

Andrew J. Hurst

CHEMICAL ENGINEERING UNDERGRADUATE STUDENT · YALE UNIVERSITY

302 York St., New Haven, CT, U.S.A.

☎ (+1)219-246-7882 · **Email:** andrew.hurst@yale.edu · **LinkedIn:** www.linkedin.com/in/andrew-hurst-87bb85130/

Education

Yale University

B.S. IN CHEMICAL ENGINEERING (ABET ACCREDITED)

- GPA: 3.43/4.00

New Haven, CT

Aug. 2014-May 2018

Chesterton High School

HONOR DIPLOMA

- Valedictorian

Chesterton, IN

Aug. 2010-Jun. 2014

Research Experience

Undergraduate Research, Yale University Department of Chemical and Environmental Engineering

New Haven, CT

INDEPENDENT RESEARCHER

June 2017-Present

- Studying a novel hydrophobic chemical treatment for natural fiber textiles.
- Currently working with Yale Office of Cooperative Research to gather more data on the treatment, as well as optimizing the conditions for treating fabric samples and devising methods to better deliver the treatment to fabric sheets.
- Investigating hydrophobic toluene-functionalized copper oxide nanosheets for the catalytic electroreduction of carbon dioxide for use in carbon-capture systems.
- Mentors: Lisa Pfefferle, Zachary Fishman, Yulian He, Matthew Montgomery

Skills

Laboratory Infrared spectroscopy, UV/Vis spectroscopy, Contact angle measurement, Isolation of organic compounds, Organic synthesis, Thin layer chromatography, Cyclic voltammetry

Computer Java, JQuery, HTML, CSS, Matlab, Mathematica, Service Now, Aspen HYSIS

Language Fluent Japanese

Additional Experience

Yale University Information Technology Services

New Haven, CT

RESIDENTIAL COLLEGE COORDINATOR AND TRAINING COORDINATOR

December 2016-January 2018

- Lenovo and Dell-certified computer hardware specialist repairing Yale community members' computers. Around 15 hours of work on around 20 incidents (hardware, software, and network-related) per week.
- Distributed and kept track of the service incidents for all 498 Morse college students while overseeing the training of 67 newly-hired student techs in 2017.

Yale Summer Session

New Haven, CT

SENIOR COUNSELOR

May 2017-August 2017

- Managed a team of six residential counselors acting as a resource for Yale Summer Session students.
- Helped international and pre-college students navigate the rigor of college coursework and dorm life while taking courses concurrently.

Yale Men's Water Polo

New Haven, CT

WATER POLO ATHLETE

September 2014-Present

- Played water polo representing Yale in the New England Division of the College Water Polo Association.

Yale Surf Team

New Haven, CT

PRESIDENT

October 2014-Present

- Helped Yale's small surfing community grow by organizing around 20 surf outings per semester to Rhode Island surf breaks and securing funding for members' gear expenses.

Richard U. Light Fellowship

New Haven, CT

RECIPIENT

May 2015-August 2015

- Fully-funded Japanese-language study abroad at Hokkaido International Foundation in Japan.
- Set up Diamond Ramp, a surf shop in Hakodate, Hokkaido, as a wholesale distributor for American skate goods manufacturer ABEC11.
- Worked as a translator for a local morning fish market serving tourists.