

# NICHOLAS YIU

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## EDUCATION

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**University of California at Berkeley**, Berkeley, CA  
Expected Bachelor of Science in Chemical Engineering, Minor in Music

Graduation date: May 2015  
GPA 3.2/4.0

## WORK EXPERIENCE

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**Professor David Levine, University of California at Berkeley**, Berkeley, CA

Sep 2012 - Present

*Undergraduate Researcher, Haas School of Business*

- Collaborated with team members and designed, modeled and created safe fires
- Developed detailed lab and fire protocols and managed experiment supply stocking
- Architected, tested and calibrated low-cost smoke detector prototypes for Ugandan households

**Hong Kong Standards and Testing Centre**, Hong Kong, PRC

May 2012 - Jun 2012

*Quality Control Intern, Department of Chemicals, Foods and Pharmaceuticals*

- Completed analysis of organochlorine pesticide residues, active ingredients of pharmaceuticals, food preservatives, and nutritional tests on proprietary Chinese medicine by performing liquid-liquid and solid-liquid separation and running sequences on GC-MS, GC-ECD and HPLC instruments.
- Prepared samples through blending, weighing, and extractions

**The Hong Kong Polytechnic University**, Hong Kong, PRC

May 2011 - Jun 2011

*Civil Engineering Intern, Department of Civil and Environmental Engineering*

- Designed and carried out viscosity test and pressure test experiments in laboratory
- Welded and soldered circuit boards to be used as pressure sensors and prepared cement

## LEADERSHIP EXPERIENCE

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**Media Saturn Global Marketing Competition**, Hong Kong, PRC

May 2010 - Jul 2010

*Project Leader*

- Leader, director and main actor in team business project
- Runner-up in international business competition by University of Applied Sciences Ingolstadt

**Hong Kong Cancer Fund**, Hong Kong, PRC

Aug 2009 - Dec 2009

*Project Manager*

- Directed twenty students to organize and promote annual walkathon event, Stride for a Cure
- Raised awareness for cancer research and funding, organized large scale event fund raising
- Raised over \$15,000 for the Hong Kong Cancer Fund for local cancer research

## ACTIVITIES

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**UC Berkeley Chemical Engineering Car Team**, Berkeley, CA

Aug 2012 - present

- Engineering a chemically-powered vehicle for an annual competition sponsored by AIChE
- Disassembled and analyzed Duracell and Energizer cells and built and experimented with Zn-MnO<sub>2</sub> battery

**Hong Kong National Swimming Team**, Hong Kong, PRC

2008 - 2012

- Captain of high school varsity swimming team (2009-2011)
- Hong Kong Junior Athlete Scholarship (Hong Kong Sports Institute, 2010-2011)
- Ranked 18<sup>th</sup> in United States (Masters Division, 18-24 yrs.) during 2011-2012 season

**Student Conservation Association, Conservation Internship**, Joshua Tree, CA

Apr 2012

- Completed invasive grass removal, planting and watering native flora, desert tortoise survey

## SKILLS

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**Languages:** fluent in English, conversational Cantonese and French

**Software:** MatLab, MestReNova, Sound Forge, Cakewalk Sonar, Microsoft Office Suite

**Safety and Chemical Engineering Program:** Certificate in Chemical Process Industries Safety