

## Education

University of Oxford	OXFORD, UNITED KINGDOM
CDT/DPhil in Autonomous Intelligent Machines and Systems	2018 – 2023
Working on Reinforcement Learning under the supervision of Dr. Shimon Whiteson.	
RWTH Aachen University	BONN-AACHEN, GERMANY
Master degree in Media Informatics (top 5% of the class, Dean's list)	2015 – 2017
Focusing on Machine Learning in Computer Vision, thesis on Reinforcement Learning.	
Moscow State University	MOSCOW, RUSSIA
Bachelor of Science, faculty of Computational Mathematics and Cybernetics	2012 – 2015
As a thesis created the software package that is currently used at the Bioinformatics lab at the University.	
Moscow State Institute of International Relations	MOSCOW, RUSSIA
Bachelor of Art, faculty of Economics (IT in international Business)	2008 – 2012
Focusing on Econometrics. Graduated with distinction.	

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## Professional Experience

NVIDIA	SANTA CLARA, USA
Graduate Research Intern	June 2019 – September 2019
Part of the Applied Deep Learning Research team working on Reinforcement Learning for SAT solvers [6].	
Latent Logic (former Morpheus Labs)	OXFORD, UNITED KINGDOM
Junior Researcher	September 2017 – August 2018
Working on human behaviour modelling using Reinforcement Learning and Learning from Demonstration techniques. Development of the in-house learning library.	
Microsoft Research	CAMBRIDGE, UNITED KINGDOM
Visiting student	Mar 2017 – May 2017
Working on Reinforcement learning part of my master thesis at Machine Intelligence and Perception Group with Sebastian Nowozin and Katja Hofmann. The project resulted in [1].	
RWTH Computer Vision Group	AACHEN, GERMANY
Master student	Jan 2017 – Sep 2017
Human behaviour modelling in computer games domain. Co-supervision with Bastian Leibe and Sebastian Nowozin from Microsoft Research. <a href="http://atarigrandchallenge.com/">http://atarigrandchallenge.com/</a>	
Student assistant	Oct 2015 – Dec 2016
Implementing the ROS node for head orientation prediction. Working on person re-identification project [2]. <a href="https://github.com/VisualComputingInstitute/BiternionNets-ROS">https://github.com/VisualComputingInstitute/BiternionNets-ROS</a>	
Terminal	MOSCOW, RUSSIA
Java EE Developer/Project Manager	Nov 2013 – Aug 2015
Leading a team of four people developing a warehouse management system from scratch (30 users).	
CDC.ru	MOSCOW, RUSSIA
Android developer	May 2013 – Nov 2013
Member of a development team of a mobile app for a kind of ERP system. Completely refactored reports module and made a large amount of bug fixes.	

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## Skills

**Technical expertise:** Python, Java SE/EE, Android development, GNU/Linux (10+ years of experience). Worked with Theano, Tensorflow, Chainer and Pytorch. Use Jupyter notebooks for visualisation. Experience with working via remote computing services as AWS or Azure.

**Research interests:** Reinforcement Learning for the environments with dynamic state and action spaces. Leveraging existing knowledge to help RL with sample efficiency (e.g. Learning from Demonstration).

**Natural languages:** Russian (*mother tongue*), English (*full professional proficiency*), German (*elementary proficiency*), French (*elementary proficiency*) and Mandarin Chinese (*beginner*).

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## Publications

- [1] [The Atari Grand Challenge Dataset](#), **Vitaly Kurin**, Sebastian Nowozin, Katja Hofmann, Lucas Beyer, and Bastian Leibe, arXiv preprint arXiv:1705.10998, 2017.
  - [2] [Towards a Principled Integration of Multi-Camera Re-Identification and Tracking through Optimal Bayes Filters](#), Lucas Beyer, Stefan Breuers, **Vitaly Kurin**, Bastian Leibe, CVPR 2017 ReID and MTMCT workshop.
  - [3] [Learning from Demonstration in the Wild](#), Feryal Behbahani, Kyriacos Shiarlis, Xi Chen, **Vitaly Kurin**, Sudhanshu Kasewa, Ciprian Stirbu, João Gomes, Supratik Paul, Frans A. Oliehoek, João Messias, Shimon Whiteson, arXiv preprint arXiv:1811.03516, 2018.
  - [4] [Fast Context Adaptation via Meta-Learning](#), Zintgraf, Luisa M., Kyriacos Shiarlis, **Vitaly Kurin**, Katja Hofmann, and Shimon Whiteson, International Conference on Machine Learning (ICML) 2019.
  - [5] [Fast Efficient Hyperparameter Tuning for Policy Gradients](#), Supratik Paul, **Vitaly Kurin**, Shimon Whiteson, NeurIPS 2019.
  - [6] [Improving SAT Solver Heuristics with Graph Networks and Reinforcement Learning](#), **Vitaly Kurin**, Saad Godil, Shimon Whiteson, Bryan Catanzaro, arXiv preprint arXiv:1909.11830 (2019).
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## Talks

1. "Learning from Demonstration" at Databeers Branded Edition with BBVA Data & Analytics, September 3rd 2018.
  2. "Graph Networks", at the [Centre for Visual Information Technology \(CVIT\)](#) at International Institute of Information Technology, Hyderabad, India, March 19th 2019.
  3. "Graph Networks", at the [Robotics and Autonomous Systems CDT Conference 2019](#), Edinburgh, 3-4 June 2019.
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## Teaching

1. [Machine Learning](#), University of Oxford, Michaelmas 2018, Marker.
  2. [Artificial Intelligence](#), University of Oxford, Hilary 2019, Marker.
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## Student supervision

1. Jeffrey Mak, master thesis, 2019, co-supervision with Wendelin Boehmer
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## Conferences

1. [ICML 2019 Imitation, Intent, and Interaction \(I3\) workshop](#), reviewer.
  2. [Robotics and Autonomous Systems CDT Conference 2019](#), organiser, reviewer.
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## Prizes and scholarships

- Samsung R&D Institute UK studentship, 2018-2023.
- NeurIPS 2019 Travel Award.