Erick Lin

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EDUCATION

Georgia Institute of Technology, Atlanta, GA   Aug 2014-
- B.S. in Computer Science, May 2017 (expected)
  - Threads/specializations: Systems & Architecture, Theory
- B.S. in Applied Mathematics, May 2017 (expected)
- Current GPA: 3.69/4.0 (7-8 core classes/semester)

EXPERIENCE

Distributed Computing Group, Parasol Laboratory, Texas A&M University   May-Aug 2016
- Implemented high-performance relaxations of stacks and priority queues in partially synchronous message-passing systems, proving their correctness as well as upper and lower bounds (first-author publication in progress)

Robot Learning Lab, Georgia Tech Institute for Robotics and Intelligent Machines   Oct 2014-
- Constructed and demonstrated quantum analogues of hidden Markov models and predictive state representations in software; currently designing learning methods
- Developed deep learning architecture in Caffe for fast segment-based object tracking (publication under review for submission to CVPR)

LAMP Stack Internship, **Cresca Group**, Norcross, GA   May-Aug 2015
- Led team of 5 interns to complete back-end of web application that processes and standardizes order information from various online sales channels and handles RESTful communications with their APIs

Laboratory for Computational Neurodiagnostics, Stony Brook University, NY   Jun-Aug 2014
- Created engaging pattern detection task in MATLAB and Psychtoolbox, which we used for behavioral experiments involving human volunteers

HONORS/AWARDS

ACM-ICPC Southeast Regional – 5th place in Division I	Nov 2016
President's Undergraduate Research Salary Award (x2)	2016
ConocoPhillips Innovation Challenge (1 of 16 invited), Bartlesville, OK	Apr 2015
National Collegiate Research Conference, Harvard University, Cambridge, MA	Jan 2015
Algorithms with a Purpose, **ACM@CMU** – 4th place (out of 95 teams)	Oct 2014
Simons Summer Research Program, Stony Brook University, NY	Jun-Aug 2014

- Considered one of the most competitive programs of its kind in the U.S.
- Project selected as **semifinalist** in **Siemens Competition** and advanced to international level at **Intel International Science and Engineering Fair**

USA Computing Olympiad – **Gold Division**	2014
National Advanced Placement Scholar, **National Merit Finalist**	2014
Governor's School for Computational Physics, Clarksville, TN	Jun 2013

SKILLS

Selected Coursework:	**Graduate:** Machine Learning, Advanced Operating Systems, Probabilistic Combinatorics, Measure Theory, Algebraic Topology **Undergraduate:** Compiler Construction, Operating System Engineering, Processor Design, Honors Algorithms I & II, Quantum Computing and Quantum Information, Combinatorial Analysis, Real Analysis, Abstract Algebra, Topology
Programming	Java, C, C++, Octave/MATLAB, Javascript, MySQL, MIPS and x86 assembly, Bash/shell,

Languages:	Verilog, LaTeX, Fortran, Haskell
OS/Software:	UNIX/Linux (Ubuntu, Arch), Git, Vim, Emacs, OpenMP, MPI, gRPC, Caffe, Android Studio
Hardware:	Altera FPGAs

ACTIVITIES/LEADERSHIP

President, **ACM Programming Team** — Aug 2016-

- Member, **ACM Programming Team** — Aug 2014-

Note Taker, Office of Disability Services, Georgia Institute of Technology — Aug 2014-

YHack 2015, Yale University, New Haven, CT — Nov 2015

Violist, **GT Chamber Strings** — Jan 2016-

Webmaster/Vice President, **SABUR** (sabur.gtorg.gatech.edu) — Apr 2015-

Webmaster, **Runnin' Wreck** (runninwreck.gtorg.gatech.edu) — Aug 2014-

Navy Seal Challenge, GT Campus Recreation Center – 6th place (out of 103) — Feb 2016

Putnam Competition score: 21 — Dec 2014