**Andy Chen**

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[achen87@gatech.edu](mailto:achen87@gatech.edu)

**Education**

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

August 2014 – Present

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| *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, Classical Mechanics, Electricity & Magnetism

**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

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| **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

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| **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 |
| AIChE Annual Student Conference Poster Session | 2015 |
| US National Chemistry Olympiad | 2014 |
| Placed 1st in Phoenix Youth Symphony Young Musicians Concerto Competition Senior Brass/Percussion Division | 2014 |
| Marching Band ABODA Division 1 State Champions | 2010 – 2013 |