# Natalie Wilkinson

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## EDUCATION

**Georgia Institute of Technology**                                                                                    Aug. 2016 - Dec. 2019
GPA: 3.70
Candidate for Bachelor of Science in Chemistry
Honors Program • Dean's List • Faculty Honors

## EMPLOYMENT

**Amgen Scholars Program, UC Berkeley College of Chemistry**
*Research Assistant under in John Hartwig's Lab*, Berkeley, CA                                        May 2018 - Aug. 2018
- Investigated an enantioselective iridium-catalyzed allylic substitution reaction of fluorinated electrophiles that yield synthetically-versatile chiral fluorinated building blocks.

**Georgia Tech Department of Chemistry and Biochemistry**
*Undergraduate Research Assistant under the direction of Jake Soper*, Atlanta, GA                    May 2016 - Dec. 2018
- Investigating direct fluorination reactions of organozirconocene reagents to produce vinyl fluorides.
- Investigating the optimal conditions for the reactions of silyl enol ethers with a radical CF3 source in the presence of a Co(II) catalyst to produce $\alpha$-trifluoromethylated ketones.

## PROJECTS

**My Angel Sight**                                                                                                         Feb. 2019
Technology that helps drivers become aware of their distracted driving and incentives attentive driving. The program  tracks a drivers movements and determine if they are a distracted or not. Face tracking was done using the OpenCV library and a convolutional neural network to detect when drivers are looking at the road versus distracted. This was also made using Google Cloud Functions, Google MySQL Database, and integrates with a banking API (TSYS API) to keep track of user rewards. **Awarded 1st place in the Experienced Hack Category at HackAuburn and winner of TSYS sponsor prize.**
Website: myangelsight.com

**Rain Alert**                                                                                                             Jan. 2019
Work In Progress: Application that notifies users by text when there is inclement weather. Built with python, Twilio, OpenWeatherMap API, Heroku PostgresSQL and hosted on Heroku.  Website: https://rain-alert-frontend.herokuapp.com/

**Social Media Analysis**                                                                                                   Nov. 2018
Used a cosmetics company API and tracked how promotional social media posts helped to build social media presence. In addition, analyzed how the volume of posts changes at certain times of year.

**Car Attributes Analysis**                                                                                                 Sept. 2018
Analyzed dataset to determine how car price is correlated with horsepower, how car mileage differs across different brands, and how many engines most cars have.

## ACTIVITIES

**Georgia Tech Chemistry Department**, *Lab and Recitation Teaching Assistant*                           Aug. 2017 - Dec. 2018
Freshman Chemistry Program CHEM 1310 TA
Chemistry and Biochemistry CHEM 2214 TA
- Facilitated weekly laboratory and recitation classes for first year chemistry students.
- Guided weekly pre-lab discussions to introduce students to laboratory class topics and led collaborative (group work oriented) environments for recitation classes and office hours.

**Georgia Tech Undergraduate Research Ambassador**, *Vice President of Internal Affairs*                 Aug. 2018 - Present
- Manage volunteering of all members, budget for events, facilitate organization of for events
- Aim to help other Georgia Tech undergrad students find research opportunities and maintain healthy and productive research experiences