

BRYENT LEE KYLOON

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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 – Present

- 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*
- Measuring the fluorescence response in a microplate spectrophotometer and observe the growth phenotype of the transformants of the arsenic reporter to arsenic
- Performing 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
- Prepared a Power point presentation for 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, Microsoft Word, Excel and PowerPoint, Jupyter Notebook
- Computer Languages: Proficient in Matlab, Python, Rstudio
- Certificates: Data Science Specialization, Recombinant DNA, General Biology Safety Training
- Languages (4): English, Chinese and Malay (Fluent, Speech and Writing), Taiwanese (Conversational)