

Viktor Moskvoretskii

vvmoskvoretskii@gmail.com · [Google Scholar](#) · [Github](#)

AI Researcher with focus on NLP: LLM Trustworthiness, Lexical Semantics and Self-Improvement.

Education

M.S. in Machine Learning – HSE University, Moscow 2023 — 2025

CGPA: 4/4

Thesis: “Self-Improvement for LLM”

Advisors: [Irina Nikishina](#) and [Chris Biemann](#)

Graduate Program in AI and Applied Mathematics (with honors) – MSU, Moscow 2021 — 2023

CGPA: 3.65/4

Final project: “Multi-Class Persuasive Content Identification and Relation Extraction in News Text”

Advisor: [Konstantin Vorontsov](#)

B.S. in Neuroscience (with honors) – HSE University, Moscow 2018 — 2022

CGPA: 3.95/4

Thesis: "[Advanced Emprical Research on Grapheme-Color Synesthesia Induction With V4 tDCS Stimulation](#)"

Advisors: [Oksana Zinchenko](#) and [Alexey Gorin](#)

Link: [Publication](#)

Work Experience

Research Engineer — [Skoltech](#) 07.2023 — Present

- [LLM for Lexical Semantics](#)
- [Machine Translation](#)
- LLM Trustworthiness, Mitigating Hallucinations
- [LLM Efficiency: PEFT and Compression](#)
- [Multivariate Time-Series Unsupervised Learning](#)

Intern Researcher — [Machine Learning and Semantic Analysis Lab](#) 01.2023 — 07.2023

- Multi-Class Persuasive Content Identification and Relation Extraction in News Text

Intern Researcher — [DeepPavlov.ai](#) 08.2022 — 06.2023

- [Image2Text Dialogue System Research](#)

Data Scientist — VTB Housing Ecosystem 07.2020 — 07.2021

- Development of Internal Text Data Analysis Product, Sentiment Analysis

Intern Researcher — [HSE UX Lab](#) 09.2019 — 03.2020

- Data analysis, statistical modeling in Neuroscience

Publications

- [Accepted to [EMNLP 2024](#)]: **Moskvoretskii, Viktor**, et al. "[Low-Resource Machine Translation through the Lens of Personalized Federated Learning](#)." arXiv preprint arXiv:2406.12564 (2024).
- **Viktor Moskvoretskii**, Ekaterina Neminova, Alina Lobanova, Alexander Panchenko, and Irina Nikishina. 2024. [TaxoLLaMA: WordNet-based Model for Solving Multiple Lexical Semantic Tasks](#). In Proceedings of the 62nd Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers), pages 2331–2350, Bangkok, Thailand. [Association for Computational Linguistics](#).
- Andreev, S., **Moskvoretskii, V.**, Gorin, A., & Zinchenko, O. (2024). [Grapheme-color synesthesia induction with V4 transcranial direct current stimulation](#). [Current Psychology](#), 1-6.
- Andreev, S., **Moskvoretskii, V.**, Gorin, A., & Zinchenko, O. (2023). [Induction of grapheme-color synesthesia-like effects in non-synesthetes via offline anodal tDCs over visual cortex in area v4](#). [Brain Stimulation: Basic, Translational, and Clinical Research in Neuromodulation](#), 16(1), 274.

- **Moskvoretskii, V.**, Panchenko, A., & Nikishina, I. (2024, May). [Are Large Language Models Good at Lexical Semantics? A Case of Taxonomy Learning](#). In Proceedings of the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation ([LREC-COLING 2024](#)) (pp. 1498-1510).

- [Submitted to [KDD 2025](#)]: **Moskvoretskii, Viktor**, et al. "[MLEM: Generative and Contrastive Learning as Distinct Modalities for Event Sequences](#)." arXiv preprint arXiv:2401.15935 (2024).
- [Submitted to [ICLR 2025](#)]: Zhelnin, M., **Moskvoretskii, V.**, Shvetsov, E., Venediktov, E., Krylova, M., Zuev, A., & Burnaev, E. (2024). [GIFT-SW: Gaussian noise Injected Fine-Tuning of Salient Weights for LLMs](#). arXiv preprint arXiv:2408.15300.
- [Submitted to [ICLR 2025](#)]: Osin, D., Udovichenko, I., **Moskvoretskii, V.**, Shvetsov, E., & Burnaev, E. (2024). [EBES: Easy Benchmarking for Event Sequences](#). arXiv preprint arXiv:2410.03399.
- **Moskvoretskii, V.**, Frolov, A., & Kuznetsov, D. [IMAD: IMage-Augmented multi-modal dialogue. Investigations on applied mathematics and informatics](#). Part II–1, Zap. Nauchn. Sem. POMI, 529, 102-122.

Awards

Yandex Scholarship 2024 — Awarded for exceptional GPA and significant research contributions in 2024.

HSE Academic Scholarship 2024 — Awarded for outstanding academic performance in 2024.

HSE Best Paper 2023 — HSE 2023 best student paper award

Student Supervision

6. **Ekaterina Neminova** (Sep 2023—now, HSE)

BSc thesis co-supervision with [Irina Nikishina](#): “Investigation of Large Language Models for the Taxonomy-related Tasks”

led to ACL paper: “[TaxoLLaMA: WordNet-based Model for Solving Multiple Lexical Semantic Tasks](#)”

5. **Alina Lobanova** (Sep 2023—now, HSE)

BSc thesis co-supervision with [Irina Nikishina](#): “Multilingual Large Language Models for predicting IS-A relationships”

led to ACL paper: “[TaxoLLaMA: WordNet-based Model for Solving Multiple Lexical Semantic Tasks](#)”

4. **Vladimir Ganzhara** (Sep 2024—now, HSE)

MS project supervision: “Aligning LLM Confidence with Truthfulness with Self-Play”

3. **Gleb Stenin** (Sep 2024—now, HSE)

MS project supervision: “Aligning LLM Confidence with Truthfulness with Self-Play”

2. **Vlad Knyazhevski** (Sep 2024—now, HSE)

MS project supervision: “Aligning LLM Confidence with Truthfulness with Self-Play”

1. **Luiza Nigogosova** (Sep 2024—now, HSE)

MS project supervision: “Aligning LLM Confidence with Truthfulness with Self-Play”

Teaching Experience

2024-2025 **Neural Natural Language Processing (en)** — HSE, Moscow

Role: Lecturer and Seminarian

Duration: Terms 1, 2 and 3

Audience: 4th year BSc students in Fundamental and Applied Linguistics

Links: [Github](#)

2023-2024 **Neural Natural Language Processing (en)** — HSE, Moscow

Role: Lecturer, Seminarian, Preparing Homework

Duration: Terms 1, 2 and 3

Audience: 4th year BSc students in Fundamental and Applied Linguistics

Links: [Github](#)

2024 **Tensor Decomposition for DL (en)** — Skoltech, Moscow

Role: Lecturer, Seminarian, Preparing Homework

Duration: Term 1

Audience: Industrial AI Researchers

Links: [Github](#)

2024 **Tensor Decomposition for DL (en)** — Deep School, Moscow

Role: Lecturer, Seminarian, Preparing Homework

Duration: Term 3

Audience: Industrial AI Researchers

Links: [Github](#)

Reviewing

ICLR 3 papers in 2024 as reviewer

ACL 4 papers in 2024 as sub-reviewer

EMNLP 4 papers in 2024 as sub-reviewer

COLING 3 papers in 2024 as sub-reviewer

AINL 1 paper in 2024 as reviewer

Additional Education

Aug 2023 **AI** Summer School by Skoltech

Jul 2023 **Generative Modeling and RL** Summer School by AIRI

May 2023 **Generative Modeling and AI Theory** Summer School by HSE

Feb 2023 **Applied Informatics and Mathematics** Winter School by HSE

Jul 2022 **NLP and CV** Summer School by AIRI

Aug 2020 **Machine Learning and Applied Mathematics** Summer School by MIPT and IITP RAS