

ALEXANDER PANFILOV

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EDUCATION

IMPRS-IS / ELLIS | PhD MACHINE LEARNING

May 2024 – TBD | Tübingen, Germany

University of Tübingen | MSc MACHINE LEARNING

Oct 2021 – Apr 2024 | Tübingen, Germany

NUST MISiS / MADE Big Data Academy | PGDip DATA SCIENCE

Sep 2019 – Jan 2021 | Moscow, Russia (remote)

ITMO University | BSc SOFTWARE ENGINEERING

Sep 2017 – Jun 2021 | Saint Petersburg, Russia

RESEARCH EXPERIENCE

ELLIS Institute Tübingen / MPI for Intelligent Systems | DOCTORAL STUDENT

May 2024 – TBD | Tübingen, Germany

Jonas Geiping's Group (SEAL), co-supervised by Maksym Andriushchenko

- Explored how growing LLM capabilities affect security of LLM-based systems and future of red-teaming, with results accepted at the **ICML 2025 Workshop** on Reliable and Responsible Foundation Models.
- Contributed to architectural instruction-data separation that mitigates prompt injections, with results accepted at the **ICLR 2025 Workshop (oral)** on Building Trust in Language Models and Applications.
- Successfully adapted discrete optimization jailbreaking attacks to a perplexity constraint, with results accepted at the **NeurIPS 2024 Workshop (oral)** on Red Teaming GenAI and **ICML 2025**.

Alignment Research Engineer Accelerator (ARENA 6.0) | SCHOLAR

Sep 2025 – Oct 2025 | London, United Kingdom

- Nominated as Best Capstone Project for adversarial training of LLMs to evade deception probes.
- Won 3rd place at Apart Research Hackathon with a project identifying a confounder in deception probe evaluation.

University of Tübingen / MPI for Intelligent Systems | RESEARCH ASSISTANT

May 2022 – Apr 2024 | Tübingen, Germany

Wieland Brendel's Group (RobustML)

- Proposed and implemented a novel regularization method enabling combinatorial generalization in object-centric models. Results accepted at **ICLR 2024 (oral)**, ranking in the **top 1.2%** of submitted papers.

ITMO University | RESEARCH ASSISTANT

Nov 2019 – Oct 2021 | Saint Petersburg, Russia

Machine Learning Lab

- Contributed to research on exploiting simplicity bias for adversarial training and domain adaptation via optimal transport, with results published at the **ICML 2022 Workshop** on AdvML Frontiers and **CoLLAs 2023**.

Center for Learning Analytics

- Developed digital student profiles and engineered a machine learning system to predict academic outcomes and potential student expulsions aiding early intervention planning.

Robert Bosch | RESEARCH INTERN

Jun 2020 – Nov 2020 | Saint Petersburg, Russia

- Worked on disentanglement in VAEs for identifying cost-effective yet high-performing motor designs.

SELECTED PUBLICATIONS

- conference paper
Adaptive Attacks on Trusted Monitors Subvert AI Control Protocols
Terekhov, M.*, Panfilov, A.*, Dzenhaliou, D., Gulcehre, C., Andriushchenko, M., Prabhu, A., and Geiping, J.
preprint
- conference paper
Strategic Dishonesty Can Undermine AI Safety Evaluations of Frontier LLMs
Panfilov, A.*, Kortukov, E.*, Nikolić, K., Bethge, M., Lapuschkin, S., Samek, W., Prabhu, A., Andriushchenko, M., and Geiping, J.
preprint
- conference paper
Capability-Based Scaling Laws for LLM Red-Teaming
Panfilov, A., Kassianik, P., Andriushchenko, M., and Geiping, J.
ICML 2025 Workshop on Reliable and Responsible Foundation Models
- conference paper – equal contribution
An Interpretable N-gram Perplexity Threat Model for Large Language Model Jailbreaks
Boreiko, V.*, Panfilov, A.*, Voracek, V., Hein, M., and Geiping, J.
ICML 2025
- workshop paper
ASIDE: Architectural Separation of Instructions and Data in Language Models
Zverev E., Kortukov E., Panfilov, A., Volkova A., Tabesh S., Lapuschkin S., Samek W., and Lampert H Ch.
ICLR 2025 Workshop on Building Trust in Language Models and Applications (Oral)
- conference paper – equal contribution
Provable Compositional Generalization for Object-Centric Learning
Wiedemer, T.*, Brady, J.*, Panfilov, A.*, Juhos, A.*, Bethge, M., and Brendel, W.
ICLR 2024 (Oral)

AWARDS & SCHOLARSHIPS

- **Apart Research ARENA 6.0 Mechanistic Interpretability Hackathon (2025), 3rd place:** Awarded for the project investigating whether white-box deception detectors catch deception or instruction to deceive.
- **ELSA Grant (2025):** Awarded a research travel grant from European Lighthouse on Secure and Safe AI (~3k euro).
- **DAAD Scholarship (2021), Top 3%:** Selected as one of ~30 Russian students from ~1,000 applicants for a two-year DAAD-funded master's program in Germany (~30k euro).
- **"Ya-Professional" Student Olympiad Winner (2021), Top 2%:** Achieved prizewinner status in AI and ML tracks, with only 3,881 out of 177,100 participants (among all tracks) receiving this distinction.

ACADEMIC SERVICE

- **Reviewer:** NeurIPS 2025, ICLR 2025
- Examiner for two MSc theses (ITMO University 2023, HSE St. Petersburg 2023)

INDUSTRY EXPERIENCE

X5 Group | DATA SCIENTIST

Nov 2020 – Oct 2021 | Moscow, Russia (remote)

- Designed and conducted A/B testing experiments to evaluate the efficacy of various business initiatives, performed ad-hoc analytics to support decision-making processes within Russia's largest offline retail chain.
- Mentored three interns, all subsequently securing full-time roles within the company.

Yandex | MACHINE LEARNING ENGINEER INTERN

Feb 2020 – May 2020 | Moscow, Russia

- Optimized the push notification system at Yandex.Zen for personalized timing of notifications.

FULL PUBLICATIONS LIST

- conference paper
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A Realistic Threat Model for Large Language Model Jailbreaks
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NeurIPS 2024 Red Teaming Gen AI Workshop (Oral)
- conference paper – equal contribution
Provable Compositional Generalization for Object-Centric Learning
Wiedemer, T.*, Brady, J.*, Panfilov, A.*, Juhos, A.*, Bethge, M., and Brendel, W.
ICLR 2024 (oral)
- conference paper
A Minimalist Approach for Domain Adaptation with Optimal Transport
Asadulaev, A., Shutov, V., Korotin, A., Panfilov, A., Kontsevaya, V., and Filchenkov, A.
Proceedings of The 2nd Conference on Lifelong Learning Agents, PMLR 232:1009-1024, 2023
- workshop paper
Easy Batch Normalization
Asadulaev, A., Panfilov, A., and Filchenkov, A.
ICML 2022 AdvML Frontiers Workshop, 2022
- workshop paper
Multi-step domain adaptation by adversarial attack to $\mathcal{H}\Delta\mathcal{H}$ -divergence
Asadulaev, A., Panfilov, A., and Filchenkov, A.
ICML 2022 AdvML Frontiers Workshop, 2022
- conference paper
Recommender system for an academic supervisor with a matrix normalization approach
Kazakovtsev, V., Oreshin, S., Serdyukov, A., Krasheninnikov, E., Muravyov, S., Bezzvinnyi, A., Panfilov, A., Glukhov, I., Kaliberda, Y., Masalskiy, D., Podolenchuk, T., and Khlopotov, M.
Proceedings of The 2020 1st International Conference on Control, Robotics and Intelligent System (CCRIS '20)

- conference paper

Implementing a Machine Learning Approach to Predicting Students' Academic Outcomes⁹

Oreshin, S., Filchenkov, A., Petrusha, P., Krasheninnikov, E., Panfilov, A., Glukhov, I., Kaliberda, Y., Masalskiy, D., Serdyukov, A., Kazakovtsev, V., Khlopotov, M., Podolenchuk, T., Smetannikov, I., and Kozlova, D.

Proceedings of The 2020 1st International Conference on Control, Robotics and Intelligent System (CCRIS '20)

- chapter

The Use of Students' Digital Portraits in Creating Smart Higher Education: A Case Study of the AI Benefits in Analyzing Educational and Social Media Data⁹

Oreshin, S., Filchenkov, A., Kozlova, D., Petrusha, P., Lisitsyna, L., Panfilov, A., Glukhov, I., Krasheninnikov, E. and Buraya, I.

In: Uskov, V., Howlett, R., Jain, L. (eds) Smart Education and e-Learning 2020