, Fitness, Music, Movies

Italy

<https://mminici.github.io>

[marco.minici@icar.cnr.it](mailto:marco.minici@icar.cnr.it)

+39 3287316100

## Summary

2<sup>nd</sup>-year PhD student in Artificial Intelligence. I am part of the 1<sup>st</sup> Italian National PhD program in Artificial Intelligence. My research agenda focuses on a better understanding of algorithmic biases and their impacts on human beings both as individuals and as citizens - members of a larger community.

## Experience

**Applied Scientist Intern** - Amazon Music

Nov. 2022 - Apr. 2023

· The internship project is about analyzing Catastrophic Forgetting issues into the ranking algorithms of Amazon Music. Manager is Alexander Buchholz - Applied Scientist@Amazon Music, Berlin.

**Visiting PhD Student** - Eurecat Centre Tecnològic de Catalunya

July 2022

· Collaboration with Francesco Fabbri to design a framework for studying the effects of Algorithmic Radicalization caused by Recommender Systems. Currently under review.

**PhD Student** - University of Pisa, ICAR-CNR

2021 - present

- Echo-Chamber detection using information cascades of social-media users (CIKM'22)
- Analyzing the effect of people-recommender algorithms on echo chambers and polarization (ICWSM'22)
- Analyzing the entanglement between popularity bias and sampling in Recommender Systems (Disc. Paper)
- Supervisors: Giuseppe Manco - Research Director@ICAR-CNR - and Francesco Bonchi - Scientific Director@CENTAI.

**Research Fellow** - ICAR-CNR

2020 - 2021

- Worked on an academic-industrial joint project. Tagging System using a multi-modal neural architecture.
- Research paper on Imbalanced Classification, Deep Metric Learning and Explanation (published at ISMIS'22).

**Research Intern** - ISI Foundation

2019

- Developed my Master Thesis on the effect of people-recommender algorithms on opinion dynamics
- Developed genuine connections with lab researchers, which led to ongoing collaborations.

## Education

**Graduated as M.Sc. Data Science** - Sapienza University of Rome

2019

- Master Thesis: The effect of People Recommenders on Opinion Dynamics. Supervised by Francesco Bonchi.

## Selected Publications

**CIKM 2022** - 31st ACM International Conference on Information and Knowledge Management

- Minici, M., Cinus, F., Monti, C., Bonchi, F. & Manco, G. (2022). Cascade-based Echo Chamber Detection.

**ICWSM 2022** - 16th International Conference on Web and Social Media

- Cinus, F., Minici, M., Monti, C., Bonchi, F. (2022). The Effect of People Recommenders on Echo Chambers and Polarization.

**ISMIS 2022** - 26th International Symposium on Methodologies for Intelligent Systems

- Minici, M., Pisani, F. S., Guarascio, M., De Francesco, E., & Lambardi, P. (2022). Learning and Explanation of Extreme Multi-label Deep Classification Models for Media Content.