

Education

2017 – present	MPhil/PhD Theoretical Neuroscience University College London, London (UK) Gatsby Computational Neuroscience Unit
2013 – 2017	BSc Applied Mathematics and Physics (Honours) Moscow Institute of Physics and Technology (State University), Moscow (Russia) Department of Control and Applied Mathematics Average Grade: 8.8/10

Research experience

April 2018 – present	Gatsby Unit, UCL, research group of Prof. Latham PhD student Topic: associative memory models
November 2018 – February 2019	Google DeepMind, collaboration with Tor Lattimore Breadth rotation student Topic: adaptivity in adversarial bandits
September 2016 – August 2017	Skoltech, research group of Prof. Maximov Research intern at Center for Energy Systems Topic: non-convex optimization
July 2016 – August 2016	Summer Research Program, EPFL, Prof. Gerstner's lab Summer intern in Computational Neuroscience Topic: generating long-time sequences from structured neural networks
January 2016 – July 2016	MIPT, under the guidance of Dr. Grudinin Course project Topic: optimization in application to structural biology
July 2015 – September 2015	Amgen Scholars Program, LMU Munich, Prof. Leibold's lab Summer intern in Computational Neuroscience Topic: simulation models of path planning in the hippocampal-cortical network

Teaching

September 2018 – March 2019	Gatsby Unit, UCL <i>Teaching assistant</i> Probabilistic and Unsupervised Learning (COMPGI18) Approximate Inference and Learning in Probabilistic Models (COMPGI16) Systems and Theoretical Neuroscience <i>Responsibilities:</i> tutorials, marking, coordination of the Gatsby TAs, some assignments for neuroscience
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Other

September 2016 – June 2017	Yandex School of Data Analysis, Moscow (Russia) Department of Computer Science Master's-level courses in computer science and data analysis
September 2016 – March 2017	MIPT office for international internships Team member Data collection and work with students

February 2014 –
June 2015

MIPT volunteering team
Group leader
Work with an orphanage

Skills

- Programming
 - C, C++ (algorithms, course and research projects)
 - Python (data analysis, TensorFlow, PyTorch, research projects)
 - Matlab (numerical optimization)
- Other
 - Linux-based OS, \LaTeX , Mathematica
- Languages
 - English C1 (Advanced, TOEFL iBT score 103)
 - Russian C2 (Native Speaker)

Papers

[Google Scholar link](#)

- July 2019 On First-Order Bounds, Variance and Gap-Dependent Bounds for Adversarial Bandits
R. Pogodin, T. Lattimore
In Proceedings of the Conference on Uncertainty in Artificial Intelligence (UAI) 2019
- October 2017 Efficient rank minimization to tighten semidefinite programming
for unconstrained binary quadratic optimization
R. Pogodin, M. Krechetov, Y. Maximov
In Proceedings of the 55th Annual Allerton Conference on Communication,
Control, and Computing (Allerton)
- September 2016 Quadratic Programming Approach to Fit Protein Complexes into Electron Density Maps
R. Pogodin, A. Katrutsa, S. Grudin
In Proceedings of Information Technologies and Systems 2016

Workshop Papers

- December 2019 Working memory facilitates reward-modulated Hebbian learning in
recurrent neural networks
R. Pogodin, D. Corneil, A. Seeholzer, J. Heng, W. Gerstner
Accepted to NeurIPS 2019 workshop Real Neurons & Hidden Units:
future directions at the intersection of neuroscience and AI

Posters

- September 2019 NCCD 2019
Title: Associative memory in winner-take-all networks:
from binary units to spikes (with Peter Latham)
- March 2019 COSYNE 2019
Title: Memories in coupled winner-take-all networks (with Peter Latham)
- June 2017 Ninth Traditional school "Control, Information, Optimization"
- September 2016 Information Technologies and Systems 2016
- August 2016 Summer Research Program, EPFL
- June 2016 Eighth Traditional school "Control, Information, Optimization"
- November 2015 58th MIPT Scientific Conference
- September 2015 Amgen Program Cambridge symposium
- August 2015 Amgen Program LMU symposium

Honors and Awards

September 2016 – Increased State Academic Scholarship for research achievements
December 2016

February 2014 – Abramov fund scholarship for best non-senior students
June 2016