

Eddie Yan

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<https://linux.ucla.edu/~eqy>

Education	University of Washington Graduate Student in Computer Science and Engineering Current GPA: 3.93	2015 — Present
	University of California, Los Angeles B.S. Electrical Engineering, Computer Engineering Focus GPA: 3.78	2011—2015
Experience	Intern , NVIDIA Research	June 2017 — September 2017
	<ul style="list-style-type: none">• Novel techniques to improve warp execution efficiency in irregular applications• Mentors: Daniel Johnson, Mark Stephenson	
	Research Assistant , Sampa Lab, UCLA	October 2015 — Present
	<ul style="list-style-type: none">• Specializing storage for image data• Evaluating techniques for machine learning acceleration• Advisor: Luis Ceze	
	Research Assistant , The Ozcan Lab, UCLA	October 2013 — June 2015
	<ul style="list-style-type: none">• Software development in telemedicine and mobile health• Porting MATLAB[®] code to Java/C++/OpenCV• Android application development	
	Research Assistant , UCLA Applied Mathematics REU	June 2013 — August 2013
Skills	<ul style="list-style-type: none">• Development of machine learning based computer-aided diagnosis tools for bilateral temporal lobe epilepsy• Implemented spectral clustering and feature selection algorithms in MATLAB[®]• Experimented with SVM libraries: Weka, LIBSVM	
	Research Assistant , Masmanidis Lab, UCLA	October 2012 — June 2013
Skills	<ul style="list-style-type: none">• Optimized spike sorting analysis of electrophysiological data through MATLAB[®]• Implemented an algorithm to automatically evaluate the quality of merged waveforms• Used principal component analysis to evaluate the separation of waveforms	
	Research Volunteer , Semel Institute, UCLA	October 2012 — June 2013
Skills	<ul style="list-style-type: none">• Streamlined research workflow through automation• Experimented with shell scripting and the Google Drive API	
	<u>Languages:</u>	MATLAB [®] , C++, C, Python, Java, Bash, L ^A T _E X
	<u>Other Skills:</u>	x86 PC Assembly and Repair, UCLA IEEE OPS Graduate (Soldering, Breadboard prototyping)
Github	https://github.com/eqy	

Publications

Customizing Progressive JPEG for Efficient Image Storage

Eddie Yan, Kaiyuan Zhang, Xi Wang, Karin Strauss, Luis Ceze

HotStorage 2017

<https://www.usenix.org/system/files/conference/hotstorage17/hotstorage17-paper-yan.pdf>

Master Maker: Understanding Gaming Skill through Practice and Habit from Gameplay Behavior

Jeff Huang, Eddie Yan, Gifford Cheung, Nachiappan Nagappan, Thomas Zimmermann
Topics in Cognitive Science

<https://doi.org/10.1111/tops.12251>

An Evaluation of Contemporary Heterogeneous Computing Platforms for Data Intensive Applications (short paper)

Vincent T. Lee, Carlo C. del Mundo, Eddie Yan, Armin Alaghi, Mark Oskin, Luis Ceze
Fourth Workshop on Efficient Data Center Systems (EDCS), 2016

<http://homes.cs.washington.edu/~vlee2/docs/vlee-edcs-2016.pdf>

Masters of Control: Behavioral Patterns of Simultaneous Unit Group Manipulation in StarCraft 2

Eddie Yan, Jeff Huang, Gifford Cheung

CHI 2015

<http://dl.acm.org/citation.cfm?id=2702429>

Imaging and Sizing of Single DNA Molecules on a Mobile Phone

Qingshan Wei, Wei Luo, Samuel Chiang, Tara Kappel, Crystal Mejia, Derek Tseng, Raymond Yan Lok Chan, Eddie Yan, Hangfei Qi, Faizan Shabbir, Haydar Ozkan, Steve Feng, and Aydogan Ozcan

ACS Nano

<http://pubs.acs.org/doi/abs/10.1021/nm505821y>

Detection and Spatial Mapping of Mercury Contamination in Water Samples using a Smart-Phone

Qingshan Wei, Richie Nagi, Kayvon Sadeghi, Steve Feng, Eddie Yan, So Jung Ki, Romain Caire, Derek Tseng, and Aydogan Ozcan

ACS Nano

<http://pubs.acs.org/doi/abs/10.1021/nn406571t>

Misc. Past Projects

A Ray Tracing Analysis of Efficiency Enhancement of InGaN Based Light Emitting Diodes Through Geometric Chip Modifications 2011

An Analysis of Clock Rate and Thermal Scaling in Modern Multi-Core Microprocessors 2010

Academic Honors

Member, Tau Beta Pi - California Epsilon	2012 —
Member, Eta Kappa Nu	2012 —
Intel Science Talent Search Semifinalist (project listed above)	2011
National Merit Finalist	2011