

Ivan Anokhin

PhD Student

Montreal

✉ i.anokhin.mm@gmail.com

avecplezir.github.io/ivananokhin

Education

08.2023 – now	PhD in Computer Science, Mila, University of Montreal, Advisor: Irina Rish, Topic: Scalable Reinforcement Learning Systems.
2017 – 2019	Master in Data Science, Skolkovo Institute of Science and Technology, Advisor: Dmitry Yarotsky, Thesis: Loss Surface of a Deep Neural Network.
2012 – 2016	BSc in Applied Mathematics and Computer Science, St. Petersburg State University.

Experience

08.2023–now	PhD, Mila. Led a project on handling delay in real-time RL, proposed the method, led experiments, theory development, and the write-up, accepted to ICLR2025. Co-led biologically inspired credit assignment in the presence of delay; originated the idea and led RL experiments, currently under submission. Contributed to continual RLHF benchmark project, benchmarked DPO/PPO, implemented metrics, published in ICML 2025 workshop.
02.2023–09.2023	Research Assistant (remote), Cambridge University. Worked on Model-Based Offline RL, contributed to planning project, published in NeurIPS2023.
06.2021–11.2022	Research Scientist, Yandex. Developed a framework to learn image representation object-wise for unsupervised object detection. Led a team of two students. Worked on an SSL method to learn representations from long videos (e.g. EPIC Kitchen).
03.2020–01.2022	Junior Research Scientist, Skoltech. Investigated properties of the ensemble methods with reduced memory consumption on inference and high accuracy (e.g. BatchEnsemble). Published in AISTATS2022. Investigated loss surface of neural networks. Published in ICML2020.
04.2019–06.2021	Deep Learning Engineer, Samsung AI Center. Developed a generator architecture for GAN without any pixel-interaction after style(noise) conditioning. Published in CVPR2021. Developed generative image-to-image model with style (day-time of an image) and content (landscape) disentanglement. Published in CVPR2020. Worked on robot navigation in an indoor environment. Added physics into the environment simulator; debugged a robot in a real environment.
12.2016–08.2018	Lead Analyst (ML), Tinkoff Bank. Developed, implemented and tuned Slot-filling and Information Retrieval transformer-based neural network architectures for the chatbot. Slot-filling and IR models were deployed.

Technical skills

Proficient in:	Python, Pytorch, git, Latex
Familiar with:	Keras, SQL, Tensorflow, Java, Matlab, C++

Service and Teaching

Reviewer	ICML21-22, ICLR22-23, NEURIPS22-25
Lecturer	Invited lecturer on deep learning, GoTo summer camp for high-schoolers, 2020 & 2021 multi-day sessions.

Publications

ICLR 2026 submission	Learning From the Past with Cascading Eligibility Traces. Tokiniaina Raharison Ralambomihanta*, Ivan Anokhin* , Roman Pogodin*, Samira Ebrahimi Kahou, Jonathan Cornford, Blake Aaron Richards Paper, Code
ICML2025 workshop	AIF-GEN: Open-Source Platform and Synthetic Dataset Suite for Lifelong Reinforcement Learning on Large Language Models. Jacob Chmura*, Shahrar Mohammadzadeh*, Ivan Anokhin , Jacob-Junqi Tian, Mandana Samiei, Taz Scott-Talib, Irina Rish, Doina Precup, Reihaneh Rabbany, Nishanth Anand Paper, Code
ICLR 2025	Handling Delay in Real-Time Reinforcement Learning. Ivan Anokhin , Rishav Rishav, Matthew Riemer, Stephen Chung, Irina Rish, Samira Ebrahimi Kahou Paper, Code, Blog post
ICML 2024 workshop	Handling Delay in Reinforcement Learning Caused by Parallel Computations of Neurons. Ivan Anokhin , Rishav Rishav, Stephen Chung, Irina Rish, Samira Ebrahimi Kahou
NeurIPS 2023	Thinker: Learning to Plan and Act. Stephen Chung, Ivan Anokhin , David Krueger. Project Page
AISTATS 2022	Embedded Ensembles: Infinite Width Limit and Operating Regimes. Maksim Velikanov, Roman Kail, Ivan Anokhin , Roman Vashurin, Maxim Panov, Alexey Zaytsev, Dmitry Yarotsky. Paper
CVPR 2021	Image Generators with Conditionally-Independent Pixel Synthesis. Ivan Anokhin , Kirill Demochkin, Taras Khakhulin, Gleb Sterkin, Victor Lempitsky, Denis Korzhenkov Paper Code
CVPR 2020	High-resolution daytime translation without domain labels. Ivan Anokhin* , Pavel Solovev*, Denis Korzhenkov*, Alexey Kharlamov*, Taras Khakhulin, Aleksei Silvestrov, Sergey Nikolenko, Victor Lempitsky, Gleb Sterkin Project page
ICML 2020	Low-loss connection of weight vectors: distribution-based approaches. Ivan Anokhin and Dmitry Yarotsky Paper, Code