

Gleb Posobin

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Education

- 2018–now* PhD, Theoretical Computer Science, Columbia university
Currently working on information theory, data structure lower bounds.
- 2014–2018* B.Sc., Computer Science, Higher School of Economics
First in the cumulative rating of senior students.
- 2014–2016* Independent University of Moscow ium.mccme.ru/english
This is an institution where advanced math courses are taught. I have finished the first year and took several second-year courses, such as complex analysis and differential geometry.

Work experience

- 2019* Software engineering intern at Cruise getcruise.com
Developed a prototype for an improved lidar calibration system that decreases *total* sensor calibration time 4x for each car.
- 2016–2018* Research assistant at the laboratory of theoretical computer science, Higher School of Economics
- 2017* Summer research internship at EPFL, Switzerland ic.epfl.ch/SummerAtEPFL
Worked for two and a half months on a project in information theory.
- 2017–2018* Machine learning researcher at Prisma labs prismalabs.ai
Worked on various deep learning research projects, such as image generation with GANs, improvements to classical image style transfer, and scene recognition.

Selected projects

- 2019–now* Ampie ampie.app
Browser extension that on every web page highlights the links that had appeared in your Twitter feed or on Hacker News, and lets you discover and share interesting pages. In Clojure and ClojureScript. github.com/posobin/ampie
- 2015* Convolutional neural networks in C++ github.com/cs-hse-projects/artificial-neural-network
A custom framework for creating and using convolutional neural nets in C++ on CPU, takes advantage of multithreading.
- 2015* xv6 github.com/posobin/xv6
Extended Unix-like educational OS xv6 to support multithreading, added kernel memory allocator, users and various smaller features.
- 2012* Unofficial last.fm client for windows phone github.com/posobin/wp.fm

Achievements

- 2015, 2016 Prize winner at the International Mathematical Competition for university students imc-math.org.uk
Won third prize in 2015 and second prize in 2016.
- 2016, 2017 Double recipient of Ilya Segalovich scholarship
Ilya Segalovich scholarship is merit-based and awarded yearly to the students of computer science department at Higher School of Economics by Yandex.

Papers

- 2020 Polynomial Data Structure Lower Bounds in the Group Model ecc.weizmann.ac.il
/report/2020/057
Alexander Golovnev, Gleb Posobin, Oded Regev, Omri Weinstein To be presented at FOCS 2020
- 2018 Random noise increases Kolmogorov complexity and Hausdorff dimension arxiv.org/abs/1808.04626
Gleb Posobin, Alexander Shen Presented at STACS 2019
- 2016–2017 Computing majority with low-fan-in majority queries arxiv.org/abs/1711.10176
Gleb Posobin
- 2017 Plain stopping time and conditional complexities revisited arxiv.org/abs/1708.08100
Mikhail Andreev, Gleb Posobin, Alexander Shen Presented at MFCS 2018

Technical experience

- languages* C++, Clojure(Script), Python — good working knowledge, actively using
C#, Ruby — had good knowledge of, used in the past
Bash, ML, Racket, F#, assembly, JavaScript — fair knowledge
- technologies* Unix, React, SQL, Postgres — good working knowledge
Pytorch, TensorFlow — had good knowledge of, used in the past