

# ANDY CHEN

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## OBJECTIVE

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Seeking an Internship in the field of Chemical and Biomolecular Engineering for Summer 2016

## EDUCATION

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**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, Transport Processes, Organic Chemistry

## SKILLS

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*Instrumentation:* NMR Spectroscopy, High Performance Liquid Chromatography, Viscometry  
*Lab Skills:* PCR Synthesis, Agarose Gel Electrophoresis, Blotting, PADI Open Water Scuba Diving  
*Languages:* Mandarin Chinese, Basic French, Java, JavaScript, Python, MATLAB, HTML  
*Software:* Microsoft Office Suite, Adobe Photoshop, ASPEN Plus

## PROFESSIONAL EXPERIENCE

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

## LEADERSHIP EXPERIENCE

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**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 – Present  
*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

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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