



Yichen WU (Chris)

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SUMMARY

Yichen Wu (Chris) is a Ph.D. student in Bio-Photonics Lab led by Prof. Aydogan Ozcan in Electrical Engineering Department of University of California, Los Angeles (UCLA). He received his Bachelor degree in Optical Engineering, with Outstanding Honor Award from Zhejiang University, China in 2014. Yichen is a student member of OSA and SPIE, and a member of OSA/SPIE student chapter at UCLA.

EDUCATION

Ph.D. in Electrical Engineering University of California, Los Angeles (UCLA) Los Angeles, CA, USA	09/2014 - Present
M.S. in Electrical Engineering University of California, Los Angeles (UCLA) Los Angeles, CA, USA	09/2014 – 06/2016
B.S.E. in Optical Engineering Zhejiang University Hangzhou, Zhejiang, China 4-year GPA 92.4/100	09/2010 - 06/2014

AWARDS

- 2nd Place, Wireless Innovation Project, Vodafone Americas Foundation, 2016
- Finalist, Wireless Innovation Project, Vodafone Americas Foundation, 2016
- Best Demo Presentation, HHMI Research, Training and Innovation Program, UCLA, 2016
- Best Poster Presentation, HHMI Research, Training and Innovation program, UCLA, 2015
- Departmental Fellowship, University of California, Los Angeles, 2014-2015
- Graduation with Outstanding Honor Award, Zhejiang University, 2014
- 1st Prize, Research & Innovation, Zhejiang University, 2013

1st Prize, Mathematical Modeling Contest, Zhejiang Province, 2012

1st Prize, Mathematical Modeling Contest, Zhejiang University, 2012

National Scholarship, Chinese Ministry of Education, 2011

1st Prize, Scholarship for Outstanding Students, Zhejiang University, 2011-2013

RESEARCH

GRADUATE STUDENT RESEARCHER, BIO-PHOTONICS LAB, UCLA , USA **09/2014-PRESENT**

Project: High throughput, high resolution lens-free on-chip microscopy

Advisor: Prof. Aydogan OZCAN

UNDERGRADUATE RESEARCHER, ZHEJIANG UNIVERSITY, CHINA **05/2013-07/2014**

Project: Graphene-isolated surface enhanced Raman scattering (SERS) for Molecule Sensing

Advisor: Prof. Longhua TANG, & Prof. Xiangjiang LIU

RESEARCH INTERN, UNIVERSITY OF BRITISH COLUMBIA, CANADA **07/2013-09/2013**

Project: Silicon-on-Insulator(SOI) based micro-resonator bio-sensor

Advisor: Prof. Lukas CHROSTOWSKI

UNDERGRADUATE RESEARCHER, ZHEJIANG UNIVERSITY, CHINA **10/2012-05/2014**

Project: Integrated cascaded Vernier double-ring bio-sensor

Advisor: Prof. Jianjun HE

PUBLICATIONS

Peer-Reviewed Journals Articles

Alborz Feizi, Yibo Zhang, Alon Greenbaum, Alex Guziak, Michelle Luong, Raymond Yan Lok Chan, Brandon Berg, Haydar Ozkan, Wei Luo, Michael Wu, **Yichen Wu** and ydogan Ozcan. "*Rapid, portable and cost-effective yeast cell viability and concentration analysis using lensfree on-chip microscopy and machine learning.*" Lab on a Chip (2016). <http://pubs.rsc.org/-/content/articlehtml/2016/lc/c6lc00976j>

Yichen Wu, Yibo Zhang, Wei Luo and Aydogan Ozcan, "*Demosaiiced pixel super-resolution for multiplexed holographic color imaging.*" Scientific Reports 6 (2016). <http://www.nature.com/articles/srep28601>

Yibo Zhang, **Yichen Wu**, Yun Zhang, and Aydogan Ozcan. "*Color calibration and fusion of lens-free and mobile-phone microscopy images for high-resolution and accurate color reproduction.*" Scientific reports 6 (2016): 27811. <http://www.nature.com/articles/srep27811>

Xiangjiang Liu, Jiajun Wang, **Yichen Wu**, Tianren Fan, Yang Xu, Longhua Tang, Yibin Ying. "*Compact Shielding*

of Graphene Monolayer Leads to Extraordinary SERS-Active Substrate with Large-Area Uniformity and Long-Term Stability." Scientific Report, DOI: 10.1038/srep17167 (2015). <http://www.nature.com/articles/srep17167>

Fard, Sahba Talebi, Valentina Donzella, Shon A. Schmidt, Jonas Flueckiger, Samantha M. Grist, **Yichen Wu**, Rick J. Bojko, Ezra Kwok, Nicolas A.F. Jaeger, Daniel M. Ratner, Lukas Chrostowski . "*Performance of ultra-thin SOI-based resonators for sensing applications.*" Optics Express 22, no. 12 (2014): 14166-14179. <https://www.osapublishing.org/oe/abstract.cfm?uri=oe-22-12-14166>

Peer-Reviewed Conference Proceedings

Yibo Zhang, **Yichen Wu**, Yun Zhang, and Aydogan Ozcan. "*Fusion of Lens-free and Lens-based Microscope Images for Accurate Color Imaging.*" In CLEO: Science and Innovations, pp. STh3G-3. Optical Society of America, 2016. https://www.osapublishing.org/abstract.cfm?uri=CLEO_SI-2016-STh3G.3

Yichen Wu, Yibo Zhang, Wei Luo, and Aydogan Ozcan. "*Multiplexed Color Imaging Using Demosaiced Pixel Super-Resolution.*" In CLEO: Applications and Technology, pp. AM4O-6. Optical Society of America, 2016. https://www.osapublishing.org/abstract.cfm?uri=CLEO_AT-2016-AM4O.6

Chrostowski, Lukas, Xu Wang, Jonas Flueckiger, **Yichen Wu**, Yun Wang, and Sahba Talebi Fard. "*Impact of fabrication non-uniformity on chip-scale silicon photonic integrated circuits.*" In Optical Fiber Communication Conference (OFC), pp. Th2A-37. Optical Society of America, 2014. <https://www.osapublishing.org/abstract.cfm?uri=OFC-2014-Th2A.37>