Yury Belousov

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Education

University of Geneva *Geneva, CHE*

PhD in Machine Learning, supported by the Swiss National Science Foundation *Sept 2021 - Current*

- Advised by Professor Slava Voloshynovskiy, part of Stochastic Information Processing group

Higher School of Economics *St. Petersburg, RU*

MS in Data Science *Sept 2019 - Jun 2021*

- Graduated with Distinction
- GPA: 9.2 out of 10
- **Coursework:** Generative Models in Machine Learning, Machine Learning on Big Data, Web Search, Recommender Systems, Driverless Cars

Saint Petersburg State University *St. Petersburg, RU*

BS in Computer Science *Sept 2015 - Jun 2019*

- GPA: 4.7 out of 5
- **Coursework:** Algorithms and Complexity, Architecture and Software for High-Performance Computing, Networks, Machine Learning I & II

Work Experience

University of Geneva *Geneva, CHE*

Research and Teaching Assistant *Sept 2021 - Current*

- Part of SNF Project: Information-theoretic analysis of deep identification systems
- My research focuses on deep learning and deep generative modeling with an application for anti-counterfeiting
- Teaching assistant for the following courses:
    - Data Science (14X026) — Fall 2023, 2022, 2021
    - Multimedia Security and Privacy (14x016) — Spring 2023, 2022

Jetbrains Research *St. Petersburg, RU*

Research Intern · Machine learning researcher *Jul 2020 - Oct 2021*

- I was a member of Machine Learning Applications and Deep Learning group where we participated in different NeurIPS challenges
- Research focus: Black-box optimization, Reinforcement learning and simulation to reality transfer

MTS AI *St. Petersburg, RU*

Deep learning researcher *Feb 2019 - Nov 2019*

Solving and improving various voice tasks to create a voice assistant, primarily speech synthesis

Lanit Tercom *St. Petersburg, RU*

C# Software Developer *Sep 2016 - Jan 2019*

Creating from scratch mobile app for yacht owners, backend development

Achievements

NeurIPS 2020 Competition Track challenges

- Third place in the Black box optimization challenge
- Third place in the AI Driving Olympics (AI-DO) challenge

NeurIPS 2021 Competition Track challenges

- Fourth place in the MineRL Diamond Competition

NeurIPS 2022 Competition Track challenges

- Third place in the Weather4cast Competition — Super-Resolution Rain Movie Prediction under Spatio-temporal Shifts
- Second place in the Second AmericasNLP Competition on Speech-to-Text Translation

All-Russian Student Olympics "Ya — Professional"

- Silver medal in the category of "Programming and Information Technologies" (2021)
- Winner in the category "Artificial Intelligence" (2021, 2020, 2019), "Software Engineering" (2021, 2019), "Business Informatics" (2021), "Big data" (2020, 2019), "Programming and Information Technologies" (2020), "Internet of Things" (2019)

Won eight hackathons

Selected Publications

"Solving Black-Box Optimization Challenge via Learning Search Space Partition for Local Bayesian Optimization" (June 2021). In: *Proceedings of the NeurIPS 2020 Competition and Demonstration Track*. Vol. 133. PMLR.

"Digital twins of physical printing-imaging channel" (Dec. 2022). In: *IEEE International Workshop on Information Forensics and Security (WIFS) 2022*.