Roman Pogodin, CV

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github: https://github.com/romanpogodin

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
Teaching assistant

Probabilistic and Unsupervised Learning (COMPGI18)
Approximate Inference and Learning in Probabilistic Models (COMPGI16)
Systems and Theoretical Neuroscience
Responsibilities:
tutorials, marking, coordination of the Gatsby TAs, some assignments for neuroscience

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, deep learning with TensorFlow, 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

March 2019
Adaptivity, Variance and Separation for Adversarial Bandits
R. Pogodin, T. Lattimore
Accepted to 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. Grudinin
In Proceedings of Information Technologies and Systems 2016

Posters

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 – December 2016
Increased State Academic Scholarship for research achievements

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