

Undergraduates Seeking Internships

JULIA ZOU

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EDUCATION

*New Haven, CT:
Class of 2019*

Yale University

Bachelors of Science: Mechanical Engineering (ABET)
Coursework: Multivariable Calculus, Organic Chemistry, Linear Algebra, Introductory Data Analysis, Computing for Engineers, University Physics, Introduction to Electronics, Statics and Mechanics of Materials, Thermodynamics

*Edison, NJ:
Class of 2015*

John P. Stevens High School

Weighted GPA: 5.80/6.0; Un-weighted GPA: 4.12/4.0
Varsity Tennis, Captain of Science Olympiad Team, School Newspaper Business Manager, Wind Ensemble Principal Bass Clarinet, National Honors Society, Founder of Project Sunshine Chapter

EXPERIENCE

*New Haven, CT:
May 2016-present*

Yale School of Public Health Research Assistant

Research the cost effectiveness of the Meningococcal Vaccination in developing countries
Process patient data to inform model parameters and calibration targets by writing sorting scripts in R Studio software to organize and analyze large amounts of data

*New Haven, CT:
Jan 2016- present*

Yale Student Technology Collaborative Student Technician

Assess and provide tech support for students and staff
Perform hardware and software repair for personal computers

*New York, NY:
June 2014- Aug 2014*

Rockefeller University Student Summer Research Intern Kruger Lab of Dermatology

Created a programs to facilitate melanoma diagnosis by mapping out blood volume and oxygen saturation over an affected area of skin.
Utilized CAD software to design parts for probe that measures the skin's light absorbance

*Edison, NJ:
Sept 2013- June 2015*

Waksman Student Scholars Program Student Researcher

Use PCR, agarose gel electrophoresis techniques, and a DNA Sequence Analysis Program to evaluate DNA Sequence Data of *Landoltia punctata* (duckweed)

ACTIVITIES

*New Haven, CT:
Aug 2016- present*

Yale Aerospace Hybrid Rocket Team Member

Design, construct, and launch a hybrid-engine rocket including the motor and body
Use Solidworks and CAD software to develop rocket parts

*New Haven, CT:
Sept 2015- present*

Engineers Without Borders- Recruitment Lead

Developed a spring catchment that brings clean drinking water to residents in Roh, Cameroon

*New York, NY:
Sept 2012- May 2015*

Columbia University Science Honors Program

Relevant Coursework: Nano: From Science to Technology, Paradoxes in Physics, Graph Theory

HONORS & AWARDS

National Merit Finalist (2015)
Chinese Institute of Engineers- GNYC Chapter Scholarship Recipient (2015)
New Jersey Physics Olympics- first place team (2014, 2015)
American Invitational Mathematics Examination qualifier (2013, 2014)
Science Olympiad: Water Quality – 1st Place at Union County College Regionals

ADDITIONAL

Skills

Computer Skills: C, HTML, PHP, Javascript, MATLAB, R, Adobe InDesign, Adobe Illustrator, Microsoft Excel, Bridge and vjoon K4 Publishing Platform
Languages: Fluent in Mandarin, Proficient in French

Additional Activities

Graphic Design for Yale Daily News, *The Politic*, Yale Banner; Chinese American Student Association Social Chair; Yale Camp Kesem Outreach Coordinator; Yale Ballroom Dance Team