

Michał Bortkiewicz

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EDUCATION

- 06.2025 – 06.2026 **Princeton University**
Visiting Student Research Collaborator at RL Lab
Supervisor: Prof. Benjamin Eysenbach
- 10.2021 - 06.2026 **Warsaw University of Technology**
PhD in Computer Science
Advisors: Prof. Tomasz Trzciński and Prof. Piotr Miłoś
- 10.2015 - 02.2021 **Warsaw University of Technology**
M.S. with Distinction in Data Science (GPA: 4.6/5.0)
B.E. in Automation and Robotics (GPA: 4.4/5.0)

SELECTED PUBLICATIONS

- Kevin Wang, Ishaan Javali, **Michał Bortkiewicz**, Tomasz Trzciński, Benjamin Eysenbach.
1000 Layer Networks for Self-Supervised RL: Scaling Depth Can Enable New Goal-Reaching Capabilities.
NeurIPS 2025 (Oral, Best Paper Award) <https://wang-kevin3290.github.io/scaling-crl/>
- Alicja Ziarko, **Michał Bortkiewicz**, Michał Zawalski, Benjamin Eysenbach, Piotr Miłoś.
Contrastive Representations for Combinatorial Reasoning.
NeurIPS 2025 <https://princeton-rl.github.io/CRTR/>
- **Michał Bortkiewicz**, Włodek Pałucki, Vivek Myers, Tadeusz Dziarmaga, Tomasz Arczewski, Łukasz Kuciński, Benjamin Eysenbach.
Accelerating Goal-Conditioned RL Algorithms and Research.
ICLR 2025 (Spotlight) <https://arxiv.org/abs/2408.11052>
- Alex Lewandowski, **Michał Bortkiewicz**, Saurabh Kumar, András György, Dale Schuurmans, Mateusz Ostaszewski, Marlos C. Machado.
Learning Continually by Spectral Regularization.
ICLR 2025 <https://arxiv.org/abs/2406.06811>
- Michał Nauman*, **Michał Bortkiewicz***, Mateusz Ostaszewski, Piotr Miłoś, Tomasz Trzciński, Marek Cygan.
Overestimation, Overfitting, and Plasticity in Actor-Critic: The Bitter Lesson of RL.
ICML 2024 (*equal contribution) <https://arxiv.org/abs/2403.00514>
- Maciej Wołczyk, Bartłomiej Cupiał, Mateusz Ostaszewski, **Michał Bortkiewicz**, Michał Zajac, Razvan Pascanu, Łukasz Kuciński, Piotr Miłoś.
Fine-tuning Reinforcement Learning Models Is Secretly a Forgetting Mitigation Problem.
ICML 2024 (Spotlight) <https://arxiv.org/abs/2402.02868>

INDUSTRY EXPERIENCE

- Creator Fund** Venture Fellow Apr 2023 - Feb 2024
- Technical calls with founders of early-stage companies (pre-seed, seed) to assess the status of the deep learning stack, conduct due diligence, and source deals.
- Samsung Research** Deep Learning Research Engineer Nov 2021 - May 2022
- Researched novel on-device speech recognition methods using transformers, harmonic CNNs, and RNNs.

- Developed a containerised inspection tool for audio datasets exploration and model performance checks that was employed in the workflow of audio teams as a first step of the EDA.
- Introduced an efficient dataset management strategy using DVC and GIT for faster project iterations and inter-project data sharing.

Airspace Intelligence Machine Learning Engineer May 2021 - Oct 2021

- Delivered actionable insights based on air traffic data, leveraging statistical tools for online monitoring.
- Deployed Python microservice for taxi-time prediction, reducing Flyways AI platform MSE by 12% and enabling new scheduling features.
- Developed high-quality software using best practices: unit testing, containerisation, and code reviews.

Scope Fluidics Data Scientist Oct 2018 - May 2021

- Led the research and development of bacteria growth prediction methods based on ConvLSTM and Transformer architectures for accurate and fast detection. Reduced the binary classification error rate from 10% to 3% and made it possible to infer bacterial growth earlier for a wide array of antibiotics.
- Introduced MLOps practices in the organization using Azure ML, including experiment tracking, model versioning, and drift monitoring.

SpaceForest R&D Software Intern Jul 2018 - Aug 2018

- Developed extensions for 2D and 3D rocket simulators and PID controller for CARBONARA 2 rocket.

PROJECTS

• **JaxGCRL** [GitHub](#)

Online Goal-Conditioned Reinforcement Learning benchamrk and codebase in JAX. Code for the publication *"Accelerating Goal-Conditioned RL Algorithms and Research"*.

• **ScalingCRL** [GitHub](#)

Code for the publication *"1000 Layer Networks for Self-Supervised RL: Scaling Depth Can Enable New Goal-Reaching Capabilities"*, with emphasis on scalable network architectures for RL.

HONORS / AWARDS

Best Paper Award NeurIPS 2025:
1000 Layer Networks for Self-Supervised RL: Scaling Depth Can Enable New Goal-Reaching Capabilities
Contribution: Developed key components of the codebase, led manuscript writing, assisted in experiment ideation, and executed a portion of the experiments.

University Distinction:
Top 5% of Master’s students for two consecutive semesters, Warsaw University of Technology.

SERVICE

Reviewer	Organizer / Presenter	Teaching
• ICLR 2025, 2026	• DSS 2022 – Chairman of the	• Introduction to Artificial Intelligence (2023–
• NeurIPS 2024	Computer Vision Track	2025 Warsaw University of Technology)
• CoLLAs 2025	• MLinPL 2024 – Main Track	• Reinforcement Learning (2025 University of
	Presentation	Warsaw)

Mentoring: I have supervised over five Master’s students working on reinforcement learning and contrastive learning methods, including projects with industry applications for Scope Fluidics.

SKILLS

Research & Methods: RL, Contrastive Learning, Continual Learning, Transformers, Plasticity Analysis
Programming & Tools PyTorch, Jax, NumPy, Git, Slurm, Docker, Bash, uv, wandb, MuJoCo, Brax