

Matteo Cederle



Italian



matteo.cederle@phd.unipd.it



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mcederle99







(+39) 3930740011



Via Vendramini 26, 35137 Padova, Italy



Education

- 2023 – Current  **Ph.D., University of Padova, dept. of Information Engineering**
Project title: *Advancing Fairness and Efficiency in Smart Mobility: A Reinforcement Learning and Game Theoretic Perspective.*
Ph.D. funded by MOST - Sustainable mobility center.
- 2021 – 2023  **M.Sc. Control Systems Engineering, University of Padova**
Final grade: 110 cum laude. GPA: 29.034/30
Thesis: *Multi Agent Reinforcement Learning for Smart Mobility and Traffic Scenarios.*
- 2018 – 2021  **B.Sc. Information Engineering, University of Padova**
Final grade: 110 cum laude. GPA: 28.707/30
Thesis: *Control of robotic systems using wearable electromyography electrodes.*
- 2013 – 2018  **Scientific High School Diploma, Liceo Scientifico Ippolito Nievo, Padova**
Final grade: 100/100





Academic appointments

- 02-07/2025  **Visiting Researcher, ETH Zürich – Automatic Control Laboratory (IfA)**
Project description: *Reinforcement Learning for artificial currency-driven economies.*

Attendance to Graduate Schools



- 09/2024  **Summer course on Multi-Agent Reinforcement Learning (online)**
<https://iia.csic.es/en-us/marl-course/>
- 06/2024  **7th Advanced Course on Data Science & Machine Learning - ACDL 2024**
<https://acdl2024.icas.events/>

Technical and Soft Skills


- Languages  **Italian:** Native. **English:** Advanced. **Spanish:** Intermediate
- Coding  Python, C++, Java, R, Matlab & Simulink, \LaTeX
- Soft Skills  Academic research, teaching, training. Team work
- Research Interests  Reinforcement Learning, Deep Learning & AI, Smart Mobility Applications

Experience

Teaching Experience

- 2024  **Laboratory Tutor**, Master course in Machine Learning, University of Padova.
- 2023 – Current  **Master's and Bachelor's thesis advisor for several students**, University of Padova.








Sport Experience

- 2017 – 2019  **Member of the Under 20 National Team**, Italian Fencing Federation.







Networks and Memberships

- 02/2025 – 07/2025  **Automatic Control Laboratory (IfA)**, ETH Zürich.
2023 – Current  **AMCO research group**, University of Padova.

Awards and Achievements

- 2024  **Bosch Future Mobility Challenge**, Second place. Mentor of the team.
2023  **Bosch Future Mobility Challenge**, Second place. Member of the team.
2020  **Scholarship “Mille e una Lode”**, University of Padova.
 **Scholarship “Incentivazione allo studio”**, Italian Fencing Federation.
2019  **Scholarship “Incentivazione allo studio”**, Italian Fencing Federation.
2018  **Scholarship “Incentivazione allo studio”**, Italian Fencing Federation.
2014 – 2022  **Winner of several medals at National and International fencing competitions.**

Research Publications & Conference Talks

- 1 M. Cederle, M. Fabris, and G. A. Susto, “A fairness-oriented multi-objective reinforcement learning approach for autonomous intersection management,” *J3C 2025 - Joint Conference on Computers, Cognition and Communication*, 2025.  URL: <https://arxiv.org/pdf/2507.09311>.
- 2 M. Cederle, M. Fabris, and G. A. Susto, “Regulating spatial fairness in a tripartite micromobility sharing system via reinforcement learning,” in *IES 2025 - Statistical Methods for Evaluation and Quality*, 2025, pp. 1089–1096.  URL: <https://ies2025.sis-statistica.it/book-of-short-paper/>.
- 3 M. Cederle, A. Mazzucco, A. Demartini, *et al.*, “Explainable anomaly detection for electric vehicles charging stations,” *J3C 2025 - Joint Conference on Computers, Cognition and Communication*, 2025.  URL: <https://arxiv.org/pdf/2507.15718>.
- 4 M. Cederle, L. V. Piron, M. Ceccon, *et al.*, “A fairness-oriented reinforcement learning approach for the operation and control of shared micromobility services,” *ACC 2025 - American Control Conference*, 2025.  URL: <https://arxiv.org/abs/2403.15780>.
- 5 E. Isgandarov, M. Cederle, F. Chiariotti, and G. A. Susto, “Towards explainable anomaly detection in shared mobility systems,” *J3C 2025 - Joint Conference on Computers, Cognition and Communication*, 2025.  URL: <https://arxiv.org/pdf/2507.15643>.
- 6 M. Cederle, M. Fabris, and G. A. Susto, “A distributed approach to autonomous intersection management via multi-agent reinforcement learning,” in *ATT@ECAI*, vol. 3813(1), 2024, pp. 1–15.  URL: <https://ceur-ws.org/Vol-3813/1.pdf>.