

Forrest Hsu

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SUMMARY

Self-starting and ambitious University of Washington **molecular biology** graduate with a passion for creating biological solutions to modern problems. **Developed assays** for Adaptive Symbiotic Technologies, learned **synthetic biology** with Washington iGEM, and currently improving **programming and machine learning** skills independently. Demonstrated capability in individual and team environments.

EDUCATION

UNIVERSITY OF WASHINGTON

Bachelor of Science in Molecular, Cellular, and Developmental Biology, Class of 2021 || GPA 3.4

SEATTLE CENTRAL COLLEGE

Associate of Science, Class of 2019

EXPERIENCE

OFFICER AND RESEARCHER || Washington iGEM

Mar 2020 - Nov 2020 || Seattle, WA

The University of Washington's premier competitive synthetic biology team

- Established positive relationships with experts and stakeholders, while maintaining rapport through the project.
- Gained experience with plasmid design, genetic engineering, and computational biology.
- Organized team functions such as literature review, external presentations, and project design.
- Presented the team's work at an international synthetic biology symposium.

NEW PRODUCT DEVELOPMENT BIOLOGIST || Adaptive Symbiotic Technologies

Sep 2018 - May 2020 || Seattle, WA

Microbiology startup that develops symbiotic fungi for agricultural use

- Halved data collection time and increased data precision five-fold by fabricating and programming an image analysis platform.
- Screened yeast for commercial use using biochemical, in vitro, and in planta assays.
- Developed workflows to characterize fungal - plant interactions.
- Presented research at the UW Undergraduate Research Symposium.

SKILLS

Laboratory || PCR, Gel Electrophoresis, Mini Prep, Sterile Technique, Protein Chromatography, Genetic Transformation, Antibiotic Screening, Optical Microscopy, Fungal Culture, Prototype Fabrication

Computer || Programming and Data Analysis [Python], Benchling (ELN), Autodesk Fusion 360, ImageJ [Macros], Excel, Microsoft Office, LaTeX, Gsuite, Notion

VOLUNTEER

• Bainbridge Bands Marching Band Instructor || Oct. 2017 - Present

Lead the ensemble to record breaking scores and gained a wide education/communication skill set after a season in Drum Corps International. Fostered a nurturing environment that created motivated and collaborative students.

• Savoy Swing Club Organizer || Apr. 2018 - Present

Through dedication, data collection and data analysis, turned the organization around by converting a loss of \$186/event to a profit of \$105/event. Frequent trombonist at dance events, community liaison, and awarded the prestigious title of 3rd most fun dancer.

• The m9 Section Leader || Mar. 2018 - Present

Seattle based Balkan Romani Brass Band. While this ensemble is focused on social justice, anti-nationalism, and bringing awareness to the Romani culture; the band is not above bar-crashing and leading an impromptu parade around the city.