



# Mirko Giacchini

## EDUCATION AND TRAINING

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### Ph.D. in Computer Science

*Sapienza University of Rome* [ 11/2022 – 01/2026 ]

City: Rome | Country: Italy | Field(s) of study: Computer Science | Thesis: Some Algorithmic Problems for the Web Economy

Advisors: Professors Flavio Chierichetti and Alessandro Panconesi

### M.Sc. in Computer Science

*Sapienza University of Rome* [ 09/2020 – 07/2022 ]

Field(s) of study: Computer Science | Final grade: 110/110 cum laude, GPA: 30/30 | Thesis: Online algorithms for blogs synchronization

### B.Sc. in Computer Science

*Sapienza University of Rome* [ 09/2017 – 07/2020 ]

Field(s) of study: Computer Science | Final grade: 110/110 cum laude, GPA: 30/30 | Thesis: Complexity of Infinity Loop and related games

## PUBLICATIONS

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[2025]

### [A New Impossibility Result for Online Bipartite Matching Problems](#)

Authors: Flavio Chierichetti, Mirko Giacchini, Alessandro Panconesi, Andrea Vattani | Journal Name: ICALP 2025

[2024]

### [Tight Bounds for Learning RUMs from Small Slates](#)

Authors: Flavio Chierichetti, Mirko Giacchini, Ravi Kumar, Alessandro Panconesi, Andrew Tomkins | Journal Name: NeurIPS 2024

[2023]

### [Approximating a RUM from Distributions on k-slates](#)

Authors: Flavio Chierichetti, Mirko Giacchini, Ravi Kumar, Alessandro Panconesi, Andrew Tomkins | Journal Name: AISTATS 2023

[2025]

### [On the Metricity of the Chatterjee Correlation Coefficient](#)

Authors: Flavio Chierichetti, Mirko Giacchini, Ravi Kumar | Journal Name: The American Statistician

[2024]

### [Coordinating “7 Billion Humans” is hard](#)

Authors: Alessandro Panconesi, Pietro Maria Posta, Mirko Giacchini | Journal Name: FUN 2024

## ACADEMIC METRICS

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### H-Index

H-Index: 1

Total Citations: 2

Total Publications: 5

Source: Scopus

## WORKING PAPERS

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### User Choice, Hidden Gems, and the Quadratic Horizon

Authors: Flavio Chierichetti, Mirko Giacchini, Ravi Kumar, Alessandro Panconesi, Andrew Tomkins

currently under review

### Learning Multinomial Logits in $O(n \log n)$ time

Authors: Flavio Chierichetti, Mirko Giacchini, Ravi Kumar, Silvio Lattanzi, Alessandro Panconesi, Erasmo Tani, Andrew Tomkins

currently under review

### Searching with Intuition: Exploring (the bounds of) LLM-guided Optimization with Unknown Objectives

Authors: Justin Kaashoek, Mirko Giacchini, Manish Raghavan

currently under review

### Man, these New York Times games are hard! A computational perspective

Authors: Alessandro Giovanni Alberti, Flavio Chierichetti, Mirko Giacchini, Daniele Muscillo, Alessandro Panconesi, Erasmo Tani

arXiv preprint: <https://arxiv.org/pdf/2509.10846>

## CONFERENCES AND SEMINARS

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**Learning RUMs from Small Slates** Invited talk at:

- Google NYC, Algorithms Seminar (May 2024)
- Cornell Tech, Department of Operations Research and Information Engineering (May 2024)
- Bocconi University, Department of Computing Sciences (Nov. 2024)

**Some recent results on the complexity of the New York Times games** Invited talk at: University of Chicago, CAM & Stats Student Seminar (Oct. 2025)

**A New Impossibility Result for Online Bipartite Matching Problems** Conference talk at ICALP 2025, University of Aarhus.

**Tight Bounds for Learning RUMs from Small Slates** Poster presentation at NeurIPS 2024, Vancouver (Canada)

**Approximating a RUM from Distributions on k-slates** Poster presentation at AISTATS 2023, Valencia (Spain)

## ACADEMIC SERVICE

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### Program Committee

KDD (2024), TheWebConf (2024, 2026), and AAAI (2026)

### Reviewer

SODA (2025, 2026), ITCS (2025), ESA (2025), KDD (2023), TheWebConf (2025), SDM (2024), and ACM Transactions on Intelligent Systems and Technology (2024)

## HONOURS AND AWARDS

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**Google Hash Code 2022** Qualified for the World Finals

**Italian Olympiad in Informatics (OII) 2016** Gold medal (2nd/96)

**SWERC 2020 (ICPC Regional Contest)** Bronze medal (13th/107)

**CEOI 2017** Participant in the Central European Olympiad in Informatics

**Codeflows 2019** Qualified for the national finals of Bending Spoons' competitive programming contest(10th/2000)

Sapienza University of Rome

**Admission to "Percorso di Eccellenza" (B.Sc.)** Computer Science Department's Excellence Program, awarded to the top 5 students in the Bachelor's program

## TEACHING EXPERIENCE

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### Guest Lecturer

Delivered a two-hour guest lecture on NP-hardness for the "Algorithms & Complexity" course, B.Sc. in Mathematics, Sapienza University of Rome.

### Guest Lecturer

Delivered a one-hour guest lecture on online bipartite matching for the "Advanced Algorithms" course, M.Sc. in Computer Science, Sapienza University of Rome.

[ 2018 – 2021 ]

### Lecturer

Taught several lectures on graph algorithms for high-school students preparing for the Italian Olympiad in Informatics

## WORK EXPERIENCE

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### **Algorand Labs**

#### **Software Engineer Intern**

[ 07/2023 – 09/2023 ]

Topic: development of distributed orchestrator to interface apps with the Algorand Blockchain

### **Evidence srl (Huawei R&D group)**

#### **Research Intern**

[ 06/2021 – 08/2021 ]

Topic: development of trace analyzer to infer causes of job delays



## Software Engineer Intern

[ 07/2017 ]

Topic: development of e-learning platform for the internal marketing team