

Brandon Gonzalez

m(818) 835-7661

Brandgonz94@gmail.com

Github.com/brandonGonzalez01

EDUCATION

University of California, San Diego. Class of 2020 **Major:** Biochemistry **Minor:** Computer Science

Relevant classes:

Structural Biochemistry, Genetics, Organic Chemistry, Intro to Java I/II, Algorithms and Data structures, Software Tools and Techniques, Computer Organization and System Programming. Currently in Molecular Biology, Metabolic Biochemistry, Intro to Bioinformatics.

EXPERIENCE

IQVIA, Project leadership Intern in Oncology

Clinical Project Management, January 2019 – Current

- Shadow and learn functions and projects under the close supervision of a department employee.

Catalent, Lab Assistant

Drug Delivery and Formulation, April 2018 – November 2018

- Assist in drug formulation experiments such as purity and potency analysis under the supervision of a full time pharmaceutical chemist.
- Learn and comply with all GMP practices in use at company.

The Scripps Research Institute, Undergraduate Research Assistant

Juan Carlos De la Torre, Virology Lab, October 2016 – June 2017 | September 2017 – March 2018

- Experienced with biochemical assay techniques such as electrophoresis, western blots, PCR, cloning, cell splitting and transfections to assist in lab's investigation of potential live attenuated vaccines.

EntroGen Inc, R&D Intern - Cancer diagnostics

October 2015 - September 2016 | June 2017 - September 2017

- Aid in R&D and validation of qPCR medical diagnostic assays targeting RNA, cell free DNA.
 - Screened hundreds of client samples on highly multiplexed qPCR assays, optimizing protocols.
-

PROJECTS & SKILLS

Building a machine learning app to predict solubility of a molecule

github.com/brandonGonzalez01/2018summer_chem_project

Input molecules and get solubility predictions with interactive charts.

Tools Used: Python, Javascript, HTML, Bootstrap, Keras, scikit-learn, pandas, numpy, Chart.js, RDKit.

Life Science Skills: Experience in BSL2/3 and high potent compound labs, working with human plasma, image analysis, qPCR, light microscopy, biochemical assays, HPLC/UPLC, Research, Validation.

Organizational skills: Maintaining lab notebooks in an FDA regulated environment, using Jupyter notebooks to document optimization of ML models.

Computer Science Skills: Experience with Java, Python, Bash scripting, Some experience: C, R, JavaScript and HTML. Knowledge of Concepts: OOP design, algorithms, Unit Testing, Machine learning. Tools: Git, GitHub, Vim, Visual Studio, JUnit and GDB, some AWS services.

REFERENCES

- Meghan Walsh, Ph.D.: EntroGen Regulatory Affairs Manager Meghan.walsh@entrogen.com
- Kirk Reynolds, Ph.D.: Catalent Pharmaceutical Chemist, Supervisor Kirk.reynolds@catalent.com