

# Catherine W. Liu

---

375 Stedford Lane, Johns Creek, GA 30097  
cliu432@gatech.edu  
(404) 960-4404  
www.linkedin.com/in/catherine-l-28042ba5

## EDUCATION

---

### Georgia Institute of Technology

Atlanta, Georgia

- Bachelor of Science in Computer Science
- Minor in Chemistry
- GPA: 4.00/4.00

*Expected Graduation: May 2020*

## TECHNICAL SKILLS AND INTERESTS

---

**Programming:** Python, Java, HTML, CSS, JavaScript, Android Studio, Command Prompt, JUnit Tests, SQLite, Firebase

**Computer:** GitHub, ZenHub, Microsoft Excel, Microsoft PowerPoint, Microsoft Word

**Languages:** English – native, Chinese – fluent, French – basic

**Affiliations:** American Medical Student Association, Stamps Health Services Ambassador, Student Alumni Association, KNIT Mentorship, Chinese Student Association

## WORK EXPERIENCE

---

### Introduction to Computing (Python) Teaching Assistant

Atlanta, Georgia

*Teaching Assistant*

*May 2017 – Present*

- Prepare lesson material for weekly recitations to enhance student understanding of material
- Hold weekly office hours to assist students with both conceptual and homework questions
- Write and grade exams and homework in a timely manner

## PROJECTS

---

### Android Application for Tracking Rodent Activity

Atlanta, Georgia

*Team Member*

*August 2017 – December 2017*

- Created application that allows users to track, report, and view data on rat sightings
- Utilized SQLite to create database for keeping track of user and rat sighting information
- Facilitated teamwork among members by assigning tasks and scheduling meetings
- Planned project using user stories, domain modeling, and ZenHub

### Android Application for Printer Functionality on Campus

Atlanta, Georgia

*Team Member*

*October 2017*

- Backed up printer data and user login information using Firebase
- Utilized Google Maps API to display printers to users
- Develop friendly user interface using layout editor

## RESEARCH

---

### Psychology Undergraduate Research Assistant: Work, Motivation, and Emotion Lab

Atlanta, Georgia

*Undergraduate Researcher*

*August 2017 – Present*

- Investigating the geographic mobility of college students directly after graduation
- Assisting with analysis of interventions that affect motivation and self-control
- Manipulating and reorganizing large CSV file data using Python
- Analyzed census reports using Microsoft Excel to understand current migration patterns

### Chemistry Undergraduate Research Assistant: Peralta-Yahya Lab

Atlanta, Georgia

*Undergraduate Researcher*

*May 2017 - August 2017*

- Incubated and completed mini-prep protocols for E. coli to test for mutations
- Prepared and ran Gibson and PCR reactions to separate DNA fragments for reproduction
- Analyzed gels following gel electrophoresis

# Catherine W. Liu

---

375 Stedford Lane, Johns Creek, GA 30097  
cliu432@gatech.edu  
(404) 960-4404  
[www.linkedin.com/in/catherine-l-28042ba5](http://www.linkedin.com/in/catherine-l-28042ba5)

## LEADERSHIP

---

### **Grady Memorial Hospital Volunteer** *Volunteer*

**Atlanta, Georgia**  
*May 2013 – Present*

- Assist doctors and nurses with their duties in the GI, Cancer, Radiology, and Oral Surgery departments
- Aid patients with filling out paperwork and government information forms such as food stamp applications
- Presented public health information to patients and their families in the Cancer Resource Center
- Over 230 volunteer hours recorded

### **GT1000 Pre-Health Section Team Leader** *Team Leader*

**Atlanta, Georgia**  
*August 2017 – Present*

- Planned classes and presentations to help students understand different medical fields
- Advised first-year students interested in pursuing the pre-health track
- Led a group of six students to help them prepare and present a presentation