

# ANDY CHEN

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## EDUCATION

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**Georgia Institute of Technology** — Atlanta, GA

Expected Graduation: May 2018

B.Sc. Candidate: Physics

Major GPA: 3.92

Minor Candidate: Mathematics, Music Performance (Percussion)

## EXPERIENCE

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**SLAC National Accelerator Laboratory**

May 2016 — August 2016

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

- Designed MATLAB scripts to collect and send TCSPC data from PicoHarp 300
- Implemented methods to reduce instrumental 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**

May 2016 — August 2016

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

- Fitted parameters of Peng-Robinson Equation of State to various energetic materials
- Designed computer programs to develop pure component and binary mixture models
- Collected predicted and experimental data from published literature to validate model predictions
- Presented research progress in a report, during a seminar, and at the lab-wide Summer Poster Symposium

**Parker H. Petit Institute for Bioengineering and Bioscience**

January 2015 — December 2015

*Undergraduate Research, Dr. Mark R. Prausnitz — Ionic Liquids for Drug Delivery — Atlanta, GA*

- Synthesized ionic liquids that incorporate active pharmaceutical ingredients
- Prepared apparatuses to measure skin permeability of ionic liquids and their aqueous alternatives
- Performed independent research on antifungal drugs as ionic liquids project
- Presented research findings at American Institute of Chemical Engineers 2015 Annual Student Conference Undergraduate Student Poster Competition

## VOLUNTEER ACTIVITIES

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**Georgia Tech Yellow Jacket Archery Club**

*Secretary*

May 2015 — May 2016

- Managed membership, minutes and records, attendance, and public announcements
- Organized club social, recruitment, and advertising initiatives
- Facilitated efficient communication between officers and club members
- Monitored practice sessions as range safety officer and provided coaching as certified instructor

**Georgia Tech China Care Club**

*Co-Fundraising Coordinator*

January 2015 — May 2015, May 2016 — Present

- Coordinated fundraising events that sponsor orphaned children from One Sky Foundation
- Aided Treasurer in applying for funding from Georgia Tech's Student Government Association
- Organized events and communicated with other committee members to maintain fluidity of activities

*Historian*

May 2015 — May 2016

- Kept records of club events and activities on social media to spread club awareness in Atlanta community

## SKILLS

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*Software and Platforms:*

Adobe CS5, ASPEN Plus; UNIX, Linux, Eclipse IDE

*Programming and Linguistic Languages:*

L<sup>A</sup>T<sub>E</sub>X, Python, MATLAB, Fortran, C++, Java, JavaScript, HTML; Mandarin Chinese

*Lab Techniques and Instrumentation:*

Fractional Distillation, Recrystallization, PCR Synthesis, Agarose Gel Electrophoresis, Protein Blotting; Proton NMR, Column Chromatography, IR Spectroscopy, Viscometry, HP Liquid Chromatography

## HONORS AND AWARDS

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

Competitive awards that fund undergraduate students conducting research with a Georgia Tech faculty member or Georgia Tech Research Institute scientist.