

# Forrest Hsu

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## SUMMARY

Self-starting and ambitious **molecular biologist** with a passion for creating biological solutions to modern problems. **Developed assays** for Adaptive Symbiotic Technologies, learned **synthetic biology** with Washington iGEM. Demonstrated capability in individual and team environments.

## EXPERIENCE

### RESEARCH ASSOCIATE || Zymergen

Jul 2021 || Emeryville, CA

*We partner with nature to create the products of tomorrow*

- Generated ~100 strains of *E. coli* using genetic libraries to increase titer and solubility of the target peptide.
- Created a python notebook with a GUI that was adopted by 4 teams to properly create sample relationships in LIMS, eliminating previously common errors.
- Developed protocols and scripts to increase the robustness, repeatability, and reduce the hands on time of frequently completed steps.

### NEW PRODUCT DEVELOPMENT BIOLOGIST || Adaptive Symbiotic Technologies

Sep 2018 – May 2020 || Seattle, WA

*Agbio startup that develops endomycorrhizal fungi increase abiotic stress tolerance*

- Fabricated and programmed an image analysis platform for seed-microbe interactions, halving data collection time and increasing data precision five-fold.
- Assesed microbe performance by performing molecular, biochemical, enzymatic, and growth assays.
- Developed workflows to characterize fungal - plant interactions.
- Presented research at the UW Undergraduate Research Symposium.

### OFFICER AND RESEARCHER || Washington iGEM

Mar 2020 - Nov 2020 || Seattle, WA

*The University of Washington's premier competitive synthetic biology team*

- 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.

## SKILLS

**Laboratory** || Automation (Tecan, Bravo, ZAG, QPix), PCR, Gel Electrophoresis, Mini Prep, Gibson Cloning, Genetic Transformation, Antibiotic Screening, Sterile Technique, Fungal Culture, Microscopy, Prototype Fabrication  
**Computer** || Programming and Data Analysis [Python], Process Automation [Python], LIMS, Benchling (ELN), JMP, Jupyter/Binderhub, Github, ImageJ [Macros], Excel, Microsoft Office, LaTeX, Gsuite, Notion

## 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