

# Ivan Skorokhodov

## Work experience

- April 2026–  
now **Principal MTS**, *Rhoda AI*, Palo Alto, CA, USA.  
○ Video/world models for general robotics.
- Jun 2023–  
now **Senior Research Scientist**, *Snap Research*, Santa Monica, CA, USA.  
○ SnapVideo family of models + research on image/video/3D models.
- Mar 2020–  
Mar 2023 **CS PhD student**, *King Abdullah University of Science and Technology*, Thuwal, Saudi Arabia.  
○ Built several GAN-based models for image/video/3D generation.  
○ Took courses on computer graphics, GPU programming, and machine learning.  
○ Served as a teaching assistant on 3 deep learning courses.  
○ Supervised by [prof. Peter Wonka](#) and [prof. Mohamed Elhoseiny](#).
- Jun 2022–  
Oct 2022 **Research Intern**, *Snap Inc.*, Los Angeles, United States.  
○ Built a [3D-aware image generator](#) for in-the-wild data.  
○ Supervised by [Sergey Tulyakov](#) and [Aliaksandr Siarohin](#).
- Feb 2018–  
Mar 2020 **Deep Learning Researcher**, *Moscow Institute of Physics and Technology*, Moscow, Russia.  
○ Developed multi-point optimization strategy to explore loss surfaces of neural networks. It resulted in a [NeurIPS 2019 optimization workshop paper](#).  
○ Built a text style transfer model by combining CycleGAN with Transformers. It was presented at art exhibitions in Moscow and Rio de Janeiro.  
○ Served as a teaching assistant (+ gave 2 lectures) on the “Theoretical Deep Learning” course.
- Sep 2019–  
Dec 2019 **Visiting Student**, *King Abdullah University of Science and Technology*, Thuwal, Saudi Arabia.  
○ Explored initialization/normalization techniques in the context of zero-shot learning and continual learning (supervised by [prof. Mohamed Elhoseiny](#)). It resulted into an [ICLR 2021 paper](#).
- Mar 2015–  
Oct 2016 **Software Engineer**, *Yandex*, Moscow, Russia.  
○ Developed the client side of the offer card for <https://market.yandex.ru>, which had >1M daily users.  
○ Performed different infrastructure/devops tasks (deployment, unit/integration/stress tests, etc).  
○ Implemented many product/infrastructure features for <https://market.yandex.ru> in js/node.js/css/xslt.
- Sep 2014–  
Mar 2015 **Senior Software Engineer**, *Federal State Statistics Service*, Moscow, Russia.  
○ Built a web crawler for automatic dictionary generation: it parsed web pages on a specified topic, detected terms and definitions, categorized them, processed, and saved into the database.
- Jan 2014–  
Sep 2014 **Full-Stack Software Engineer**, *Brainarium*, Moscow, Russia.  
○ Built a kaggle-like platform with node.js + marionette.js stack and all the required infrastructure.

## Education

- Mar 2020–  
Mar 2023 **King Abdullah University of Science and Technology**, *Thuwal, Saudi Arabia*.  
Visual Computing Center, Ph.D. student, Computer Science. GPA: 3.92/4.  
Supervisors: [prof. Peter Wonka](#) and [prof. Mohamed Elhoseiny](#).
- Sep 2018–  
Jun 2021 **Yandex School of Data Analysis**, *Moscow, Russia*.  
M.S. equivalent, Data Analysis in Applied Sciences. GPA: 4.77/5.  
Thesis: Normalization Matters in Zero-Shot Learning.  
Supervisor: [prof. Ilya Muchnik](#)
- Sep 2014–  
Jul 2016 **Moscow Engineering Physics Institute (MEPhI)**, *Moscow, Russia*.  
M.S., Applied Informatics. GPA: 4.78/5.  
Thesis: Product Search Ranking with Neural Networks.  
Supervisor: [prof. Anna Tikhomirova](#).

Sep 2010– [Moscow Engineering Physics Institute \(MEPhI\)](#), *Moscow, Russia*.

Jul 2014 B.S. (with honors), Innovative Management. GPA: 4.88/5  
Thesis: Software Development Management Systems.  
Supervisor: prof. Igor Prokhorov

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## Selected publications

- Oct 2025 **AlphaFlow: Understanding and Improving MeanFlow Models**, *ICML 2025*.  
Huijie Zhang, Aliaksandr Siarohin, Willi Menapace, Michael Vasilkovsky, Sergey Tulyakov, Qing Qu, **Ivan Skorokhodov**  
[\[paper\]](#) [\[code\]](#)
- Feb 2025 **Improving the Diffusability of Autoencoders**, *ICML 2025*.  
**Ivan Skorokhodov**, Sharath Girish, Benran Hu, Willi Menapace, Yanyu Li, Rameen Abdal, Sergey Tulyakov, Aliaksandr Siarohin  
[\[paper\]](#) [\[code\]](#)
- Dec 2024 **AC3D: Analyzing and Improving 3D Camera Control in Video Diffusion Transformers**, *CVPR 2025*.  
Sherwin Bahmani, **Ivan Skorokhodov**, Guocheng Qian, Aliaksandr Siarohin, Willi Menapace, Andrea Tagliasacchi, David B. Lindell, Sergey Tulyakov  
[\[paper\]](#) [\[website\]](#) [\[code\]](#)
- June 2024 **Hierarchical Patch Diffusion Models for High-Resolution Video Synthesis**, *CVPR 2024*.  
**Ivan Skorokhodov**, Aliaksandr Siarohin, Willi Menapace, Sergey Tulyakov  
[\[paper\]](#) [\[website\]](#)
- June 2024 **SnapVideo: Scaled Spatiotemporal Transformers for Text-to-Video Synthesis**, *CVPR 2024*.  
Willi Menapace, Aliaksandr Siarohin, **Ivan Skorokhodov**, Ekaterina Deyneka, Tsai-Shien Chen, Anil Kag, Yuwei Fang, Aleksei Stoliar, Elisa Ricci, Jian Ren, Sergey Tulyakov  
[\[paper\]](#) [\[website\]](#)
- Apr 2023 **3D generation on ImageNet**, *ICLR 2023 (Oral)*.  
**Ivan Skorokhodov**, Aliaksandr Siarohin, Yinghao Xu, Jian Ren, Hsin-Ying Lee, Peter Wonka, Sergey Tulyakov  
[\[paper\]](#) [\[website\]](#) [\[code\]](#)
- Jun 2022 **EpiGRAF: Rethinking training of 3D GANs**, *NeurIPS 2022*.  
**Ivan Skorokhodov**, Sergey Tulyakov, Yiqun Wang, Peter Wonka  
[\[paper\]](#) [\[website\]](#) [\[code\]](#)
- Nov 2021 **StyleGAN-V: A Continuous Video Generator with the Price, Image Quality and Perks of StyleGAN2**, *CVPR 2022*.  
**Ivan Skorokhodov**, Sergey Tulyakov, Mohamed Elhoseiny  
[\[paper\]](#) [\[website\]](#) [\[code\]](#)
- Jun 2021 **Adversarial Generation of Continuous Images**, *CVPR 2021*.  
**Ivan Skorokhodov**, Savva Ignatyev, Mohamed Elhoseiny  
[\[paper\]](#) [\[website\]](#) [\[code\]](#)
- Dec 2019 **Loss Surface Sightseeing by Multi-Point Optimization**, “Beyond First Order Methods in ML” workshop, *NeurIPS 2019*.  
**Ivan Skorokhodov**, Mikhail Burtsev  
[\[paper\]](#) [\[website\]](#) [\[code\]](#)

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## Awards & Recognition

- June 2026 **Outstanding Area Chair**, *CVPR 2026*, Denver, CO, United States.  
I was [recognized](#) as an Outstanding Area Chair by the CVPR 2026 PCs.
- June 2022 **Dean's List Award**, *KAUST CEMSE department*, Thuwal, Saudi Arabia.  
A \$2,500 award given to top students by [CEMSE division](#) for their academic achievements.

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## Talks

- May 2023 **3D generation on ImageNet, Kigali, Rwanda.**  
“Generative Models” session, [ICLR 2023](#)
- April 2023 **Generative Models for Neural Fields, online (recording).**  
[Toronto AI in Robotics Seminar, University of Toronto](#)
- June 2022 **Deep Generative Models over Continuous Data, online.**  
[Vision and AI seminar, Weizmann Institute of Science](#)

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## Teaching experience

- Fall 2021 **Teaching assistant, *King Abdullah University of Science and Technology*, Thuwal, Saudi Arabia.**  
“Data-Efficient Deep Learning” course, taught by [prof. Mohamed Elhoseiny](#).
- Spring 2021 **Teaching assistant, *King Abdullah University of Science and Technology*, Thuwal, Saudi Arabia.**  
“Deep Generative Models” course, taught by [prof. Mohamed Elhoseiny](#).
- Fall 2020 **Teaching assistant, *King Abdullah University of Science and Technology*, Thuwal, Saudi Arabia.**  
“Data-Efficient Deep Learning” course, taught by [prof. Mohamed Elhoseiny](#).
- Fall 2019 **Teaching assistant, *Moscow Institute of Physics and Technology*, Moscow, Russia.**  
“Theoretical Deep Learning” course (part II), taught by [Evgeniy Golikov](#).
- Spring 2019 **Lecturer/Teaching assistant, *Moscow Institute of Physics and Technology*, Moscow, Russia.**  
“Theoretical Deep Learning” course (part I), taught by [Evgeniy Golikov](#).  
My lecture notes on Information Bottleneck can be viewed [\[here\]](#).

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## Reviewing

- Conferences CVPR 2022, ECCV 2022, SIGGRAPH Asia 2022, ICLR 2023, CVPR 2023 (outstanding reviewer), ICCV 2023, NeurIPS 2023, ICLR 2024, CVPR 2024, SIGGRAPH 2024, ICML 2024, etc.
- Journals IJCV

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## Selected side projects

- Sep 2020– **RtRs** [\[github\]](#).
- Dec 2020 Simple ray tracing and rasterization engine written in [rust](#). There are various features implemented: quadrics/mesh rendering, distributed ray tracing, camera movement, arcball controls, etc.
- Dec 2020 **Gaussian Non-Uniform Interpolation** [\[github\]](#) [\[paper\]](#).  
A CUDA kernel that is able to interpolate points on a non-uniform grid. This is done by representing each point as a 2D gaussian distribution.
- Nov 2018– **Firelab** [\[github\]](#).
- Aug 2020 Python framework for running pytorch experiments. Supports multi-gpu hyperparameters optimization, training class boilerplate, tensorboard logging, etc.
- Oct 2016– **Aladdin** [\[github\]](#).
- Mar 2017 A betting arbitrage bot written in [rust](#).
- May 2016 - **Omniplan Web** [\[github\]](#).
- Aug 2016 A web interface for [omniplan](#) platform written with [react.js](#).

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## Skills

- Coding [python](#), [rust](#), [javascript](#), (a bit of) [C++](#), (a bit of) [CUDA](#) [Claude Code](#)
- ML/DL libs [torch](#), [torchvision](#), [tensorflow](#), [sklearn](#), [pandas](#), [numpy](#) [Claude Code](#)
- Miscellaneous [docker](#), [git](#), [bash](#), [L<sup>A</sup>T<sub>E</sub>X](#), [kubernetes](#) [Claude Code](#)

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## Hackathon awards

- Nov 2018 **Junction**, *SAP incentive award*, [Junction Team](#), Espoo, Finland.
- Jun 2018 **BlockchainHack**, *1st place*, Blockchain Institute, Moscow, Russia.
- Feb 2018 **Unsupervised Machine Translation**, *2nd place*, [MIPT](#), Dolgoprudny, Russia.
- Aug 2017 **FunHack**, *some minor prize*, Science Guide, Moscow, Russia.
- Nov 2016 **VK hackathon**, *1st place + people's choice award*, [VK](#), Saint-Petersburg, Russia.
- Nov 2016 **BEM hackathon**, *1st place*, [Yandex](#), Moscow, Russia.