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

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	**GMUM** PhD student, teacher assistant, server administrator

Science popularization

VII 2022	**ML2Mind Summer School** Co-organizer
VII 2020	**Eastern Europe Machine Learning Summer School** Co-organizer
XI 2019	**ML in PL Conference** Co-organizer of workshops on policy gradient methods

Selected publications

II 2022	AAAI 2022 **PluGeN: Multi-Label Conditional Generation From Pre-Trained Models** First co-author of a paper proposing a method for adapting 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 of a paper introducing benchmark for continual reinforcement learning and performing analysis of the problem
XII 2021	NeurIPS 2021 **Zero Time Waste: Recycling Predictions in Early Exit Neural Networks** First co-author of a paper on accelerating neural networks and reducing computation waste through early exits
X 2021	CoRL 2021 **Urban Driver: Learning to Drive from Real-world Demonstrations Using Policy Gradients** Co-author of a paper on training imitation learning-based planning methods for autonomous vehicles, tested in the real world
II 2021	AAAI 2021 (Student Abstract) **Remember More by Recalling Less: Investigating the Role of Batch Size in Continual Learning with Experience Replay** First author of a paper investigating properties of experience replay methods in continual learning
IX 2020	ECML-PKDD 2020 **Finding the Optimal Network Depth in Classification Tasks** Co-author of a paper on automatic discovery of the optimal depth of neural networks for efficient inference
VIII 2020	IEEE Transactions on Neural Networks and Learning Systems **SeGMA: Semi-Supervised Gaussian Mixture Auto-Encoder** Co-author of a paper on combining generative models and semi-supervised learning
IX 2019	28th International Conference on Artificial Neural Networks **Hypernetwork functional image representation** Co-author of a paper on representing images and other data as functions parametrized by neural networks

Other

ML frameworks	PyTorch, TensorFlow (v1 and v2)
Technical skills	Python, Bash, Linux, Git, Docker, Kubernetes, Slurm
Reviewer at	ICML 2021 (top 10% reviewers), NeurIPS 2021, ICLR 2022