

ANDY CHEN

U.S. Citizen

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EDUCATION

Georgia Institute of Technology

Atlanta, GA

GPA: 3.79 • Expected Graduation: May 2018

B. Sc. Candidate: Physics

Minor Candidate: Music Performance • Mathematics

Relevant Coursework:

Classical Mechanics, Electro & Magnetostatics, Thermodynamics, Quantum Mechanics, Radiation Physics, Complex Analysis, Numerical Methods, Organic Chemistry, Transport Processes and Fluid Mechanics

PROFESSIONAL EXPERIENCE

Lawrence Livermore National Laboratory

Livermore, CA

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

May 2016 — August 2016

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

Reference: Philip C. Myint +1 (925) 423 9296 • myint1@llnl.gov

Parker H. Petit Institute for Bioengineering and Bioscience Atlanta, GA

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

January 2015 — December 2015

- Synthesized ionic liquids that incorporate active pharmaceutical ingredients
- Prepared experiments to measure properties of ionic liquids and their 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

Reference: Wilmarie M. Ramos +1 (678) 353 7300 • wilmarie.medina@gatech.edu

VOLUNTEER ACTIVITIES

Georgia Tech Yellow Jacket Archery Club

Atlanta, GA

Historian

May 2016 — Present

- Maintained records of shooting scores and progress of club members

Secretary

May 2015 — May 2016

- Managed membership, minutes and records, attendance, and announcements
- Organized club social, recruitment, and advertising initiatives
- Facilitated efficient communication between officers and club members
- Monitored practice sessions as range safety officer
- Provided coaching and instruction as a Level 2 NTS certified instructor

Georgia Tech China Care Club

Atlanta, GA

Co-Fundraising Coordinator

January 2015 — May 2015, May 2016 — Present

- Coordinated fundraisers that sponsor orphaned children from One Sky Foundation
- Aided Treasurer in applying for funding from the 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

Software and Platforms:

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

Programming Languages:

L^AT_EX, Python, MATLAB, Fortran 90 and 77, C, Java, JavaScript, HTML

Linguistic Languages:

English - Native Proficiency, Mandarin Chinese - Minimum Professional Proficiency, French - Elementary Proficiency

Lab Techniques:

Fractional Distillation, Recrystallization, PCR Synthesis, Electrophoresis, Protein Blotting

Instrumentation:

Proton NMR, Column Chromatography, IR Spectroscopy, Viscometry, HP Liquid Chromatography

FELLOWSHIPS AND AWARDS

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.

Phoenix Youth Symphony Young Musician's Competition Scholarship (2014)

Music Camp Scholarships offered to first and second place recipients of each instrument division of the Concerto Competition.

PUBLICATIONS

Origanum vulgare subsp. *hirtum* glyceraldehyde-3-phosphate dehydro-genase-like (GAPC) gene, partial sequence, with T.T. Huynh, A. Majumdar, B.V. Musheno. National Center for Biotechnology Information GenBank Nucleotide Database. 2013.