

## Hayk Saribekyan

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### EDUCATION

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<b>Massachusetts Institute of Technology, Cambridge, MA</b> Candidate for a Master of Engineering in Computer Science Computational Connectomics Group, CSIAL. Advisor: Nir Shavit Recent classes: Advanced Algorithms, Theory of Probability	<b>GPA N/A</b> June 2017
<b>Massachusetts Institute of Technology, Cambridge, MA</b> Bachelor of Science in Computer Science, Minor in Mathematics Advanced classes: Distributed Algorithms, Distributed Systems, Multicore Programming	<b>GPA 4.9/5</b> June 2016
<b>University of Cambridge, Cambridge, UK</b> Exchange student, Part II of Mathematical Tripos Classes: Graph Theory, Topics in Analysis, Algebraic Topology, Stochastic Financial Models	<b>GPA N/A</b> June 2015

### EXPERIENCE

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<b>Candidate for a Master of Engineering, MIT, CSAIL</b> Working in Computational Connectomics Group on a high-throughput concurrent connectomics pipeline. Focus on developing algorithms for querying large neuronal graphs obtained from the segmentation of brain images.	<b>September 2016 - June 2017</b>
<b>Undergraduate Researcher, MIT, CSAIL</b> Project topic: Big Data Agglomeration for Connectomics. Implemented a fast, concurrent merging of segmentations. Worked on the high-throughput concurrent pipeline for connectomics.	<b>June 2015 - June 2016</b>
<b>Software Engineering Intern, D.E. Shaw &amp; Co.</b> Worked in company's Futures group, worked on data compression and storage. Languages/Technologies: Python, HDF5	<b>May 2014 - August 2014</b>
<b>Software Engineering Intern, Google Inc.</b> Worked on DoubleClick Search. Optimized sync from engine accounts which resulted in ten fold sync speed increase. Languages/Technologies used: Java, Mockito, Guice	<b>June 2013 - August 2013</b>

### AWARDS

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<b>Department of Electrical Engineering and Computer Science, MIT</b> Anna Pogoyants UROP Award for an outstanding research project	2016
<b>International Olympiad in Informatics</b> Silver Medal	2009
Bronze Medal	2008
<b>International Mathematical Olympiad</b> Honorable Mention	2009
<b>International Astronomy Olympiad</b> First Prize	2008

### LEADERSHIP / ACTIVITIES

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<b>MIT Global Teaching Labs Program</b> Taught Introduction to Machine Learning in a summer school. Coordinated GTL Armenia program (enrolling students, organizing classes, trips).	Yerevan, Armenia July 2016
<b>MIT Global Teaching Labs Program</b> Taught basic algorithms and their implementation in a technical high school.	Prato, Italy January 2014
<b>International Olympiad in Informatics (IOI)</b> Deputy Leader of Armenian National Team Trained students for the national and international competitions. As a jury member in Armenian National Olympiad prepared tasks and tests for the competition.[1]	Pattaya, Thailand 2011

### SKILLS

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<b>Programming and Technologies</b>	Java, C, C++, Python, Go Familiarity with Google Guice, Guava Libraries, Mockito
<b>Foreign Languages</b>	Armenian (native), Russian (fluent), French (beginner)

## **PUBLICATIONS**

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- Alexander Matveev, Yaron Meirovitch, Hayk Saribekyan, Wiktor Jakubiuk, Tim Kaler, Gergely Odor, David Budden, Aleksandar Zlateski, and Nir Shavit. A multicore path to connectomics-on-demand. In *Proceedings of the 22nd ACM SIGPLAN Symposium on Principles and Practice of Parallel Programming*, PPOPP '17. ACM, to appear in 2017. (Best Paper nominee)
- Yaron Meirovitch, Alexander Matveev, Hayk Saribekyan, David Budden, David Rolnick, Gergely Odor, Seymour Knowles-Barley, Thouis Raymond Jones, Hanspeter Pfister, Jeff William Lichtman, and Nir Shavit. A multi-pass approach to large-scale connectomics. *arXiv preprint arXiv:1612.02120*, 2016