

# Artem Sevastopolsky

Moscow, Russia

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## Education

2019–Present **Ph.D. in Computer Science (pursuing degree),**



*Skolkovo Institute of Science and Technology,  
Faculty of Data Science,  
Computer Vision Group,  
Research topic: Neural 3D Representations  
Advisor: Victor Lempitsky ([personal page](#)).*

2017–2019 **Master of Computer Science (with highest honors),**



*Skolkovo Institute of Science and Technology,  
Faculty of Data Science,  
Computer Vision Group,*

GPA – 5.00 / 5.00,

Thesis: *Learning image deformations via deep learning*

Advisor: Victor Lempitsky ([personal page](#)).

2013–2017 **Bachelor of Computer Science (with highest honors),**



*Lomonosov Moscow State University,  
Faculty of Computational Mathematics and Cybernetics,  
Mathematical methods of forecasting,*

GPA – 4.87 / 5.00.

Thesis: *Glaucoma detection methods based on deep neural networks*

Advisor: Alexander D'yakonov ([personal page](#))

## Relevant Work Experience

01/19 — **Engineer, [SAMSUNG AI CENTER MOSCOW](#), Moscow, Russia.**

Present



- Currently involved in a neural avatar relighting project.
- Worked on three neural point-based rendering algorithms (accepted to ECCV'20 and 3DV'20). Captured a specific dataset of fixed-pose people required for this work.
- Worked on human body image resynthesis from unseen camera positions.
- Was investigating an unusual approach to image inpainting based on image deformations.

06/18 — **Assistant Engineer, [SAMSUNG AI CENTER MOSCOW](#), Moscow, Russia.**

01/19



- Developed a technique for learning of image warpings for face/body rotation.
- Co-authored a paper on body resynthesis in new poses (accepted to CVPR'19).

01/2017 — **Deep Learning Engineer, [YOUTH LABORATORIES](#), Moscow, Russia.**

— 05/2018



Worked as an R&D engineer on several medical imaging projects.

- Main researcher and developer of wrinkles analysis project.
  - Researcher and developer of the recommendational system for skin aging.
  - Co-organized the [Skinhack 2.0](#) hackathon (Nov 2017).
- Research was funded and supervised by Nivea (Beiersdorf AG), Hamburg, Germany.

07/2016 — **Deep Learning Intern**, [ARTEC 3D](#), Moscow, Russia.

— 09/2016 Performed facial recognition on RGBD data from Artec 3D scanners. Developed algorithms for facial landmark detection on RGBD data intended for better handling of occluded and rotated faces.



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## Publications

- 2020 **TRANSPR: Transparency Ray-Accumulating Neural 3D Scene Point Renderer.**  
Kolos M.\*, Sevastopolsky A.\*, Lempitsky V.  
*Proceedings of the International Conference on 3D Vision (3DV)*. 2020.  
([pdf](#)) ([project page](#)) ([YouTube](#))
- 2020 **Neural Point-Based Graphics.**  
Aliiev K.-A., Sevastopolsky A., Kolos M., Ulyanov D., Lempitsky V.  
*Proceedings of the IEEE European Conference on Computer Vision (ECCV)*. 2020.  
([pdf](#)) ([project page](#)) ([GitHub](#)) ([YouTube](#))
- 2019 **Coordinate-based Texture Inpainting for Pose-Guided Human Image Generation.**  
Grigorev A., Sevastopolsky A., Vakhitov A., Lempitsky V.  
*Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*. 2019.  
([pdf](#)) ([project page](#))
- 2019 **Accuracy of computer-assisted vertical cup-to-disk ratio grading for glaucoma screening.**  
Blake M Snyder, Sang Min Nam, Preeyanuch Khunsongkiet, Sakarin Ausayakhun, Thidarat Leeungurasatien, Maxwell R Leiter, Artem Sevastopolsky, Ashlin S Joye, Elyse J Berlinberg, Yingna Liu, David A Ramirez, Caitlin A Moe, Somsanguan Ausayakhun, Robert L Stamper, Jeremy D Keenan  
*PloS one* 14.8 (2019): e0220362.  
([html](#))
- 2018 **Stack-U-Net: Refinement Network for Image Segmentation on the Example of Optic Disc and Cup.**  
Sevastopolsky A., Drapak S., Kiselev K., Snyder B., Keenan J., Georgievskaya A.  
*Proceedings of Medical Imaging 2019. International Society for Optics and Photonics*, 2019.  
([pdf](#))
- 2018 **PhotoAgeClock: deep learning algorithms for development of non-invasive visual biomarkers of aging.**  
Bobrov E., Georgievskaya A., Kiselev K., Sevastopolsky A., Zhavoronkov A., Gurov S., Rudakov K., Del Pilar Bonilla Tobar M., Jaspers S., Clemann S.  
*Aging (Albany NY)* 10.11 (2018): 3249.  
([pdf](#))
- 2017 **Optic disc and cup segmentation methods for glaucoma detection with modification of U-Net convolutional neural network**  
Sevastopolsky A.  
*Pattern Recognition and Image Analysis* 27 (2017), no. 3, 618–624.  
([arXiv](#)) ([GitHub](#))

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## Public Talks

- 2020 Talk "Neural Rendering of Point Clouds: View Resynthesis, Transparency, and Relighting" at the 6<sup>th</sup> Skoltech Christmas Colloquium on Computer Vision ([talk video](#))
- 2020 TA at [Deep Learning course at Skoltech](#). Gave 3 seminars, delivered a problem set, mentored 5 capstone projects, participated in the course organization.
- 2019 Talk "Coordinate-based Texture Inpainting for Pose-Guided Human Image Generation" at Samsung Best Paper Award 2019 internal event, Seoul, South Korea
- 2019 Talk "Coordinate Texture: Redressing and Pose Change for Human Images" at [DataFest Meetup](#), Moscow, Russia (in Russian) ([youtube](#)) ([presentation](#))
- 2019 Poster "Coordinate-based Texture Inpainting for Pose-Guided Human Image Generation" at [CVPR 2019](#), Long Beach, CA, US ([pdf](#))

- 2017 Poster "Glaucoma Detection with W-Net Neural Network" at [NVIDIA GPU Technology Conference Europe 2017](#), Munich, Germany ([pdf](#))
- 2017 Poster "Glaucoma Detection with Deep Neural Networks" at [MACHINES CAN SEE](#) summit, Moscow, Russia ([pdf](#))

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## Languages

English Fluent  
Russian Native

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## Links to social profiles

Personal website <https://seva100.github.io>

Google Scholar <https://scholar.google.com/citations?hl=en&user=fTSCTYQAAAAJ>

GitHub <https://github.com/seva100>

Facebook <https://www.facebook.com/profile.php?id=100006505606156>