

# ANDY CHEN



2315 West Alamo Drive, Chandler, AZ 85224



+1 (480) 278 5596



chen.andy14@gmail.com



www.linkedin.com/in/achen87



andyzfchen.github.io

## EDUCATION

**University of Michigan, Ann Arbor**

**Ann Arbor, MI**

Ph. D. Candidate in Physics

2018 — Present

**Georgia Institute of Technology**

**Atlanta, GA**

B. Sc. in Physics *summa cum laude*

2014 — 2018

Minor in Mathematics and Music Performance

## EXPERIENCE

**SLAC National Accelerator Laboratory**

**Menlo Park, CA**

*Internship, Dr. Jeff Corbett — TCSPC for Electron Bunch Measurement*

Jun 2017 — Aug 2017

- Designed MATLAB scripts to collect and send TCSPC data from PicoHarp 300
- Implemented methods to reduce instrumentational error in TCSPC data
- Developed EPICS panel for monitoring and maintaining SPEAR3 electron beam
- Presented research results during a seminar and in a technical report

**Lawrence Livermore National Laboratory**

**Livermore, CA**

*Internship, Dr. Philip C. Myint — Thermodynamic Modeling of Energetic Materials*

May 2016 — Aug 2016

- Extended Peng-Robinson Equation of State to various energetic materials
- Designed Fortran and Python scripts to develop pure and binary mixture models
- Collected data from published literature to validate model predictions
- Presented research progress during a department seminar and poster symposium

## SKILLS

*Platforms and Software:*

UNIX

Git

Adobe CS5

EPICS

Linux

Microsoft Office Suite

*Programming Languages and Techniques:*

Python

L<sup>A</sup>T<sub>E</sub>X

Monte Carlo Methods

MATLAB

Java

Parallelization

C++

JavaScript

Fortran

HTML

*Linguistic Languages:*

English

Native Proficiency

Mandarin Chinese

Minimum Professional Proficiency

French

Elementary Proficiency

Korean

Elementary Proficiency

## VOLUNTEER ACTIVITIES

**Georgia Tech China Care Club**

**Atlanta, GA**

*Treasurer*

May 2017 — May 2018

- Documented the expenditures and managed the budget for all club activities
- Crafted and submitted bills and grant proposals to various funding groups
- Oversaw responsibilities and needs of Fundraising Coordinator and Social Chair

**Georgia Tech Yellow Jacket Archery Club**

**Atlanta, GA**

*Secretary*

May 2015 — May 2016

- Managed membership, minutes and records, attendance, and announcements
- Organized club social, recruitment, and advertising initiatives
- Provided coaching and instruction as a Level 2 NTS certified instructor

## SCHOLARSHIPS AND AWARDS

**Hitohiro Fukuyo Physics Scholarship (2018)**

**President's Undergraduate Research Award (2015)**