

# JING LIAN NG

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**University of Illinois at Urbana-Champaign**

*Bachelor of Science in Chemical and Biomolecular Engineering*

December 2020

GPA: 3.70/4.00

**Taylor's University**

*American Degree Transfer Program*

December 2017

GPA: 3.68/4.00

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## PUBLICATIONS

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- Chen R, Sheehan T, Ng JL, Brucks M, Su X. "Capacitive Deionization and Electrosorption for Heavy Metal Removal." *Environmental Science: Water Research & Technology*, 2020, **6**, 258-282
  - Kim K, Ng JL, Su X. "Electrochemically-Mediated Reactive Separation of Nitrate to Ammonia Through Multifunctional Redox-Electrodes" *Submitted*
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## WORK EXPERIENCE

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**Su Lab – Dr. Xiao Su**, University of Illinois at Urbana-Champaign, IL

Summer 2019-Summer 2022

*Undergraduate Research Assistant*

- Investigated on electrochemically mediated water purification based on redox technology
- Studied on redox-copolymers for rare earth elements (REE) recovery by combining ion-exchange carboxyl group with redox-active ferrocene moiety
- Synthesized and characterized redox-copolymer electrodes for yttrium and cerium recovery
- Evaluated REE recovery performance of redox-copolymer electrodes with ICP-MS
- Researched on integrated electrochemical reactive separation of nitrogen
- Optimized electrochemical reactive separation of nitrogenous contaminants in water by designing redox electrodes
- Experimented on various electrodeposition methods for conducting polymers and metallic nanoparticles

**Recogine Technology**, Malaysia

Summer 2018

*Intern*

- Assisted in development of vehicle license plate recognition software
  - Designed training modules to improve recognition accuracy on various weather condition
  - Achieved 100% recognition accuracy on over 5000 vehicle license plate samples
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## COLLEGE LEADERSHIPS & ACTIVITIES

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**American Institute of Chemical Engineers**, Society Representative

Fall 2018-Fall 2020

**Omega Chi Epsilon**, Chemical Engineering Honor Society

**ChemE Car**, Electrochemical Cell Research Team

Fall 2018-Spring 2020

**Engineers Without Borders**, Treasurer

Fall 2018-Fall 2019

**Engineering Open House**, Project Lead

Fall 2018-Fall 2019

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## TEACHING EXPERIENCE

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**Taylor's University, Malaysia**

Fall 2016-Fall 2017

*Chemistry Teaching Assistant*

- Taught over 100 students in general chemistry
  - Held weekly office hours giving one-on-one interaction with students
  - Led discussion-oriented classes to facilitate learning
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## SKILLS

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- Python
- Potentiostat
- ICP – MS
- UV-Vis Spectroscopy