

# JIAYAO (AMY) LI, EIT

3706 Oldenburg Ln • College Station, TX, 77845 • 979-571-0833 • amyjiayao@gmail.com • <https://amyjiayao.github.io/>

---

## EDUCATION

**Texas A&M University, Dwight Look College of Engineering**, College Station, TX      Graduation: Aug. 2018  
Study Abroad: Singapore (*Dec. 2017 – Jan. 2018*); Japan (*May 2018 – Present*)      Cumulative GPR: 3.63  
B.S. Double Major in Computer Science & Mechanical Engineering; Minors: Cybersecurity & Mathematics  
Certificates: Business Management; Data Center Operations; Engineering Honors; International Engineering

## RELATED SKILLS & COURSES

Fluent in Mandarin Chinese and English; C/C#/C++, Haskell, HTML, Java, Ruby on Rails; Algorithms & Data Structure, Computer-Human Interaction, Cyber Security, Machine Learning, Risk Assessments; AutoCAD, Inventor, SolidWorks

## WORK EXPERIENCE & PROJECTS

### Undergraduate Research, Texas A&M University

**Department of Computer Science & Engineering, Sketch Recognition Lab**      Jan. 2017 – Present

- Develop machine learning algorithms to detect gaze gestures using eye-tracking; analyze accuracy and timing
- Implement machine learning algorithms: decision tree, neural network, Pearson correlation, template matching

**Department of Mechanical Engineering, Bio-robotics Lab**      Jan. 2017 – Aug. 2017

- Coded program to analyze computer vision and build prototype to model robotic device

### Walt Disney World Parks and Resorts, Design & Engineering, Lake Buena Vista, Florida

**Simulation & Analysis, Professional Engineering Intern**      May 2016 – Aug. 2016

- Coded and debugged software programs to perform data analysis and simulation modeling

**Architecture & Facilities Engineering, Professional Engineering Intern**      Jan. 2016 – May 2016

- Helped to design and draft engineering drawings for Star Wars: A Galactic Spectacular Fireworks show

### BP, Senior Capstone Design Project, Texas A&M University

Fall 2017, Spring 2018

- Designed system to apply specialized coatings to protect metals from corrosion for offshore oil & gas platforms

### Industrial Assessment Center, Texas A&M University

June 2015 – Dec. 2015

*Student Technician*

- Conducted audits and analyzed various manufacturing processes to deliver reports on energy saving measures

### Department of Mechanical Engineering, Texas A&M University

*Teaching Assistant, Peer Tutor, Grader in MEEN 210, 221, 381, 460*

Fall 2015, Fall 2016 – Spring 2018

*Student Ambassador, Peer Advisor*

Apr. 2015 – Dec. 2015

## LEADERSHIP & VOLUNTEER ACTIVITIES

### Chi Alpha Christian Fellowship, Texas A&M University

Sept. 2016 – May 2018

*Bible Study Leader (Fall 2017, Spring 2018)*

### Grace Bible Church, College Station, Texas

May 2017 – May 2018

*Sunday School Teacher*

### Memorial Student Center Bethancourt, Texas A&M University

Fall 2015, Jan. 2017 – May 2018

*Internal Development Director (Fall 2017, Spring 2018)*

- Engaged in cross-discipline and hands-on learning experiences through professional development programs

### Give Kids the World Village, Orlando, Florida

Jan. 2016 – Aug. 2016

*Volunteer* – Provided service to children with life-threatening illness and their families

### Fish Camp, Texas A&M University

Mar. 2015 – Oct. 2015

*Counselor* – Cooperated with 25 other counselors to mentor over 150 freshmen to help them transition to college

### Aggies Reaching Out, Texas A&M University

May 2015

*Counselor* – Mentored groups of 7-10 underrepresented 8<sup>th</sup> graders in order to inspire them to pursue higher education

### Memorial Student Center LEAD, Texas A&M University

Sept. 2014 – May 2015

*Spencer Leadership Conference Committee*

### Aggies Invent, Engineering Innovation Center, Texas A&M University

Aug. 2014

*1<sup>st</sup> Place in competition against 7 teams*