

Katy Felkner

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EDUCATION

University of Oklahoma | Norman, OK

B.S. in Computer Science, B.A. in Letters | May 2020

Minor: Mathematics | GPA: 4.00/4.00

WORK EXPERIENCE

OU Department of Classics and Letters — Undergraduate Research Assistant JANUARY 2017 - PRESENT

Assist in the creation of a searchable online database of Latin texts. Write scripts in Python to parse HTML documents containing Latin prose and poetry and encode critical data about texts in XML, reducing time to encode by a factor of 400. Presented at National Conference on Undergraduate Research (April 2018), Classical Association of the Midwest and South (April 2018), Society for Classical Studies (January 2019). Only undergraduate student invited to attend the National Endowment for the Humanities Institute for Advanced Topics in Digital Humanities at Tufts University (July 2018).

OU IDEA Lab — Honors Research Assistant DECEMBER 2018 - PRESENT

Develop and test a task for drone programming competitions to familiarize high school students with computer vision technology.

OU Athletic Department, Norman, OK — Math Tutor AUGUST 2016 – MAY 2017

Tutored college algebra, precalculus, and business calculus. Met weekly or biweekly with 10 students to reinforce concepts taught in class, answer questions, work extra problems, and help them prepare for exams.

TECHNICAL SKILLS

Python	C	C++	Java	JavaScript	Unix/Linux administration
XML	HTML	CSS	R	SQL	LaTeX

CAMPUS LEADERSHIP

Alpha Sigma Kappa - Women in Technical Studies — Vice President DECEMBER 2017 - PRESENT

Plan and execute nine recruitment events per semester, coordinate chapter ceremonies for 60+ members, oversee chapter social and new member education programs. Directly oversee 9 officers on 5 committees.

Out in Science, Technology, Engineering, and Math — Secretary MARCH 2017 - PRESENT

Facilitate communication between members of the oSTEM executive board and send biweekly email newsletters and event announcements to members. Work on a team to plan and execute about two medium-scale events per month.

Crimson Club — New Member APRIL 2018 – PRESENT

Serve as a student ambassador for the Office of the President. Learn about the history and traditions of the University in detail. Host dignitaries and guests of the Office of the President.

Undergraduate Student Congress — Engineering Representative APRIL 2018 – PRESENT

Represent the College of Engineering in Student Government Association. Serve on Congressional Administration committee.

Halliburton Women's Welcome — Lead Mentor AUGUST 2017, **Program Committee** AUGUST 2018

Planned and executed a weeklong program for 66 incoming female students in engineering. Coordinated a professional dress workshop and campus resource fair. As a lead mentor, served as a mentor to a small group of eight incoming female engineers.

Independent Greek Council — Vice President of Administrative Affairs DECEMBER 2016 – DECEMBER 2017

Coordinated communication between the executive board and ten member organizations through weekly emails and meeting minutes.

COMMUNITY INVOLVEMENT

Oklahoma Senior Classical League — President MARCH 2017 – APRIL 2018, **Treasurer** APRIL 2018 – PRESENT

Plan executive and general meetings and social events, serve as a liaison between Oklahoma Senior Classical League and Oklahoma Junior Classical League, serve the members of the JCL by coordinating SCL volunteering at JCL events.

Boren Mentoring Initiative — Mentor OCTOBER 2018 – PRESENT

Meet weekly with an at-risk middle school student. Communicate effectively with her teachers to ensure mentoring is going well.

Engineers Serving Others — Project Leader SEPTEMBER 2017 – DECEMBER 2017

Led a team of five people to research, select, and set up a new volunteer management system for Meals on Wheels Norman.

HONORS AND AWARDS

Rita H. Lottinville Prize
Engineering Diversity and Inclusion Scholar
Women in Engineering Outstanding Sophomore
Holmes Leadership Associate
University College PACE Award
Phi Kappa Phi Honor Society
Eta Sigma Phi (National Classics Honor Society)
Oklahoma Foundation for Excellence Academic All-Stater

President's Award for Outstanding Sophomores
Mary Enod Williams Classics and Letters Scholarship
Women in Engineering Impact in Engineering Award
Honors Physics term paper published in THURJ
Myrna L. Carney Award
Tau Beta Pi (National Engineering Honor Society)
National Merit Scholar
US Presidential Scholars Semifinalist