

Kirill Gavrilyuk

Curriculum Vitae

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Born in 1991, 2 March

Education

- 2015 – 2020 Ph.D. student
(current) **QUVA Lab, University of Amsterdam**, Amsterdam, The Netherlands
- 2008 – 2013 Specialist degree in APPLIED MATHEMATICS AND INFORMATICS
Faculty of Computational Mathematics and Cybernetics, GPA is 4.9 out of 5.0,
graduation with honors
Lomonosov Moscow State University, Moscow, Russia
- 2011 – 2013 Student in COMPUTER SCIENCE
Yandex School of Data Analysis, Moscow, Russia
- 2001 – 2008 Mathematics high-school class, graduation with honors
Gymnasium 1514, Moscow, Russia

Experience

- June. 2019 - **Computer Vision Researcher, Intern**, *Sportlogiq*, Montreal, Canada.
Nov. 2019
- Aug. 2015 - **Computer Vision Researcher**, *VisionLabs*, Moscow, Russia.
Nov. 2015
- Jan. 2013 - **Machine Learning Engineer**, *Samsung Research and Development Institute*,
Aug. 2015 Moscow, Russia.
- Jan. 2012 - **Laboratory Assistant**, *Bioclinicum*, Moscow, Russia.
July 2012

Teaching & Supervision

Teaching

- 2018 **Teaching assistant**, *Computer Vision II Course*, Master's program in Artificial Intelligence, University of Amsterdam.
- 2017 **Teaching assistant**, *Information Visualization Course*, Bachelor's program in Information Science, University of Amsterdam.
- 2016 - 2019 **Teaching assistant**, *Deep Learning Course*, Master's program in Artificial Intelligence, University of Amsterdam.

Supervision

- 2019 **Faissal Imhaouran**, *MSc thesis*, supervisor, Fine-grained action recognition in kick-boxing matches.
- 2018 **Jorn Engelbart**, *MSc thesis*, co-supervisor, A real-time convolutional approach to speech emotion recognition.

- 2016 **Joop Pascha**, *BSc thesis*, co-supervisor, Predicting image appreciation with convolutional neural networks.
- 2016 **Banno Postma**, *BSc thesis*, co-supervisor, Game level generation with recurrent neural networks.

Academic Background

- Math** Mathematical Analysis, Linear Algebra, Probability Theory and Statistics, Graph Theory, Game Theory, Information Theory
- Computer Science** Algorithms and Data Structures, Parallel and Distributed Computing, Machine Learning, Computer Vision, Graphical Models, Deep Learning

Followed Courses and Training

- 2017 **Machine Learning Summer School**, *Tübingen*, Germany.
- 2017 **Computer Vision by Learning**, *Prof. dr. Cees Snoek*, University of Amsterdam, ASCI Course.
- 2016 **Visualization**, *Prof. dr. ir. Jack van Wijk*, TU Eindhoven, ASCI Course.
- 2016 **Advanced Pattern Recognition**, *Prof. dr. Marco Loog*, TU Delft, ASCI Course.
- 2014, 2016 **International Computer Vision Summer School**, *Sicily*, Italy.
- 2012 **Introduction to text processing**, *Dr. Denis Turdakov*, Lomonosov Moscow State University.
- 2011 **Bayesian Methods of Machine Learning**, *Dr. Dmitry Vertov*, Lomonosov Moscow State University.

Academic Services

Organization

- 2016 **Volunteer**, *European Conference on Computer Vision*, Amsterdam, The Netherlands.

Reviewer

- 2016 **ACM MM**.
- 2018 **ACM MM, BMVC**.
- 2019 **CVPR, ICCV, BMVC**.
- 2020 **CVPR, AACL**.

Publications

- 1 K. Gavriluk, R. Sanford, M. Javan, C. G. M. Snoek. "Actor-Transformers for Group Activity Recognition", accepted to Conference on Computer Vision and Pattern Recognition, Seattle, USA, 2020.
- 2 T. F. H. Runia, K. Gavriluk, C. G. M. Snoek, A. W. M. Smeulders. "Never Seen Physical Measurements through Simulations: A Case Study of Cloth in the Wind", accepted to Conference on Computer Vision and Pattern Recognition, Seattle, USA, 2020.
- 3 K. Gavriluk, A. Ghodrati, Z. Li, C. G. M. Snoek. "Actor and Action Video Segmentation from a Sentence", in Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition, Salt Lake City, USA, 2018. **Oral presentation**

- 4 Z. Li, K. Gavriluk, E. Gavves, M. Jain, C. G. M. Snoek. "VideoLSTM Convolves, Attends and Flows for Action Recognition", Computer Vision and Image Understanding, vol. 166, pp. 41-50, 2018.
- 5 A. Migukin, D. Korobchenko, M. Sirotenko, K. Gavriluk, S. Choi, P. Gulaka, M. Rychagov. "DESIRE: Efficient MRI reconstruction with Split Bregman initialization and sparse regularization based on pre-learned dictionary", in Society Magnetic Resonance Angiography (SMRA) Conference, 2015.
- 6 E. Riabenko, M. Kogadeeva, K. Gavriluk, E. Sokolov, I. Shanin, A. Tonevitsky. "Comparing Affymetrix Human Gene 1.0 ST preprocessing methods on tissue mixture data", in International Conference on Bioinformatics and Biomedical Engineering (iCBBE), 2012.

Patents

- 1 K. Gavriluk, A. Ghodrati, Z. Li, C. G. M. Snoek. "Spatio-temporal action and actor localization". US Patent App. 16/189,974, 2019.
- 2 A. Migukin, D. Korobchenko, M. Sirotenko, K. Gavriluk, P. Gulaka, S. Choi, M. Rychagov, Y. L. Choi. "Magnetic Resonance Imaging Device and Method for Generating Magnetic Resonance Image". WO2015167307, 2015.