AMARILDO LIKMETA

Milan, Italy
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SUMMARY

A PhD student of the "Data Science and Computation" Phd programme of the University of Bologna and Politecnico di Milano, working in combining planning and Reinforcement Learning techniques to solve sequential decision making tasks. My main interests include Artificial Intelligence and Machine Learning in general, Reinforcement Learning in particular. I am a hard-working, adaptable, and reliable person, in the early stages of my academic career with a keen interest in expanding my knowledge in Machine Learning and contributing to the research community.

PERSONAL INFORMATION

Date of Birth: 16 August 1995
Place of Birth: Durres, Albania
Citizenship: Albanian

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EDUCATION

Univesita di Bologna - Politecnico di Milano, Italy **November 2019 - Present**
PhD Student in Data Science and Computation
Dipartimento di Farmacia e Biotecnologie

Politecnico di Milano, Italy **September 2016 - October 2018**
Master of Science, Computer Science and Engineering 110/110 (with honours)
Dipartimento di Elettronica, Informazione e Bioingegneria

Polytechnic University of Tirana, Albania **September 2013 - July 2016**
Bachelor of Science, Computer Science and Engineering. 9.7/10 (with honours)

PROFESSIONAL EXPERIENCE

Research Assistant, Politecnico di Milano, DEIB **October 2018 - November 2019**
Artificial Intelligence and Robotics Laboratory

· Worked on designing and implementing novel RL algorithms, and applying RL to real life problems.

Full Stack Developer **April 2018 - August 2018**
Geos Consult srl

· Designed and implemented various web business solutions.

TEACHING ACTIVITIES

Teaching Assistant, Informatica B BSc. course **October 2019 - Present**

· Taught programming concepts for C and Matlab

Laboratory Assistant, Software Engireening BSc. course **March 2019 - July 2019**

· Supervised 120 students in completing their final project of the BSc. Degree.

PUBLICATIONS

1. Amarildo Likmeta, Sacco Matteo, Alberto Maria Metelli, and Marcello Restelli. Wasserstein actor-critic: Directed exploration via optimism for continuous-actions control. In *The 37th AAAI conference on Aritifcial Intelligence (Accepted)*. 2023
2. Lorenzo Moro, Amarildo Likmeta, Encrico Prati, and Marcello Restelli. Goal-directed planning via hindsight experience replay (accepted). In *International Conference on Learning Representations*. 2022
3. Edoardo Vittori, Amarildo Likmeta, and Marcello Restelli. Monte carlo tree search for trading and hedging. In *Proceedings of the Second International Conference on Artificial Intelligence for Finance*, Nov 2021
4. Amarildo Likmeta, Alberto Maria Metelli, Giorgia Ramponi, Andrea Tirinzoni, Matteo Giuliani, and Marcello Restelli. Dealing with multiple experts and non-stationarity in inverse reinforcement learning: an application to real-life problems. *Machine Learning*, Mar 2021
5. Amarildo Likmeta, Alberto Maria Metelli, Andrea Tirinzoni, Riccardo Giol, Marcello Restelli, and Danilo Romano. Combining reinforcement learning with rule-based controllers for transparent and general decision-making in autonomous driving. *Robotics and Autonomous Systems*, page 103568, 2020
6. Giorgia Ramponi, Amarildo Likmeta, Alberto Maria Metelli, Andrea Tirinzoni, and Marcello Restelli. Truly batch model-free inverse reinforcement learning about multiple intentions. In Silvia Chiappa and Roberto Calandra, editors, *Proceedings of the Twenty Third International Conference on Artificial Intelligence and Statistics*, volume 108 of *Proceedings of Machine Learning Research*, pages 2359–2369, Online, 26–28 Aug 2020. PMLR
7. Alberto Maria Metelli, Amarildo Likmeta, and Marcello Restelli. Propagating uncertainty in reinforcement learning via wasserstein barycenters. In *Advances in Neural Information Processing Systems 32*, pages 4335–4347. Curran Associates, Inc., 2019

RESEARCH PROJECTS

Magneti Marelli **October 2018- March 2020**
Reinforcement Learning for Autonomous Driving

LANGUAGES AND SKILLS

Languages

1. Albanian (Native)
2. English (Proficient, C1)
3. Italian (Proficient, C1)

Computer and Analytical Skills

1. **Programming Languages:** Python, C#, C/C++, Java, Javascript, R, PHP
2. **Frameworks:** Tensorflow, ASP.NET, Android, Spring MVC, OpenMP, MPI, OpenCL, Angular
3. **IDEs:** Pycharm, Visual Studio, Eclipse, NetBeans, DevC++, Visual Studio Code
4. **Competences:** Data Analysis, Machine Learning, Statistical Inference, Deep Learning

THESIS SUPERVISION

1. Matteo Sacco. Directed exploration in continuous-action reinforcement learning via uncertainty-aware agents. Master's thesis, Politecnico di Milano, 2022
2. Jacopo Germano. Planning in stochastic environments through policy optimization with mediator feedback. Master's thesis, Politecnico di Milano, 2021
3. Diego Piccinotti. Open loop planning for formula 1 race strategy identification. Master's thesis, Politecnico di Milano, 2021
4. Pietro Menchetti. Partial observability in autonomous driving. Master's thesis, Politecnico di Milano, 2020
5. Andrea Mecchia. Batch reinforcement learning for highway driving. Master's thesis, Politecnico di Milano, 2020
6. Giovanni Lucente. Reinforcement learning for autonomous driving:comfort and robustness to noise. Master's thesis, Politecnico di Milano, 2020
7. Giuseppe Mascellaro. Inverse reinforcement learning for autonomous driving. Master's thesis, Politecnico di Milano, 2019
8. Riccardo Giol. Reinforcement learning for high-level decision-making in autonomous driving. Master's thesis, Politecnico di Milano, 2019