

BRYENT KYLOON LEE

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EDUCATION

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

December 2020

- Current GPA: 3.60 (Highest Honors)
- Related Coursework: Capstone Design, Process Control, Kinetics and Reactor Design, Separation Processes, Thermodynamics, Transport Phenomenon, Data Analytics, Differential Equation, Biochemistry, Cell Molecular, 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

Product Support Intern | Abclonal Technology

September 2020 – Present

- Manage service email and perform troubleshoot on antibodies, Western Blot, ELISA kits, and Covid-19 related products
- Apply decision to support and develop product sales, pricing strategies and process improvement
- Revise protocols/manuals on Immunohistochemistry and Immunofluorescence posted on the company website

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 result

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

PROJECTS

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

Spring 2020

- Designed a practical benzyl acetate production process for sponsors, CJB Industries
- Optimized mixing for enzyme-catalyzed batch reaction and minimized mass transfer effects
- Conducted ASPEN kinetics simulation, determined equipment sizing, and analyzed profitability
- Delivered feasible and profitable design recommendation to faculty and company leadership

Solar Perovskite Prediction | Data Analytic Modeling

Spring 2020

- Used data management strategies to merge and deal with missing values in the raw datasets
- Applying KRR as a baseline model, designed and simulated two classification models (random forest and decision tree)
- Predicted the synthesizability of the perovskite catalyst to produce hydrogen out of water using the best model

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

Summer 2019

- Evaluated the enthalpy of reaction, equilibrium constant, and equilibrium conversion as a function of temperature.
- Modeled conversion profile against length at varying temperature and amount of catalyst in both isothermal and non-isothermal adiabatic PBR on Aspen Plus

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 council

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

OTHER SKILLS AND PROFICIENCIES

- Laboratory: Packed-bed reactors, Fractional Distillation, Heat Exchangers, Titration, IR & NMR Spectroscopy
- Technology: Aspen Plus, Simulink, Shiny, Microsoft Word, Excel and PowerPoint, Power BI, AutoCAD
- Computer Languages: Proficient in Matlab, Python, Rstudio, SQL
- Certificates: Data Science Specialization, Six Sigma: Green Belt, Recombinant DNA, Lean Manufacturing
- Languages (4): English, Chinese and Malay (Fluent, Speech and Writing), Taiwanese (Conversational)