

# ALLISON GREEN

allisongreen@utexas.edu • www.linkedin.com/in/allison--green

## EDUCATION

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### University of Texas at Austin, Cockrell School of Engineering

*Doctor of Philosophy, Chemical Engineering*

(Expected 2024)

Advisors: Professors Delia J. Milliron and Thomas M. Truskett

### University of California, Berkeley, College of Chemistry

*Bachelor of Science (Cum Laude), Chemical Engineering*

May 2019

GPA: 3.70

## RESEARCH AND INDUSTRY EXPERIENCE

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### University of Texas at Austin, McKetta Department of Chemical Engineering

10/2019 – present

*Graduate Student Researcher (Advisors: Prof. Delia J. Milliron and Thomas M. Truskett)*

- Investigating the structural and conductive properties of nanocrystal assemblies towards single-ion conducting electrolytes for lithium-ion batteries

### Edwards Lifesciences

6/2019 – 8/2019

*Critical Care Discovery, Engineering Intern*

- Developed experimental cardiac flow models to design and validate new medical device sensor technology

### University of California, Berkeley, Department of Chemical Engineering

1/2018 – 12/2018

*Undergraduate Student Researcher (Advisor: Prof. Wenjun Zhang)*

- Researched genetic tools for *Clostridium roseum*, with the goal of discovering new bioactive molecules

### Cuberg

5/2018 – 12/2018

*Battery Research and Development Intern*

- Researched the development of safer, high energy density lithium metal batteries
- Developed a protocol for pouch cell fabrication and investigated how different electrolyte components affect cycling performance at high voltages

### Merck

5/2017 – 8/2017

*Analytical Research and Development Intern*

- Developed a rapid pH and high temperature flow chemistry treatment method which enabled an easy, high throughput optimization of peptide stability conditions using HPLC and fluorescent fibrillation curves
- Work presented at the 5<sup>th</sup> Annual Peptides Congress in London and the 2017 Eastern Analytical Symposium and Exhibition

### Berkeley Advanced Manufacturing for Energy Lab

9/2016 – 5/2018

*Undergraduate Student Researcher (Advisors: Prof. Paul Wright and James Evans)*

- Researched rechargeable Zn-MnO<sub>2</sub> batteries using an ionic liquid gel polymer electrolyte and printed electrode inks
- Quantified the effect of drying parameters and electrolyte casting thickness and the effect of the active material to binder ratio on printed ink conductivity

### Tel Aviv University Center for Nanoscience and Nanotechnology

6/2016 – 8/2016

*Undergraduate Student Researcher (Advisor: Prof. Shachar Richter)*

- Researched the binding of neutral red dye to bovine serum albumin using fluorescence and HPLC measurements to assess the efficiency of the dye for use in organic light emitting diodes, specifically in the production of white light

## ACTIVITIES AND INVOLVEMENT

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### Engineering Student Council

8/2016 – 5/2019

- *Internal Vice President* (2017-18): Provided support and resources to all engineering clubs and planned events within the College of Engineering such as the Blue and Gold Engineering Leadership Dinner

### American Institute of Chemical Engineers

8/2016 – 5/2019

- *Social Chair* (2017-18): Coordinated events to create a closer community within Chemical Engineering at Cal