Arielle Soomi Yoo

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Education:

Ph.D. in Biomedical Engineering from University of California, Davis**,** Completion Date: N/A
B.S. in Bioengineering: Bioinformatics from University of California, San Diego, Completion Date: June 2020

Relevant Coursework:

- Basic Data Structures and OO Design, Advanced Data Structures, Algorithms, Bioinformatics Lab, Machine Learning

Skills:

Programming in Python	Bacteria Conjugation	DNA Digest
Programming in C/C++	Bacteria Transformation	PCR
Programming in Java	Microsoft Office	Gel Extraction Miniprep

Research Experience:

Graduate Student Researcher, UC San Davis under Dr. Ilias Tagkopoulos (Jan 2020 - Present)
- Collaborating on a machine learning research project (on a NDA right now)

Intern, UC San Diego under Dr. Ludmil Alexandrov (January 2019 – June 2020)
- Led subproject on analyzing copy number variations in precancer data
- Managed precancer data from approx. 115 previously published research papers
- Presented updates for the precancer database project with PhD student Phoebe He

Intern, Joint Genome Institute under Dr. Kjiersten Fagnan, Dr. Rita Kuo, Chris Beecroft, and Julie Kang (June – September 2018)
- Managed JGI Archive and Metadata Organizer tasks such as debugging Python code and reformatting data with Chris Beecroft and Julie Kang
- Conducted bacteria conjugation research involving Burkholderia glumae with Dr. Rita Kuo
- Established the Diversity and Inclusion Newsletter as a Diversity and Inclusion group member

Intern, UC San Diego under Dr. Jin Zhang (May 2017 – June 2018)
- Examined genomic information to create Hippo biosensors under Postdoc Eric Greenwald
- Conducted DNA digest, PCR, gel extraction Miniprep, and bacteria transformation
- Organized relevant published biosensor designs into the lab database
  - Acknowledged PMID: 30550275

Work Experience:

SULI Intern, Lawrence Berkeley National Laboratory (June – August 2019)
- Modified user interface for Dr. Ernst Oberortner's Operon Refactoring and Construction Assistant
- Presented project at the Summer Undergraduate Laboratory Internship (SULI) Poster Session

Organizations:

Lifetime Member, Tau Beta Pi (February 2018 – June 2020)
- *Secretary* (June 2018 – June 2020)
  - Led communication with the National Tau Beta Pi organization
  - Documented officer meetings, created action items, and conducted initiation proceedings
- Volunteered regularly and planned professional development events
- Initiated on February 3, 2018 as part of the top 1/8 of the junior class at UCSD

IDEA Scholar, IDEA Scholars Program (September 2016 – June 2020)
- Mentored underclassmen in course enrollment, major selection, and career planning
- Awarded the Lawrence Livermore National Laboratory Award from the IDEA Center for academic excellence and research (2019)
- Awarded the Boeing-IDEA Center Scholarship for academic excellence and research (2017)

Awards:

USE Credit Union Dream Scholarship (2020), *Revelle College UCSD Summa Cum Laude* (2020)*, Revelle Provost Honors* (2016 – 2020), *Phi Beta Kappa* (2019), *Lawrence Livermore National Laboratory Award* (2019), *Boeing-IDEA Center Scholarship* (2017)