

Aliaksandr Siarohin

EDUCATION

University of Trento, Italy — Ph.D (honours degree)

November 2017 – June 2021

Phd in Computer Vision group.

University of Trento, Italy — Master (honours degree)

September 2015 – July 2017

Master in computer science.

Yandex school of data analysis, Minsk

September 2013 – June 2015

Master's-level program in Computer Science and Data Analysis.

Belarusian State University, Minsk — Bachelor (honours degree)

September 2010 – June 2015

Bachelor in applied mathematics and informatics.

EXPERIENCE

Snap Inc., Los Angeles— Staff Research Scientist

February 2022 – Present

Google, Moscow — Research Intern

December 2020 – April 2021

Snap Inc., Los Angeles— Research Intern

February 2020 – June 2020

Yandex, Moscow — Software Engineer

July 2014 – January 2015

IBA, Minsk — Software Engineer

February 2013 – January 2014

VOLUNTEERING

CVPR, ECCV, ICCV, NeurIPS, ICLR, ICML - Reviewer

ECCV - Area Chair

LINKS

Google Scholar:

<https://scholar.google.it/citations?user=uMl5-k4AAAAJ&hl=en>

GitHub:

<https://github.com/AliaksandrSiarohin>

SKILLS

Deep theoretical knowledge of computer science.

Programming Languages (C++, C#, Java, Python)

Excellent knowledge of machine learning algorithms as well as deep learning

Extensive knowledge of python libraries for data analysis and computer vision

Knowledge of Ubuntu, and Unix command line

AWARDS

November 2020 – ACM-TOMM (Nicolas D. Georganas) Best Paper Award

December 2020 – Snap Inc. Research Fellowship

November 2016 – bronze medal in SWERC ACM ICPC

April 2010 – 2d place on the Republican School Competition on mathematics

April 2009 – 3d place on the Republican School Competition on mathematics

April 2008 – 3d place on the Republican School Competition on mathematics

LANGUAGES

Russian, English

List of publications

1. Tsai-Shien Chen, Aliaksandr Siarohin, Willi Menapace, Yuwei Fang, Kwot Sin Lee, Ivan Skorokhodov, Kfir Aberman, Jun-Yan Zhu, Ming-Hsuan Yang, Sergey Tulyakov. **Multi-subject Open-set Personalization in Video Generation.** In CVPR, 2025.
2. Heng Yu, Chaoyang Wang, Peiye Zhuang, Willi Menapace, Aliaksandr Siarohin, Junli Cao, László Jeni, Sergey Tulyakov, Hsin-Ying Lee. **4real: Towards photorealistic 4d scene generation via video diffusion models.** In NeurIPS, 2024.
3. Zhixing Zhang, Yanyu Li, Yushu Wu, Anil Kag, Ivan Skorokhodov, Willi Menapace, Aliaksandr Siarohin, Junli Cao, Dimitris Metaxas, Sergey Tulyakov, Jian Ren. **Sf-v: Single forward video generation model.** In NeurIPS, 2024.
4. Alexander Pondaven, Aliaksandr Siarohin, Sergey Tulyakov, Philip Torr, Fabio Pizzati. **Video Motion Transfer with Diffusion Transformers.** In CVPR, 2025.
5. Ziyi Wu, Aliaksandr Siarohin, Willi Menapace, Ivan Skorokhodov, Yuwei Fang, Varnith Chordia, Igor Gilitschenski, Sergey Tulyakov. **Mind the Time: Temporally-Controlled Multi-Event Video Generation.** In CVPR, 2025.
6. Chaoyang Wang, Peiye Zhuang, Tuan Duc Ngo, Willi Menapace, Aliaksandr Siarohin, Michael Vasilkovsky, Ivan Skorokhodov, Sergey Tulyakov, Peter Wonka, Hsin-Ying Lee. **4Real-Video: Learning Generalizable Photo-Realistic 4D Video Diffusion.** In CVPR, 2025.
7. Sherwin Bahmani, Ivan Skorokhodov, Guocheng Qian, Aliaksandr Siarohin, Willi Menapace, Andrea Tagliasacchi, David B Lindell, Sergey Tulyakov. **AC3D: Analyzing and Improving 3D Camera Control in Video Diffusion Transformers.** In CVPR, 2025.
8. Anil Kag, Huseyin Coskun, Jierun Chen, Junli Cao, Willi Menapace, Aliaksandr Siarohin, Sergey Tulyakov, Jian Ren. **Ascan: Asymmetric convolution-attention networks for efficient recognition and generation.** In NeurIPS, 2024.
9. Sherwin Bahmani, Ivan Skorokhodov, Aliaksandr Siarohin, Willi Menapace, Guocheng Qian, Michael Vasilkovsky, Hsin-Ying Lee, Chaoyang Wang, Jiaxu Zou, Andrea Tagliasacchi, David B Lindell, Sergey Tulyakov. **Vd3d: Taming large video diffusion transformers for 3d camera control.** In ICLR, 2025.
10. Sherwin Bahmani, Ivan Skorokhodov, Aliaksandr Siarohin, Willi Menapace, Guocheng Qian, Michael Vasilkovsky, Hsin-Ying Lee, Chaoyang Wang, Jiaxu Zou, Andrea Tagliasacchi, David B Lindell, Sergey Tulyakov. **Vimi: Grounding video generation through multi-modal instruction.** In EMNLP, 2024.
11. Ivan Skorokhodov, Willi Menapace, Aliaksandr Siarohin, Sergey Tulyakov. **Hierarchical patch diffusion models for high-resolution video generation.** In CVPR, 2024.
12. Tsai-Shien Chen, Aliaksandr Siarohin, Willi Menapace, Ekaterina Deyneka, Hsiang-wei Chao, Byung Eun Jeon, Yuwei Fang, Hsin-Ying Lee, Jian Ren, Ming-Hsuan Yang, Sergey Tulyakov. **Panda-70M: Captioning 70M Videos with Multiple Cross-Modality Teachers.** In CVPR, 2024.
13. Willi Menapace, Aliaksandr Siarohin, Ivan Skorokhodov, Ekaterina Deyneka, Tsai-Shien Chen, Anil Kag, Yuwei Fang, Aleksei Stolar, Elisa Ricci, Jian Ren, Sergey Tulyakov. **Snap Video: Scaled Spatiotemporal Transformers for Text-to-Video Synthesis.** In CVPR, 2024.
14. Yash Kant, Ziyi Wu, Michael Vasilkovsky, Guocheng Qian, Jian Ren, Riza Alp Guler, Bernard Ghanem, Sergey Tulyakov, Igor Gilitschenski, Aliaksandr Siarohin. **SPAD: Spatially Aware Multiview Diffusers.** In CVPR, 2024.
15. Willi Menapace, Aliaksandr Siarohin, Stéphane Lathuilière, Panos Achlioptas, Vladislav Golyanik,

- Sergey Tulyakov, Elisa Ricci. Promptable Game Models: Text-guided Game Simulation via Masked Diffusion Models.* In TOG, 2024.
- 16. Evangelos Ntavelis, Aliaksandr Siarohin, Kyle Olszewski, Chaoyang Wang, Luc V Gool, Sergey Tulyakov. **Autodecoding latent 3d diffusion models.** In NeurIPS, 2023.
 - 17. Qihang Zhang, Chaoyang Wang, Aliaksandr Siarohin, Peiye Zhuang, Yinghao Xu, Ceyuan Yang, Dahua Lin, Bolei Zhou, Sergey Tulyakov, Hsin-Ying Lee. **Scenewiz3d: Towards text-guided 3d scene composition.** In CVPR, 2024.
 - 18. Yash Kant, Aliaksandr Siarohin, Michael Vasilkovsky, Riza Alp Guler, Jian Ren, Sergey Tulyakov, Igor Gilitschenski. **invs: Repurposing diffusion inpainters for novel view synthesis.** In SIGGRAPH ASIA, 2023.
 - 19. Aniruddha Mahapatra, Aliaksandr Siarohin, Hsin-Ying Lee, Sergey Tulyakov, Jun-Yan Zhu. **Text-guided synthesis of eulerian cinemagraphs.** In SIGGRAPH ASIA, 2023.
 - 20. Xian Liu, Jian Ren, Aliaksandr Siarohin, Ivan Skorokhodov, Yanyu Li, Dahua Lin, Xihui Liu, Ziwei Liu, Sergey Tulyakov. **Hyperhuman: Hyper-realistic human generation with latent structural diffusion.** In ICLR, 2024.
 - 21. Guocheng Qian, Jinjie Mai, Abdullah Hamdi, Jian Ren, Aliaksandr Siarohin, Bing Li, Hsin-Ying Lee, Ivan Skorokhodov, Peter Wonka, Sergey Tulyakov, Bernard Ghanem. **Magic123: One image to high-quality 3d object generation using both 2d and 3d diffusion priors.** In ICLR, 2024.
 - 22. Yash Kant, Aliaksandr Siarohin, Riza Alp Guler, Menglei Chai, Jian Ren, Sergey Tulyakov, Igor Gilitschenski. **Invertible Neural Skinning.** In CVPR, 2023.
 - 23. Ivan Skorokhodov, Aliaksandr Siarohin, Yinghao Xu, Jian Ren, Hsin-Ying Lee, Peter Wonka, Sergey Tulyakov. **3d generation on imagenet.** In ICLR, 2023.
 - 24. Chieh Hubert Lin, Hsin-Ying Lee, Willi Menapace, Menglei Chai, Aliaksandr Siarohin, Ming-Hsuan Yang, Sergey Tulyakov. **Infinicity: Infinite-scale city synthesis.** In ICCV, 2023.
 - 25. Aliaksandr Siarohin, Willi Menapace, Ivan Skorokhodov, Kyle Olszewski, Jian Ren, Hsin-Ying Lee, Menglei Chai, Sergey Tulyakov. **Unsupervised volumetric animation.** In CVPR, 2023.
 - 26. Rameen Abdal, Hsin-Ying Lee, Peihao Zhu, Menglei Chai, Aliaksandr Siarohin, Peter Wonka, Sergey Tulyakov. **3davatargan: Bridging domains for personalized editable avatars.** In CVPR, 2023.
 - 27. Yinghao Xu, Menglei Chai, Zifan Shi, Sida Peng, Ivan Skorokhodov, Aliaksandr Siarohin, Ceyuan Yang, Yujun Shen, Hsin-Ying Lee, Bolei Zhou, Sergey Tulyakov. **DisCoScene: Spatially Disentangled Generative Radiance Fields for Controllable 3D-aware Scene Synthesis.** In CVPR, 2023.
 - 28. Jichao Zhang, Enver Sangineto, Hao Tang, Aliaksandr Siarohin, Zhun Zhong, Nicu Sebe, Wei Wang. **3D-aware semantic-guided generative model for human synthesis.** In ECCV, 2022.
 - 29. Willi Menapace, Stéphane Lathuilière, Aliaksandr Siarohin, Christian Theobalt, Sergey Tulyakov, Vladislav Golyanik, Elisa Ricci. **Playable environments: Video manipulation in space and time.** In CVPR, 2022.
 - 30. Jichao Zhang, Aliaksandr Siarohin, Hao Tang, Jingjing Chen, Enver Sangineto, Wei Wang, Nicu Sebe. **Controllable person image synthesis with spatially-adaptive warped normalization.** In ECCV, 2022.
 - 31. Aliaksandr Siarohin, Oliver J Woodford, Jian Ren, Menglei Chai, Sergey Tulyakov. **Motion Representations for Articulated Animation.** In CVPR, 2021.
 - 32. Willi Menapace, Stéphane Lathuilière, Sergey Tulyakov, Aliaksandr Siarohin, Elisa Ricci. **Playable video generation.** In CVPR, 2021.
 - 33. Aleksandr Ermolov, Aliaksandr Siarohin, Enver Sangineto, Nicu Sebe. **Whitening for self-supervised representation learning.** In ICML, 2022.
 - 34. Subhankar Roy, Aliaksandr Siarohin, Enver Sangineto, Samuel Rota Bulo, Nicu Sebe, Elisa Ricci. **TriGAN: Image-to-Image Translation for Multi-Source Domain Adaptation.** In MVAP, 2021.
 - 35. Aliaksandr Siarohin, Subhankar Roy, Stéphane Lathuilière, Sergey Tulyakov, Elisa Ricci, Nicu Sebe.

- Motion-supervised Co-Part Segmentation.** In ICPR, 2021.
36. *Stéphane Lathuilière, Enver Sangineto, Aliaksandr Siarohin, Nicu Sebe. Attention-based Fusion for Multi-source Human Image Generation.* In WACV, 2020.
37. *Aliaksandr Siarohin, Stéphane Lathuilière, Sergey Tulyakov, Elisa Ricci, Nicu Sebe. First Order Motion Model for Image Animation.* In NeurIPS, 2019.
38. *Subhankar Roy, Aliaksandr Siarohin, Nicu Sebe. Unsupervised Domain Adaptation Using Full-Feature Whitening and Colouring.* In ICIAP, 2019.
39. *Polina Zablotskaia, Aliaksandr Siarohin, Bo Zhao, Leonid Sigal. DwNet: Dense warp-based network for pose-guided human video generation.* In BMVC, 2019.
40. *Aliaksandr Siarohin, Stéphane Lathuilière, Enver Sangineto, Nicu Sebe. Appearance and Pose-Conditioned Human Image Generation using Deformable GANs.* In PAMI, 2019.
41. *Subhankar Roy, Aliaksandr Siarohin, Enver Sangineto, Samuel Rota Bulo, Nicu Sebe, Elisa Ricci. Unsupervised Domain Adaptation using Feature-Whitening and Consensus Loss.* In CVPR, 2019.
42. *Aliaksandr Siarohin, Stéphane Lathuilière, Sergey Tulyakov, Elisa Ricci, Nicu Sebe. Animating arbitrary objects via deep motion transfer.* In CVPR, 2019.
43. *Aliaksandr Siarohin, Enver Sangineto, Nicu Sebe. Whitening and Coloring Batch Transform for GANs.* In ICLR, 2019.
44. *Aliaksandr Siarohin, Gloria Zen, Cveta Majtanovic, Xavier Alameda-Pineda, Elisa Ricci, Nicu Sebe. Increasing Image Memorability with Neural Style Transfer.* In ACM TOMM, 2018. NICHOLAS GEORGANAS ACM TOMM BEST PAPER AWARD
45. *Aliaksandr Siarohin, Gloria Zen, Nicu Sebe, Elisa Ricci. Enhancing Perceptual Attributes with Bayesian Style Generation.* In ACCV, 2018.
46. *Aliaksandr Siarohin, Enver Sangineto, Stéphane Lathuilière, Nicu Sebe. Deformable gans for pose-based human image generation.* In CVPR, 2018.
47. *Aliaksandr Siarohin, Gloria Zen, Cveta Majtanovic, Xavier Alameda-Pineda, Elisa Ricci, Nicu Sebe. How to make an image more memorable? A deep style transfer approach.* In ICMR, 2017.