



Sergey Chervontsev

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 [JanRocketMan](#)

Key Skills

- Programming Languages: **Python** (Pytorch, Tensorflow), **C/C++** (CUDA), R
- Areas of expertise: **Advanced Image Synthesis** (BigGAN, StyleGANs, DDPMs, ScoreSDEs, GLOW, NVAE), **Compressed Sensing** with Generative Models, Signal Processing, Video Restoration with Deep Learning, Uncertainty Estimation
- Broad areas of knowledge: Statistical Learning, **Computer Vision**, Probabilistic Modelling, **Depth Estimation**, **Differential Rendering**, Self-Supervised learning, Natural Language Processing, **3D**
- Other: TOEFL (C1), Algorithms and Data Structures, AWS, Bash, Git, Docker, CI/CD, FFmpeg

Experience

Huawei, Noah's Ark Lab

Research Scientist

Moscow, Russia

June 2021 - Present

- Developed a new state-of-the-art model on the internal dataset for the problem of time-consistent video super-resolution based on the Latent Diffusion Model
- Work in a team of Kaggle Grandmaster Pavel Ostyakov with collaborations in Augmented Perception Group, ETH Zurich. Supported a pipeline to test developed methods in **product-related settings** (Huawei 4K TVs)

Yandex Research

Research Assistant

Moscow, Russia

December 2018 - June 2021

- Improved the performance of unconditional BigGAN model on ImageNet using the concept of Mean Teacher
- Studied **GANs as priors** for unsupervised or weakly-supervised learning problems, including saliency segmentation and **3D problems like** novel view synthesis and geometric matching
- Introduced a method for effective joint modelling of aleatoric/epistemic uncertainties in deep regression models with applications in Depth Estimation

Higher School of Economics & London School of Economics, ICEF programme

Teaching Assistant

Moscow

Sept. 2020 - Present

- Conduct seminars on Statistical Learning in English in the team of UC Berkeley lecturer Oleg Melnikov

ScienceMap

Machine Learning Engineer

Stuttgart, Germany

May 2018 - February 2019

Education

Higher School of Economics

Master of Applied Mathematics and Informatics

Moscow, Russia

2019 - 2021

Moscow Institute of Physics and Technology

Bachelor of Applied Mathematics and Physics

Moscow, Russia

2015 - 2019

Publications

Sergey Chervontsev, Andrey Voynov, and Artem Babenko. Mean teachers can train superior gans. *Under publication*, https://janrocketman.github.io/assets/LeakyEMA_Paper.pdf, 2021.

Andrey Malinin, Sergey Chervontsev, Ivan Provilkov, and Mark Gales. Regression prior networks. *2020 Conference on Neural Information Processing Systems, Workshop on Bayesian Deep Learning*, <https://arxiv.org/abs/2006.11590>, 2021.