Eddie Yan

eddieyan101@gmail.com

`https://linux.ucla.edu/~eqy`

Education	University of Washington Graduate Student in Computer Science and Engineering GPA: 4.00	2015 — Present Current
	University of California, Los Angeles B.S. Electrical Engineering, Computer Engineering Focus GPA: 3.78	2011—2015

Experience

Research Assistant, The Ozcan Lab, UCLA   October 2013 — June 2015
- 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
- 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
- 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
- Streamlined research workflow through automation
- Experimented with shell scripting and the Google Drive API

Skills

<u>Languages:</u>	MATLAB®, C++, C, Python, Java, Bash, LaTeX
<u>Other Skills:</u>	x86 PC Assembly and Repair, UCLA IEEE OPS Graduate (Soldering, Breadboard prototyping)

Github   `https://github.com/eqy`

Publications

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, to appear

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/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

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 (scored in top 0.1% on PSAT)	2011