

## Eddie Yan

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

<b>Education</b>	University of Washington Graduate Student in Computer Science and Engineering Current GPA: 4.00	2015 — Present
	University of California, Los Angeles B.S. Electrical Engineering, Computer Engineering Focus GPA: 3.78	2011—2015
<b>Experience</b>	<b>Research Assistant</b> , Sampa group, UW	October 2015 — Present
	<ul style="list-style-type: none"><li>• Designing storage systems specialized for image data</li><li>• Developing benchmarks to evaluate hardware accelerators for machine learning</li></ul>	
	<b>Research Assistant</b> , The Ozcan Lab, UCLA	October 2013 — June 2015
	<ul style="list-style-type: none"><li>• Software development in telemedicine and mobile health</li><li>• Porting MATLAB<sup>®</sup> code to Java/C++/OpenCV</li><li>• Android application development</li></ul>	
	<b>Research Assistant</b> , UCLA Applied Mathematics REU	June 2013 — August 2013
	<ul style="list-style-type: none"><li>• Development of machine learning based computer-aided diagnosis tools for bilateral temporal lobe epilepsy</li><li>• Implemented spectral clustering and feature selection algorithms in MATLAB<sup>®</sup></li><li>• Experimented with SVM libraries: Weka, LIBSVM</li></ul>	
<b>Skills</b>	<b>Research Assistant</b> , Masmanidis Lab, UCLA	October 2012 — June 2013
	<ul style="list-style-type: none"><li>• Optimized spike sorting analysis of electrophysiological data through MATLAB<sup>®</sup></li><li>• Implemented an algorithm to automatically evaluate the quality of merged waveforms</li><li>• Used principal component analysis to evaluate the separation of waveforms</li></ul>	
	<b>Research Volunteer</b> , Semel Institute, UCLA	October 2012 — June 2013
	<ul style="list-style-type: none"><li>• Streamlined research workflow through automation</li><li>• Experimented with shell scripting and the Google Drive API</li></ul>	
	<u>Languages:</u>	MATLAB <sup>®</sup> , C++, C, Python, Java, Bash, L <sup>A</sup> T <sub>E</sub> X
	<u>Other Skills:</u>	x86 PC Assembly and Repair, UCLA IEEE OPS Graduate (Soldering, Breadboard prototyping)
<b>Github</b>	<a href="https://github.com/eqy">https://github.com/eqy</a>	
<b>Publications</b>	<b>Masters of Control: Behavioral Patterns of Simultaneous Unit Group Manipulation in StarCraft 2</b>	
	Eddie Yan, Jeff Huang, Gifford Cheung	
	<a href="http://dl.acm.org/citation.cfm?id=2702429">http://dl.acm.org/citation.cfm?id=2702429</a>	
	<b>Imaging and Sizing of Single DNA Molecules on a Mobile Phone</b>	

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

<http://pubs.acs.org/doi/abs/10.1021/nn505821y>

**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

<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 (scored in top 0.1% on PSAT)	2011