

RUTH EDISON

EDUCATION

B.S.A. Biology

Minor: English

University of Texas at Austin

Aug 2017 – May 2021

GPA 2.9025

CONTACT

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Austin TX, 78739

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AWARDS/HONORS

Undergraduate Research

Fellowship Grant Recipient | Fall
2018

INTERESTS

Video Content Creation

Literary Writing

RESEARCH EXPERIENCE

UNDERGRADUATE RESEARCH ASSISTANT

UNIVERSITY OF TEXAS AT AUSTIN | AUSTIN, TX | JANUARY 2018
– JANUARY 2020

Undergraduate research assistant for Dr. Charles Buddie Mullins:

- Investigated battery electrolytes for the lithium and sodium metal anodes.
- Constructed coin cell batteries.
- Analyzed electrochemical performances of coin cells.
- Studied the formation of 3D structures during the electrodeposition of alkali metals.
- Utilized a Keyence microscope for optical imaging.
- Trained other undergraduate research assistants and entry-level graduate students in laboratory research procedures.

TEACHING ASSISTANT

LIBERAL ARTS AND SCIENCE ACADEMY | AUSTIN, TX | AUGUST
2016 – JUNE 2017

Teaching assistant for Dr. Chin: Pre-AP and AP Chemistry.

PUBLICATIONS

SEPARATOR-FREE AND CONCENTRATED LiNO_3 ELECTROLYTE CELLS ENABLE UNIFORM LITHIUM ELECTRODEPOSITION

JOURNAL OF MATERIALS CHEMISTRY A – JANUARY 2020

Rodrigo Rodriguez, **Ruth A. Edison**, Ryan M. Stephens, Ho-Hyun Sun,
Adam Heller, and C. Buddie Mullins

ELECTRODEPOSITION OF THE NAK ALLOY WITH A LIQUID ORGANIC ELECTROLYTE

ACS APPLIED ENERGY MATERIALS – APRIL 2019

Rodrigo Rodriguez, **Ruth A. Edison**, Adam Heller, C. Buddie Mullins

EFFECT OF THE ELECTROLYTE ON THE CYCLING EFFICIENCY OF LITHIUM-LIMITED CELLS AND THEIR MORPHOLOGY STUDIED THROUGH IN SITU OPTICAL IMAGING

ACS APPLIED ENERGY MATERIALS – OCTOBER 2018

Rodrigo Rodriguez, Kathryn E. Loeffler, **Ruth A. Edison**, Ryan M.
Stephens, Andrei Dolocan, Adam Heller, and C.B. Mullins