

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

ITMO University | BSc SOFTWARE ENGINEERING

Sep 2017 – Jun 2021 | Saint Petersburg, Russia

RESEARCH EXPERIENCE

ELLIS Institute Tübingen | DOCTORAL STUDENT

May 2024 – TBD | Tübingen, Germany

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

- 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**.
- 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.

MPI for Intelligent Systems / University of Tübingen | 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.

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.

AWARDS

- **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.
- **"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.

PUBLICATIONS

- 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
- conference 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
A Realistic Threat Model for Large Language Model Jailbreaks
Boreiko, V.*, Panfilov, A.*, Voracek, V., Hein, M., and Geiping, J.
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 Outcomes
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 Data
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