

Maciej Wołczyk

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Education

2019 – Now	PhD, Jagiellonian University, Kraków Doctoral School of Exact and Natural Sciences, Computer Science
2017 – 2019	MSc, Jagiellonian University, Kraków (rector's scholarship) Faculty of Mathematics and Computer Science Computer Science, specialization in machine learning
2014 – 2017	BSc, Jagiellonian University, Kraków (rector's scholarship) Faculty of Physics, Astronomy and Computer Science Computer Science

Research experience in the industry

III 2021 – X 2021	Lyft/Woven Planet Level 5 Internship in autonomous vehicles research team. Developing new solutions and implementing them in a real-world production setting.
VI 2017 – IX 2017	Samsung R&D Internship in Natural Language Processing team

Research experience in academia

III 2022 - VI 2022	Internship at ETH Zurich with prof. João Sacramento Investigating performance hypernetworks in meta reinforcement-learning and fast recall in continual learning
XI 2019 – Now	FNP grant, Bio-inspired artificial neural networks Stipendist, investigating intersections of neuroscience and ML
X 2018 – III 2020	NCN grant, Efficient unsupervised learning with applications in deep learning Stipendist, investigating generative models
X 2018 – Now	Group of Machine Learning Research, Jagiellonian University PhD student, teacher assistant, server administrator

Science popularization

VII 2022	Workshop on Dynamic Neural Networks, ICML 2022 Member of Program Committee
VII 2022	ML2Mind Summer School Co-organizer
VII 2020	Eastern Europe Machine Learning Summer School Co-organizer

Selected publications

XII 2022	NeurIPS 2022 Disentangling Transfer in Continual Reinforcement Learning First co-author. We study transfer in continual reinforcement learning and provide recommendations, highlighting replay and exploration.
VII 2022	ICML 2022 Continual Learning with Guarantees via Weight Interval Constraints First co-author. We propose a continual learning approach based on interval arithmetics that provides guarantees on forgetting.
V 2022	ICRA 2022 SafetyNet: Safe Planning for Real-World Self-Driving Vehicles Using Machine Learned Policies Co-author. We combine machine learning policy for autonomous vehicles with rule-based safety constraints.
II 2022	AAAI 2022 PluGeN: Multi-Label Conditional Generation From Pre-Trained Models First co-author. We propose a method to adapt pre-trained generative models for conditional multi-label sample generation.
XII 2021	NeurIPS 2021 Continual World: A Robotic Benchmark For Continual Reinforcement Learning First co-author. We introduce a benchmark for continual reinforcement learning and perform an analysis of the problem.
XII 2021	NeurIPS 2021 Zero Time Waste: Recycling Predictions in Early Exit Neural Networks First co-author. We accelerate neural networks and reduce computation waste through efficient early exits.
X 2021	CoRL 2021 Urban Driver: Learning to Drive from Real-world Demonstrations Using Policy Gradients Co-author. We train imitation learning-based planning methods for autonomous vehicles and test them in the real world.
VIII 2020	IEEE Transactions on Neural Networks and Learning Systems SeGMA: Semi-Supervised Gaussian Mixture Auto-Encoder Co-author. We combine generative models and semi-supervised learning by modeling the latent space as a mixture of Gaussians.

Other

Technical skills	PyTorch, TensorFlow, Python, Bash, Linux, Git, Docker, Slurm
Reviewer at (* denotes highlighted reviewer)	ICML 2021*, NeurIPS 2021, ICLR 2022*, ICML 2022*, NeurIPS 2022

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