REBECCA R. RINEHART

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EDUCATION

Bachelor of Science in Biochemistry, The University of Texas at Austin   Aug 2018 – May 2022
    GPA: 3.86; Minor in Chinese
    Relevant Coursework
      Math – Differential Equations with Linear Algebra; Multivariable Calculus; Differential and Integral Calculus; Vector Calculus
      Statistics – Applied Statistics for Chemical Engineering; Biostatistics with R
Continuing Education, Dallas County Community College   Aug 2023 – Dec 2023
    Intro to MySQL, Intro to Python Programming

PROJECTS

Analysis of Halted Clinical Trials   Aug 2023 – Nov 2023
· Conducted a comprehensive analysis of over 13,000 clinical trial records in Python
· Created an interactive dashboard with Dash and Plotly to showcase key trends and insights, and optimized design with CSS
· Published a complete report of background, analysis, dashboard implementation, and key insights through Medium, LinkedIn, and GitHub

NLP Analysis of Generative AI Tweets   Oct 2023 – Present
· Use SpaCy and TweetNLP to perform sentiment analysis and entity recognition on 56,000 tweets about generative AI

EMPLOYMENT

Research Technician – *Natera*   Feb 2023 – Present
· Query Snowflake database and conduct inventory management with Google Sheets/Excel
· Conduct weekly database uploads using SQL and Python, and visualizations in Looker Studio
· Design and implement novel inventory system for new sample type while prioritizing sample organization, reducing ticket turnaround time by 12x
· Create data reports and visualizations using Google Colab and Looker Studio
· Lead 11 group interviews, demonstrating strong leadership and organizational skills. Designed effective interview format to evaluate candidates' skills and cultural fit.

Lab Technician II – *Nulixir*   Oct 2022 – Feb 2023
· Performed microencapsulation of various functional ingredients for a food & beverage start-up
· Introduced practice of presenting relevant graphs and charts for communicating sample stability to management
· Spearheaded a Google Sheets inventory system, and a robust and scalable means of QC logging
· Worked independently on a small team while balancing competing priorities, producing fast turnaround of analytical results, and conducting research to develop a new product

Research Intern – *Asuragen*   June 2022 – Sep 2022
· Improved ddPCR assay recovery by 5x during an independent research project
· Collaborated with sister company to assess feasibility of and optimize reverse transcription technology for use in potential oncology monitoring product
· Presented experimental results, accurate data analysis, and visualizations to a cross-functional team on a weekly basis

Undergraduate Research Assistant – *Keitz Research Lab*   Jan 2019 – May 2022
· Designed an individual research project, including project proposal and abstract, and Gantt chart timeline
· Characterized a two-component iron sensing system in *E. coli* and *S. oneidensis*, using gene circuit design and spectroscopy data
· Presented research at weekly group meetings, subgroups, and poster sessions

Tutor – *Sanger Learning Center, UT Austin* Aug 2020 – Dec 2021

· Tutored other undergraduates in Organic Chemistry I/II, Genetics, and Integral Calculus

· Established a reputation for effective teaching, evidenced by repeat students seeking ongoing assistance

· Successfully promoted Sanger by publicly tabling on campus, providing comprehensive information about the department to enhance awareness and interest

Peer Coach – *Women in Engineering Program, UT Austin* Aug 2019 – May 2020

· Mentored a dorm cohort of 76 first-year engineering women, with an emphasis on high school to college transitioning

· Led a team of 4 peer coaches in organizing and implementing weekly activities and local outings, fostering a strong cohort community

· Guided weekly classes and office hours for a year-long project that explored the engineering design process

HONORS & AWARDS

College Scholar, College of Natural Sciences 2020 – 2022
Second Place in Synthetic Biology, Fall Undergraduate Research Symposium 2021
Carl Robert Kahmer Endowed Scholarship in Chemical Engineering, UT Austin 2019 – 2020
Highest Ranking High School Graduate Scholarship, UT Austin 2018 – 2019

PUBLICATIONS

A.J. Graham, C.M. Dundas, G. Partipilo, I.E. Miniel Mahfoud, T. FitzSimons, **R. Rinehart**, D. Chiu, A.E. Tyndall, A.M. Rosales, B.K. Keitz**.** Transcriptional Regulation of Synthetic Polymer Networks**.** *bioRxiv,* Pre-print; doi: https://doi.org/10.1101/2021.10.17.464678

RELEVANT SKILLS

1 Year of Python (Pandas, Numpy, MatPlotLib, Plotly); SQL (MySQL)
1 Year of Data Visualization; Dashboard Creation (Dash, Looker Studio), HTML/CSS; Data Preparation and Cleaning
Natural Language Processing (SpaCy, TweetNLP)
Process Improvement, Training, Writing SOPs, Conducting and Leading Interviews