

# ANDY CHEN

330426 Georgia Tech Station | Atlanta, GA 30332 | (480) 278-5596  
[achen87@gatech.edu](mailto:achen87@gatech.edu)

## EDUCATION

Georgia Institute of Technology – Atlanta, GA August 2014 – Present  
*Chemical and Biomolecular Engineering*, Bachelor of Science Candidate  
*Nuclear and Radiological Engineering*, Minor Candidate Projected Graduation: May 2018  
*Music Performance*, Minor Candidate GPA: 3.82

- ❖ Georgia Tech Faculty Honors (Summer 2015 – Present)
- ❖ Georgia Tech Dean's List (Fall 2014 – Spring 2015)

Courses: Thermodynamics, Numerical Methods, Transport Processes, Organic Chemistry, Kinetics and Reactor Design, Separation Processes, Radiation Physics

## SKILLS

- ❖ NMR Spectroscopy, High Performance Liquid Chromatography, Viscometry
- ❖ PCR Synthesis, Agarose Gel Electrophoresis, Blotting
- ❖ Microsoft Office Suite, Adobe Photoshop, ASPEN+, Java, JavaScript, Python, MATLAB, HTML
- ❖ Fluent in Mandarin Chinese, Basic French, Open Water Scuba Diving

## PROFESSIONAL EXPERIENCE

Parker H. Petit Institute for Bioengineering and Bioscience – Atlanta, GA January 2015 – Present  
*Undergraduate Research*, Dr. Mark Prausnitz

- ❖ Synthesized ionic liquids that incorporate active components of pharmaceutical drugs
- ❖ Prepared apparatuses to measure skin permeability of ionic liquids and their aqueous alternatives
- ❖ Analyzed experimental data with statistical methods
- ❖ Conducted *in vivo* experiments to test efficacy and safety for pharmaceutical applications
- ❖ Received President's Undergraduate Research Award to fund Synthesis and Topical Drug Delivery of Ionic Liquids: Terbinafine and Other Antifungal Drugs Project

Desert Vista Biotechnology Lab – Phoenix, AZ January 2013 – May 2013  
*Internship*, Birgit Musheno

- ❖ Published a partial GAPC gene sequence of *Origanum vulgare* on GenBank database
- ❖ Trained in FinchTV, biotechnology equipment, plasmid manipulation, and cell cultivation
- ❖ Performed research on nucleotide analysis to produce accurate gene sequences
- ❖ Certified in Bioscience Completion by Arizona Skill Standards Commission

## LEADERSHIP EXPERIENCE

Georgia Tech Yellow Jacket Archery Club – Atlanta, GA April 2015 – Present  
*Secretary*

- ❖ Managed membership, minutes and record, attendance, and public announcements
- ❖ Organized club social, recruitment, and advertising initiatives
- ❖ Facilitated efficient communication between officers and club members

Georgia Tech China Care Club – Atlanta, GA January 2015 – April 2015  
*Co-Fundraising Coordinator, Historian*

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

## HONORS AND ACTIVITIES

Georgia Tech Chinese Student Association 2015 – Present  
American Institute of Chemical Engineers 2014 – Present  
Georgia Tech Table Tennis Association 2014 – Present  
US National Chemistry Olympiad 2014  
Placed 1<sup>st</sup> in Phoenix Youth Symphony Young Musicians Concerto Competition 2014  
Senior Brass/Percussion Division  
Marching Band ABODA Division 1 State Champions 2010 – 2013