

Chris Coble

San Jose, CA 95126

ccobe2221@gmail.com | (607) 331-0017

[LinkedIn](#) | [GitHub](#)

Summary

Research Associate with 4 years of experience in the biotech industry, academic research, and AI, bringing a strong background in molecular biology, cell engineering, and computational analysis. Skilled in culturing HEK293, Jurkat, and PBMC cells, performing functional assays like flow cytometry and ELISA, and molecular cloning techniques such as plasmid prep, transformation, and gibson assembly. Experienced in supporting interdisciplinary teams in quick paced environments. Excited to contribute to the development of innovative cancer immunotherapies.

Professional Experience

Data Scientist Intern

Omdena, Remote | 10/2024 – Present

- Led a collaborative effort involving exploratory data analysis initiatives focused on uncovering hidden correlations within healthcare data sets from Sudan; shared essential findings with stakeholders
- Built and refined CNN architectures that processed vast datasets, streamlining the development of AI tools for crop disease detection, now deployed for Kenyan farmers, aiding in crop treatment and yields
- Led global report writing, exploratory data analysis, and modeling teams of 20, developing interpersonal and collaborative skills while delivering finalized tasks within two weeks

Research Associate

Astellas Gene Therapies, South San Francisco | 01/2022 – 05/2024

- Cultured HEK-293, Expi-293, Jurkat, and PBMC cell lines, utilized for AAV transduction, increasing company portfolio
- Transduced cell cultures with experimental viral proteins in tandem with AAV, increasing AAV expression and payload
- Utilized AKTA liquid chromatography to purify AAV particles, achieving concentrations of 1e14Vg/mL
- Constructed 100+ unique plasmids via molecular cloning techniques, saving hundreds of thousands of dollars
- Titered almost 200 AAV batches with ddPCR and ELISA, used company-wide, saving outsourcing costs
- Performed flow cytometry on transduced cell cultures, proving existence of and quantifying viral payload

Research Technician

Varodayan Lab, Binghamton University Psychology Department | 06/2020 – 03/2021

- Managed lab operations, including equipment setup, inventory, ordering, and budgeting several hundred thousand dollars, successfully getting the lab operational in five months
- Engaged in and presented research findings at collaborative, weekly neuroscience department meetings
- Designed a two-month experiment using qPCR to test alcohol's impact on COVID-19 transmission

Researcher

Grewer Lab, Binghamton University Department of Chemistry | 01/2019 – 05/2020

- Synthesized amino acid transporter inhibitors using organic chemistry techniques, creating three compounds used in research
 - Transfected HEK-293 cells with transporters, finding inhibition was increased when experimental drugs were applied
 - Presented research findings and literature reviews weekly in meetings
-

Education

B.S. in Biochemistry | Binghamton University, 2020 | GPA: 3.90/4.00

Technical Skills

- **Molecular Biology:** Molecular Cloning, Restriction Digestion, Ligation, Gibson Assembly, Cell Culture, Plasmid DNA Prep, Flow Cytometry, PCR, ddPCR, ELISA, Transfection, Fluorescence Microscopy, HPLC, Pipetting
- **Statistical Analysis and AI:** Hypothesis Testing, Z-tests, Chi-Squared Tests, Regression, Classification, Clustering, PCA, CNN, NLP, LLM
- **Python Packages:** Pandas, SciKit-Learn, NumPy, Matplotlib, Seaborn, TensorFlow, Pytorch, Streamlit, Kivy, HuggingFace, Biopython
- **Software:** Prism, JMP, BioRender Microsoft Suite, Google Suite, Snapgene, Power BI, Tableau