# Artyom Gadetsky

PhD student at MLBio EPFL, Lausanne, Switzerland

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**EDUCATION**

**Swiss Federal Institute of Technology (EPFL)** — Sep 2022 – Dec 2026 (expected)
Ph.D. in Computer and Communication Sciences;
Scientific advisor: Prof. Maria Brbić

**National Research University Higher School of Economics** — Sep 2018 – Aug 2020
**Skolkovo Institute of Science and Technology**
Double M.S. with honors in Math of Machine Learning;
Scientific advisor: Prof. Dmitry Vetrov

**National Research University Higher School of Economics** — Sep 2014 – Aug 2018
B.S. with honors in Computer Science, Machine Learning Major;
Scientific advisor: Prof. Dmitry Vetrov

**RESEARCH INTERNSHIPS**

**Apple @ Zurich, Switzerland** — Jun 2025 – Sep 2025
RL post-training and agentic capabilities @ Apple Foundation Models team

**PUBLICATIONS** (**\*** denotes equal contribution)

### CONFERENCES

*Large (Vision) Language Models are Unsupervised In-Context Learners* — ICLR 2025
**Artyom Gadetsky\***, Andrei Atanov\*, Yulun Jiang\*,
Zhitong Gao, Ghazal Hosseini Mighan, Amir Zamir, Maria Brbić

*Let Go of Your Labels with Unsupervised Transfer* — ICML 2024
**Artyom Gadetsky\***, Yulun Jiang\*, Maria Brbić

*Fine-grained Classes and How to Find Them* — ICML 2024
Matej Grcić\*, **Artyom Gadetsky\***, Maria Brbić

*The Pursuit of Human Labeling: A New Perspective on Unsupervised Learning* — NeurIPS 2023 (spotlight)
**Artyom Gadetsky**, Maria Brbić

*Leveraging Recursive Gumbel-Max Trick for Approximate Inference in Combinatorial Spaces* — NeurIPS 2021
Kirill Struminsky\*, **Artyom Gadetsky\***, Denis Rakitin\*,
Danil Karpushkin, Dmitry Vetrov

*Low-variance Black-box Gradient Estimates for the Plackett-Luce Distribution* — AAAI 2020 (oral)
**Artyom Gadetsky\***, Kirill Struminsky\*,
Chris Robinson, Novi Quadrianto, Dmitry Vetrov

*Conditional Generators of Words Definitions* — ACL 2018
**Artyom Gadetsky**, Ilya Yakubovsky, Dmitry Vetrov

### WORKSHOPS

*Low-variance Gradient Estimates for the Plackett-Luce Distribution* — NeurIPS 2019 BDL (spotlight)
**Artyom Gadetsky\***, Kirill Struminsky\*,
Chris Robinson, Novi Quadrianto, Dmitry Vetrov

**AWARDS**

EPFL EDIC Fellowship 2022-2023
Fellowship for highly selected first year Ph.D. students

Yandex ML Prize 2020
Award for outstanding young researchers from CIS region (highly competitive)

The Ilya Segalovich Scholarship 2019, 2021
HSE Computer Science Faculty scholarship for outstanding achievements in study and research

Increased State Academic Scholarship 2018-2020
Scholar in the scientific research section

Open HSE Student Research Paper Competition 2018
Winner (3rd absolute place)

Best student work at DIALOGUE 2018 conference
For the paper "Conditional Generators of Words Definitions"

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| **COMMUNITY SERVICE** | Pre-filtering team at ELLIS PhD, EPFL EDIC PhD | |
| | Reviewer at ICML 2024, 2025, ICLR 2024, 2025, NeurIPS 2023, 2024, AAAI 2021, ACL 2020 | |
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| **STUDENT CO-SUPERVISION** | Yulun Jiang (now PhD at EPFL)<br>Topic: unsupervised transfer learning | |
| | Jan Sobotka<br>Topic: improving visual language models on the semantic segmentation task<br>Hang Guo<br>Topic: training process reward models for LLM test-time scaling without human supervision | |
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| **INDUSTRIAL COLLABORATION** | **ZEISS Group**, Munich, Germany<br>Conducting research on unsupervised adaptation techniques for visual language foundation models on image segmentation; advisor Maria Brbic; external manager Jascha Tempeler | 2024 – 2025 |
| | **Huawei Research**, Moscow, Russia<br>Conducting research on using synthetic data for knowledge distillation under domain gap; advisor: Dmitry Vetrov | 2020 – 2022 |
| | **Sberbank-HSE Laboratory**, Moscow, Russia<br>Conducting research on different text generative modeling tasks.<br>Results were published at ACL 2018. manager: Evgeny Sokolov. | 2017 – 2020 |
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| **TEACHING EXPERIENCE** | Applied Data Analysis at EPFL (largest course on campus!) | Fall 2024 |
| | Calculus II at EPFL | Spring 2024 |
| | Deep Learning in Biomedicine at EPFL | Fall 2023 |
| | Transfer Learning and Meta-Learning at EPFL | Spring 2023 |
| | Continuous Optimization course at HSE and MSU | 2018 – 2022 |
| | Neurobayesian Methods at HSE, MSU and YSDA | 2018 – 2022 |
| | Introduction to Deep Learning at HSE | 2018-2021 |
| | Data Analysis course at HSE | 2018 |
| | DeepBayes Summer School | 2017, 2018, 2019 |
| | Coursera "Bayesian Methods in Machine Learning" course | 2017-2018 |
| | "Bayesian Methods in Machine Learning" course at YSDA and CMC MSU | 2017-2018 |
| | Machine Learning course at CS HSE | Sep 2017 – Jul 2018 |
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| **OTHER EXPERIENCE** | Microsoft Research AI Summer School 2018 | Jul 2018 |
| | Visiting scholar at the University of Sussex, UK<br>Hosted by Novi Quadrianto | Jul 2019 – Aug 2019, Nov 2019 |
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| **SKILLS** | Research, Machine Learning, Deep Learning, Statistics, Algorithms & Data Structures, Python, PyTorch, TensorFlow Basics, C++ Basics | |
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| **RESEARCH INTERESTS** | LLM Agents, Reinforcement Learning, Reasoning, Unsupervised Learning, Representation Learning, Foundation Models, Generative AI, Probabilistic Modeling, Stochastic Gradient Estimation, Structured Discrete Variables, Monte Carlo Methods, Deep Learning, Machine Learning. | |