MIKHAIL PAUTOV

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EDUCATION

Ph.D. in Mathematics and Computer Science Skolkovo Institute of Science and Technology	2020 - Present		
M.Sc. in Mathematics and Computer Science ¹ Skolkovo Institute of Science and Technology	2018 - 2020		
M.Sc. in Applied Mathematics and Physics Moscow Institute of Physics and Technology B.Sc. in Applied Mathematics and Physics Moscow Institute of Physics and Technology, Kharkevich Institute for Information Transmission Problems, RAS (base department) EXPERIENCE	2018 - 2020 2014 - 2018		
		Research Engineer — Skolkovo Institute of Science and Technology Computational Intelligence Lab. • Industrial project about certified robustness of neural networks (with Huawei). • Industrial project about trusted AI (ISP RAS).	Nov. 2021 - Present Moscow, Russia
		Research Intern — Skolkovo Institute of Science and Technology Computational Intelligence Lab. • Industrial project about certified robustness of neural networks (with Huawei).	Nov. 2020 - Nov. 2021 Moscow, Russia
Scientific Consultant — Huawei Intelligent Systems Lab. • Research in the field of robustness of neural network based face recognition systems.	Sep. 2019 - Aug. 2020 Moscow, Russia		
 Teaching Assistant — Moscow Institute of Physics and Technology Mathematical Foundations of Management Dept. Teaching assistance in Machine Learning course. Conducting practical classes, examination of students. 	Sep. 2019 - Jun. 2020 Moscow, Russia		
Research Intern — Huawei Intelligent Systems Lab. • Adversarial attacks on neural network based face recognition systems.	Jun. 2019 - Sep. 2019 Moscow, Russia		
Mathematics Teacher — Moscow Institute of Physics and Technology Evening School of Physics and Technology • Unified State Exam / Olympiads preparation of schoolchildren.	Sep. 2017 - May 2018 Moscow, Russia		

PUBLICATIONS

- Pautov, M., Kuznetsova, O., Tursynbek, N., Petiushko, A., & Oseledets, I. (2022). Smoothed Embeddings for Certified Few-Shot Learning. arXiv preprint arXiv:2202.01186.
- Pautov, M., Tursynbek, N., Munkhoeva, M., Muravev, N., Petiushko, A., & Oseledets, I. (2022, June). CC-Cert: A probabilistic approach to certify general robustness of neural networks. In Proceedings of the AAAI Conference on Artificial Intelligence (Vol. 36, No. 7, pp. 7975-7983).
- Pautov, M., Melnikov, G., Kaziakhmedov, E., Kireev, K., & Petiushko, A. (2019, October). On adversarial patches: real-world attack on arcface-100 face recognition system. In 2019 International Multi-Conference on Engineering, Computer and Information Sciences (SIBIRCON) (pp. 0391-0396). IEEE.
- Kaziakhmedov, E., Kireev, K., Melnikov, G., Pautov, M., & Petiushko, A. (2019, October). Real-world attack on MTCNN face detection system. In 2019 International Multi-Conference on Engineering, Computer and Information Sciences (SIBIR-CON) (pp. 0422-0427). IEEE.

¹Joint M.Sc. program of MIPT and Skoltech.

PERSONAL INFORMATION

 \mathbf{DOB} / $\mathbf{POB}:$ December 06, 1996 / Ivanovo, Russia.

Citizenship: Russian.