Matteo Papini

Ph.D. Student at Politecnico di Milano

Personal Information

First Name	Matteo.
Last Name	Papini.
Date of Birth	July 5th, 1993.
Place of Birth	Sondrio, Italy.
Citizenship	Italian.

Work Information

Institution	Politecnico di Milano.
Department	Dipartimento di Elettronica, Informazione e Bioingegneria (DEIB).
Laboratory	Artificial Intelligence and Robotics Laboratory (AIRLAB).
Office	34/5 Via Ponzio, 20133 Milan, Italy.
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Education

2017–present	**Ph.D. student**, *Politecnico di Milano*, Milan, Italy. Advisor: Marcello Restelli
2015–2017	**Master of Science, Computer Science and Engineering**, *Politecnico di Milano*, Milan, Italy. *Final Mark:* 110/110 cum laude *Master Thesis*: Adaptive Batch Size for Safe Policy Gradient Methods *Advisor*: Marcello Restelli
2012–2015	**Bachelor of Science, Computer Engineering**, *Politecnico di Milano*, Milan, Italy. *Final Mark:* 110/110 cum laude

Research Interests

My main research interest is *reinforcement learning (RL)*, with a focus on *policy* , *safe exploration* and applications of RL to *Industry 4.0*.

Research Experience

2017–present	**Research Assistant**, *Dipartimento di Elettronica, Informazione e Bioingegneria, Politecnico di Milano*, Milan, Italy. *Research Topic:* Reinforcement Learning for Industry 4.0

Teaching Experience

Autumn 2018   **Teaching Assistant**, *Politecnico di Milano*.
Informatica B (introductory computer science class)
Prof. Luca Cassano

Spring 2018   **Teaching Assistant**, *Politecnico di Milano*.
Web and Internet Economics
Prof. Nicola Gatti

Autumn 2017   **Lab Assistant**, *Politecnico di Milano*.
Informatica B (introductory computer science class)
Prof. Luca Cassano

Spring 2016   **Lab Tutor**, *Politecnico di Milano*.
Prova Finale–Ingegneria del Software (software engineering: final project)
Prof. Carlo Ghezzi

Schools and Exchange Programs

2018   **Deep Learning and Reinforcement Learning Summer School**, Toronto, Canada.

2017   **ACAI Summer School on Reinforcement Learning**, Nieuwpoort, Belgium.

Autumn 2016   **Erasmus Programme**, KTH Royal Institute of Technology, Stockholm, Sweden.

Languages

Italian, *mother tongue*.

English, *fluent (FCE, Grade A, C1 level)*.

Publications (Conference Papers)

[1]   Alberto Maria Metelli, **Matteo Papini**, Francesco Faccio, and Marcello Restelli. Policy optimization via importance sampling. In S. Bengio, H. Wallach, H. Larochelle, K. Grauman, N. Cesa-Bianchi, and R. Garnett, editors, *Advances in Neural Information Processing Systems 31*, pages 5443–5455. Curran Associates, Inc., 2018.

[2]   **Matteo Papini**, Damiano Binaghi, Giuseppe Canonaco, Matteo Pirotta, and Marcello Restelli. Stochastic variance-reduced policy gradient. In Jennifer Dy and Andreas Krause, editors, *Proceedings of the 35th International Conference on Machine Learning*, volume 80 of *Proceedings of Machine Learning Research*, pages 4026–4035, Stockholmsmässan, Stockholm Sweden, 10–15 Jul 2018. PMLR.

[3]   **Matteo Papini**, Matteo Pirotta, and Marcello Restelli. Adaptive batch size for safe policy gradients. In I. Guyon, U. V. Luxburg, S. Bengio, H. Wallach, R. Fergus, S. Vishwanathan, and R. Garnett, editors, *Advances in Neural Information Processing Systems 30*, pages 3591–3600. Curran Associates, Inc., 2017.

Workshop Papers

[W1]   **Matteo Papini**, Andrea Battistello and Marcello Restelli. Safely Exploring Policy Gradient. In 14th European Workshop on Reinforcement Learning, Lille, France, 2018.

Editorial Activities

2019   **Reviewer**, *Neural Information Processing Systems (NeurIPS)*.

2019   **PC Member**, *Conference on Uncertainty in Artificial Intelligence (UAI)*.

2019   **Reviewer**, *International Conference on Machine Learning (ICML)*.

2018   **Subreviewer**, *International Joint Conference on Artificial Intelligence (IJCAI)*.

Mentoring and Advising

Master students:

2018–present   Giovanni Pelosi.

2018–present   Lorenzo Lupo.

2018   Andrea Battistello.

2017–2018   Francesco Faccio.

2017–2018   Giuseppe Canonaco.

2017–2018   Damiano Binaghi.