

MIKAYLE HOLM

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EDUCATION

UNIVERSITY OF MINNESOTA, Minneapolis, MN

- Aug. 2016 – Present
- PhD Student in Biomedical Engineering, Visible Heart Lab
- College of Science and Engineering

ARIZONA STATE UNIVERSITY, Tempe, AZ

- Aug. 2012 – May 2016
- BSE in Biomedical Engineering, Mathematics minor
- Ira A. Fulton Schools of Engineering and Barrett, the Honors College
- GPA 4.00, Deans' List (2012-2016)

EMPLOYMENT

LAB MANAGER AT ARIZONA STATE UNIVERSITY, Tempe, AZ

- Jan. 2014 – May 2016
- Coordinated experiments to better understand mechanisms of childhood obesity and adult onset diabetes.
- Organize undergraduates, schedule and attend lab meetings, review literature, track inventory, work with principal investigator to design future studies and key results.
- Independent project funded by Fulton Undergraduate Research Initiative studying the effects of norepinephrine on brown adipose tissue. (Jan.-May 2016)

TUTOR AT THE ENGINEERING TUTORING CENTER AT ASU, Tempe, AZ

- Oct. 2013 – May 2016
- Adapted to different learning styles while teaching students to solve homework problems and to study for engineering classes.
- Lead review study sessions for classes with challenging course material.

INTERN FOR NSF REU, Urbana-Champaign, IL

- May 2015 – Jul. 2015
- Worked closely with graduate students and principal investigator to run experiments.
- Skills included cell culturing, gel electrophoresis, microscopy, image analysis with ImageJ.
- Presented 'Compact Quantum Dots (QDs) and Fluorescence *in situ* hybridization (FISH) for gene expression analysis' at Illinois Summer Research Symposium. (Jul. 2015)
- Composed abstract and poster for the Biomedical Engineering Society conference. (Oct. 2015)

EXPERIENCE

STATISTICAL ANALYSIS ASSISTANT AT ASU, Tempe, AZ

- Aug. 2013 – Jun. 2016
- Determine measurement techniques for student achievement, attitude, and persistence.
- Score concept maps and analyze survey results to assess engagement.
- Honors thesis: 'An Analysis of Concept Maps in Engineering Education.' (Aug. 2015-May 2016) funded by Barrett, the Honors College at ASU
- Presented at the American Society of Engineering Education annual meeting (Jun. 2016)
- Attended the Society of Hospital Medicine annual meeting (Mar. 2016)
- Gore Funding Grant and Fulton Undergraduate Research Travel Grant Recipient (Dec. 2015)

PROJECT MANAGER FOR CAPSTONE SENIOR DESIGN PROJECT

- March 2015 – Aug. 2016
- *SlipSensed*, A flooring system that decreases emergency response time after a fall.
- Produced a winning team for the eSeed Accelerator \$6,000 Pitch Competition (Nov. 2015)

AWARDS

NSF GRFP Honorable Mention (Jan. 2016)
Moeur Award (Apr. 2016)
Regent's High Honors Scholar
Pitchfork Award (Apr. 2014)
Joe Selleh Award (Jan. 2012)

Distinguished Service Award (Apr. 2016)
Alumni Chapter Award (Mar. 2016)
Summa Cum Laude
National Honor Society Service Award (May 2012)
Scholar Athlete of the Year (May 2012)