

# BRYENT KYLOON LEE

GA -30309 | 404-345-8833 | blee408@gatech.edu | www.linkedin.com/in/bryentlee | www.bryentlee.com

---

## EDUCATION

### B.S. Chemical & Biomolecular Engineering (Biotechnology) | Georgia Institute of Technology

December 2020

- Current GPA: 3.58
- Related Coursework: Capstone Design, Process Control, Kinetics and Reactor Design, Separation Processes, Thermodynamics, Transport Phenomenon, Data Analytics, Differential Equation, Biochemistry, Organic Chemistry, Safety

---

## HONORS

- Faculty Honors Recipient (4.0/4.0 GPA, 16 credit hours) at Georgia Tech, Fall 2018
- Recipient of EDGE Award Scholarship for top 10% academic achievers nationally in Malaysia

---

## EXPERIENCES

### Research Assistant | Dr Cheung's Lab at Georgia Institute of Technology

January 2019 – December 2019

- Conducted +10 YFP-containing plasmid transformations and integrated +10 plasmid containing Lex-A binding protein, estrogen receptor (ER), and VP16 domain into the *S. cerevisiae*
- Measured the fluorescence response in a microplate spectrophotometer and observed the growth phenotype of the transformants of the arsenic reporter to arsenic
- Performed Polymerase Chain Reaction (PCR) to multiply the Lex-A binding sites in the plasmid to maximize the responses

### Manager | Guest Services, Student Center at Georgia Institute of Technology

May 2019 – Present

- Communicate extensively with guests, including audio/visual support and events setup alterations for up to 50-persons
- Accomplish daily operations by setting-up and breaking down +500 tables, chairs, stages A/V equipment for campus events
- Acquired return offer for Fall semester due to recognized work ethic

---

## LEADERSHIP

### VP of Programming | Multicultural Greek Council at Georgia Institute of Technology

January 2019 – Present

- Unite 60 members from 5 different chapters through MGC kickoff, joint philanthropy, mixers and general body meeting
- Promote the awareness of multicultural diversity within collegiate institutions by interacting actively with other councils

### Treasurer | Xi Kappa Fraternity Inc. at Georgia Institute of Technology

May 2019 – Present

- Launch innovative and effective campaigns that will allow the chapter to meet budgetary needs
- Draft and manage print and social media communications designed to promote fund raising events

### President | Crimson Club at Taylor's University

January 2017 – December 2017

- Led a committee of 25 for the annual Crimson League, where 400 students compete in tournaments ranging from outdoor games to card games
- Spearheaded the Amazing Race event involving 120 participants, with key responsibilities in game planning and testing, preparation of logistics such as transportation, meals and accommodation

---

## PROJECTS

### Production of Benzyl Acetate via Esterification of Benzyl Alcohol and Acetic Acid | Senior Design

Spring 2020

- Designed a process on Aspen that includes heat integration, economic analysis, kinetics, mass and energy balance and separations techniques of the mass production of 100,000 gallons/year of 99% pure benzyl acetate
- Presented our design findings to the sponsor, CJB Industries

### Solar Perovskite Prediction | Data Analytic Modeling

Spring 2020

- Using KRR as a baseline model, designed and simulated two classification models (random forest and decision tree) that predicts the synthesizability of the perovskite catalyst to produce hydrogen out of water

### Kinetic Analysis of Methanol Production in an Industrial Packed Bed Reactor (PBR) | Modeling

Summer 2019

- Modeled conversion profile against length at varying temperature and amount of catalyst in both isothermal and non-isothermal adiabatic PBR

---

## OTHER SKILLS AND PROFICIENCIES

- Technology: Proficient in Aspen Plus, Simulink, Shiny, Microsoft Word, Excel and PowerPoint, Power BI, Jupyter Notebook
- Computer Languages: Proficient in Matlab, Python, Rstudio
- Certificates: Data Science Specialization, Six Sigma: Green Belt, Recombinant DNA, General Biology Safety Training
- Languages (4): English, Chinese and Malay (Fluent, Speech and Writing), Taiwanese (Conversational)