

## Maciej Wołczyk

Email	maciej.wolczyk@gmail.com	Place of residence	Kraków, Poland
Phone no.	(+48) 506 297 506	Date of birth	06.12.1995
GitHub	<a href="#">maciejwolczyk</a>	Google Scholar	<a href="#">Link</a>

### Education

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

### Research experience in the industry

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

### Research experience in academia

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<b>XI 2019 – Now</b>	<b>FNP grant, Bio-inspired artificial neural networks</b> Stipendist, investigating intersections of neuroscience and ML
<b>X 2018 – III 2020</b>	<b>NCN grant, Efficient unsupervised learning with applications in deep learning</b> Stipendist, investigating generative models
<b>X 2018 – Now</b>	<b>GMUM</b> PhD student, teacher assistant, server administrator

### Science popularization

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

## Selected publications

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<b>XII 2021</b>	NeurIPS 2021 <b>Continual World: A Robotic Benchmark For Continual Reinforcement Learning</b> First co-author of a paper introducing benchmark for continual reinforcement learning and performing analysis of the problem
<b>XII 2021</b>	NeurIPS 2021 <b>Zero Time Waste: Recycling Predictions in Early Exit Neural Networks</b> First co-author of a paper on accelerating neural networks and reducing computation waste through early exits
<b>X 2021</b>	CoRL 2021 <b>Urban Driver: Learning to Drive from Real-world Demonstrations Using Policy Gradients</b> Co-author of a paper on training imitation learning-based planning methods for autonomous vehicles, tested in the real world
<b>II 2021</b>	AAAI 2021 (Student Abstract) <b>Remember More by Recalling Less: Investigating the Role of Batch Size in Continual Learning with Experience Replay</b> First author of a paper investigating properties of experience replay methods in continual learning
<b>IX 2020</b>	ECML-PKDD 2020 <b>Finding the Optimal Network Depth in Classification Tasks</b> Co-author of a paper on automatic discovery of the optimal depth of neural networks for efficient inference
<b>VIII 2020</b>	IEEE Transactions on Neural Networks and Learning Systems <b>SeGMA: Semi-Supervised Gaussian Mixture Auto-Encoder</b> Co-author of a paper on combining generative models and semi-supervised learning
<b>XII 2019</b>	"Real Neurons and Hidden Units", NeurIPS 2019 workshop <b>Biologically-Inspired Spatial Neural Networks</b> First author of a paper on extending artificial neurons with spatial information
<b>IX 2019</b>	28th International Conference on Artificial Neural Networks <b>Hypernetwork functional image representation</b> Co-author of a paper on representing images and other data as functions parametrized by neural networks

## Skills

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<b>ML frameworks</b>	PyTorch, TensorFlow (v1 and v2)
<b>Other technical</b>	Python, Bash, Linux, Git, Docker, Kubernetes, Slurm
<b>Languages</b>	Polish (native), English (fluent)

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