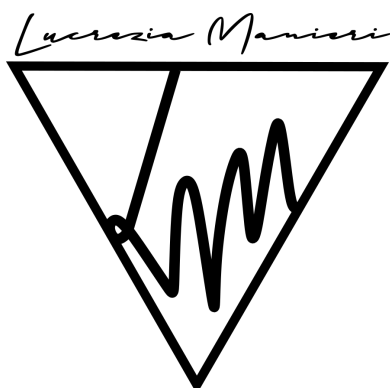




LUCREZIA MANIERI'S  
*Curriculum vitae et studiorum*

CURRENT POSITION

Reserch Fellow @ Politecnico di Milano  
Dipartimento di Elettronica, Informazione e Bioingegneria (DEIB)  
Via Ponzio, 34/5 20133 Milano (MI), Italy  
Phone: (+39) 02 2399 4028  
E-mail: [lucrezia.manieri@polimi.it](mailto:lucrezia.manieri@polimi.it)



## EDUCATION

**PhD in Information Technology | Systems and Control** February 2024  
*Politecnico di Milano* *Milan, Italy*

PhD thesis: “Control of large-scale MLD systems via multi-agent reformulation and decentralized optimization”

Advisor: prof. Maria Prandini

Co-advisor: prof. Alessandro Falsone

Grade:

**Master of Sciences in Automation and Control Engineering** Oct. 2020  
*Politecnico di Milano* *Milan, Italy*

Master thesis: “Large-scale MILP solution via a multi-agent reformulation”

Advisor: prof. Maria Prandini

Co-advisor: prof. Alessandro Falsone

Grade: 110/110 cum laude

Honours Programme: “Scientific Research in Information Technology”

**Bachelor of Sciences in Automation and Control Engineering** Sep. 2018  
*Politecnico di Milano* *Milan, Italy*

Grade: 110/110 cum laude

**High school Diploma** July 2015  
*Liceo Scientifico “Ettore Majorana”* *Orvieto, Italy*

Project: “Long Black Train” an analysis of the role of trains through history, philosophy, physics and art

Grade: 100/100 cum laude

## POSITIONS HELD

**Research Fellow** November 2023 - Today  
*Politecnico di Milano* *Milan, Italy*

Research Project: “Scenario approach for control and non-convex design”

**Visiting PhD Student** January 2023 - March 2023  
*Department of Engineering Science, University of Oxford* *Oxford, UK*

**PhD Student in Information Technology** November 2020 - October 2023  
*Politecnico di Milano* *Milan, Italy*

## TEACHING ACTIVITIES

### TEACHING ASSISTANT

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**COURSE:** **Fondamenti di Automatica**  
*B.Sc degree in Automation and Control Engineering - 10 CFU*

**PERIOD(S):** March 2023 - June 2023 (25 hrs)  
March 2022 - June 2022 (36 hrs)  
March 2021 - June 2021 (36 hrs)

**UNIVERSITY:** Politecnico di Milano

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### LABORATORY ASSISTANT

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**COURSE:** **Fondamenti di Automatica**  
*B.Sc degree in Automation and Control Engineering - 10 CFU*

**PERIOD(S):** March 2023 - June 2023 (9 hrs)  
March 2022 - June 2022 (9 hrs)  
March 2021 - June 2021 (9 hrs)

**UNIVERSITY:** Politecnico di Milano

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**COURSE:** **Nonlinear Control**  
*M.Sc degree in Automation and Control Engineering - 5 CFU*

**PERIOD(S):** December 2022 (8 hrs)

**UNIVERSITY:** Politecnico di Milano

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## SCHOLARSHIPS

**PhD Scholarship** | PhD program in Information Technology 2020 – 2023  
MINISTERO DELL'ISTRUZIONE, DELL'UNIVERSITÀ E DELLA RICERCA *Italy*

**Borsa di Studio CRO** | Merit-based scholarship to support B.Sc. studies 2015 – 2018  
FONDAZIONE CASSA DI RISPARMIO DI ORVIETO (CRO) *Italy*

## AWARDS

**“Nicola Schiavoni” Award** 2021  
Awarded by Politecnico di Milano to the best master thesis on the “Development of innovative methodologies for automation and control” presented in 2019–2020.

## LICENSES AND CERTIFICATIONS

- Professional Licence in Industrial Engineering** February 2021  
*Esame di stato, Ingegneria Industriale Sezione A*  
Issuer: FOIM (Fondazione dell'Ordine degli Ingegneri della Provincia di Milano)
- International English Language Testing System (IELTS)** February 2018  
Overall band score: 8.0 - CEFR level: C1  
Listening 8.5/10 | Reading 9.0/10 | Writing 7.0/10 | Speaking 7.5/10

## CONFERENCES AND WORKSHOPS

- 22<sup>nd</sup> IFAC World Congress** July 2023  
*Yokohama, Japan*
- 60<sup>th</sup> Conference on Decision and Control** December 2021  
*Austin, Texas (held online)*

## PUBLICATIONS

### JOURNAL PAPERS

- [J1] Lucrezia Manieri, Alessandro Falsone, and Maria Prandini. “Hyper-graph partitioning for a multi-agent reformulation of large-scale MILPs”. In: *IEEE Control Systems Letters* 6 (2021), pp. 1346–1351.
- [J2] Lucrezia Manieri, Alessandro Falsone, and Maria Prandini. “Probabilistic feasibility in data-driven multi-agent non-convex optimization”. In: *Annual Reviews in Control XX* (2023), p. XXX.

### CONFERENCE PAPERS

- [C1] Lucrezia Manieri, Alessandro Falsone, and Maria Prandini. “A Novel Decentralized Approach to Large-Scale Multi-Agent MILPs”. In: *22nd IFAC World Congress*. Vol. 2023. Yokohama, 2023.

### BOOK CHAPTERS

- [B1] Lucrezia Manieri, Alessandro Falsone, and Maria Prandini. “Handling Complexity in Large Scale Cyber-Physical Systems through Distributed Computation”. In: *Computation-Aware Algorithmic Design for Cyber-Physical Systems*. Springer Nature Switzerland, 2023.