

Yongjiang LIU

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EDUCATION**Yale University****Expected May 2017***M.S., Chemical & Environmental Engineering*

• GPA: 3.9/4.0; GRE: 329

• Relevant Courses: Material Chemistry, Nanomaterials for Energy, Behavioral Economics, Consumer Behavior

Sun Yat-sen University**June 2016***B.S., Material Chemistry*

• GPA: 3.9/4.0

• Awards: First-class Scholarship (10/400), The "Challenge Cup" National Academic Competition first prize

University of California, Los Angeles**Summer 2015***Cross-disciplinary Scholars in Science and Technology, Chemistry: A+***ACADEMIC EXPERIENCE****Department of Chemical & Environmental Engineering, Yale University****August 2016-Present***Research Assistant*

New Haven, CT

• Tuned Copper Oxide's band-gap with synthetic and post-treatment methods, a work which is able to be applied in CO₂ absorption industry through CO₂ reduction reaction**Department of Chemistry, Sun Yat-sen University****March 2015-April 2016***Research Assistant*

Guangzhou, China

- Created new method modifying BiVO₄, a high-efficient catalyst used for water splitting and hydrogen generation
- Collected materials' property information with Electrochemical Workstation, Uv-Vis spectroscopy, Scanning Electron Microscope (SEM), X-ray Powder Diffraction (XRD) and X-ray photoelectron spectroscopy (XPS)
- Established new synthesis method to solve the material's stability problem, successfully making 80% promotion
- Composed academic paper with supervisor, sent paper to academic journals for publication

Department of Chemistry, University of California, Los Angeles**July 2015-September 2015***Research Assistant*

Los Angeles, CA

- Accomplished 60% increase in FeNiO nanoporous thin films' electrochemical properties through collaborating with advisor on designing and improving lab protocol, which is promising for green energy producing
- Developed a working knowledge of Matlab and Origin software for data analysis.

BUSINESS & LEADERSHIP EXPERIENCE**Yale University****September 2016-Present***Graduate Teaching Assistant*

New Haven, CT

- Communicated with students weekly on their academic life, especially on the difficulties they were facing
- Tutored 15 Yale College students individually per week on advanced Chinese study, including topics in culture, policy, business and education, focusing on systemically honing their Chinese speaking skills

Horizon Research Consultancy Group**November 2014-January 2015***Intern, Public Affairs Department*

Guangzhou, China

- Collaborated with workmates on making consulting plan, designing questionnaires and interviewing clients
- Completed consulting reports for the State Administration of Taxation. Assisted in making slides and presentations, which offer strategies to clients on helping them improving taxation service

PUBLICATION

Zeng, Yinxiang, **Liu, Yongjiang**, et al. "Advanced Ti-Doped Fe₂O₃@ PEDOT Core/Shell Anode for High-Energy Asymmetric Supercapacitors." *Advanced Energy Materials* 5.12 (2015)

LANGUAGE & SKILLS

- Language: English (Professional Proficiency), Chinese (Native)
- Computer Skills: Microsoft Office, Origin, Matlab, Dreamwaver, Chemoffice and Lightroom
- Laboratory Skills: Electrochemical Workstation, Synthesis Equipment, XPS, XRD, SEM, Raman spectrum
- Interests: Travel Photography, Blog Writing(Wechat Official Account), OW Diving, Soccer, Cognitive Science