Yifei Ding

+1 (949) 981-8316
yid019@ucsd.edu
github.com/dingyifei

EDUCATION

Graduate – *UCSD,* San Diego
SEPT 2025 - PRESENT
- Master of Science in Bioengineering (Thesis)

Undergraduate – *UCSD,* San Diego
SEPT 2021 – JUNE 2025
- GPA: 3.844
- Major: Bioengineering: Bioinformatics
- Minor: Marine Science

High School – *Crean Lutheran High School,* Irvine
SEPT 2017 – JUNE 2021
- Project Lead The Way Engineering Cohort
- Summa Cum Laude
- GPA: 4.85

PROJECTS

Undergraduate Research (Analyze Data from Fjord Phyto)
WINTER 2024 – *exomes.sdsc.edu/fjordphyto/*
- Conducted research with Prof. Terry Gaasterland to analyze Phyto Fjord Project data provided by Cusick Allison.
- Filtered data by regions, expression levels, and species to find trends.
- Contributed to the filtering and clustering of data to search for trends in phytoplankton population in low salinity-level fjord water and surface sea water.

A machine learning model of bacterial translation efficiency from DNA sequence for protein production applications
JUN. 2024 - JUN. 2025 –
- Presented in UCSD Bioengineering Day(BE Day) and Undergraduate Research Conference (URC)
- Our research, conducted under the supervision of Daniel Zeilinski, focuses on employing machine learning models to transparently predict the translation efficiency of E. coli. These models facilitate the quantification of the effects of various features.
- evaluating and processing various data for model training, testing, and validation
- implementing components of the ML workflow, compared the difference between different types of data filtering, normalization, and representation methods to improve the performance of our machine learning model.

uSlime
SEPT. 2024 - PRESENT – *github.com/ReSummit/uSlime*
- Co-developing uSlime, a smaller motion tracking hardware compatible with SlimeVR firmware.
- designing a CAD model for the tracker enclosure that can be 3D printed and remains lightweight.
- Improved electrical design through testing identified problems with the PCB design.

EXPERIENCE

Network and Systems Administrator/IT Infrastructure Manager, International Sales Representative – *Hangzhou Engrid Technology,*

SKILLS

Programming/Bioinformatics

Languages: Python, Bash, C/C++, .Net VB, Java, HTML/CSS, R, Matlab, Octave
Familiar libraries/tools: Git, Pandas, scipy, matplotlib, seaborn, numpy, Deseq2, fastqc, samtools
Familiar IDEs: JetBrains, Visual Studio, VS Code

Engineering

CAD Design
G-Code Programming(CNC/3D Printer)
Klipper 3D Printer Firmware Tuning
3D Printer Operation and Repair
3D Printing with Slicer Tuning (FDM/FFF and SLA/DLP)
PCB Layout/Fabrication
Laser Cutting

IT

Linux (Redhat, Debian)
Hypervisors (VSphere, Proxmox)
Container (Docker/Podman)
Domain and DNS Management
Github Workflow Automation
Weblate
Nextcloud ACL
OpenZFS
pfSense
UniFi
TrueNAS
LDAP
SAMBA ACL

LANGUAGES

Mandarin Chinese (Native)
English (Advanced)

AWARDS

Provost Honors
University of California, San Diego
FALL 2021 - SPRING 2025

Phi Beta Kappa Honor Society
University of California, San Diego
JUNE 2025 - PRESENT

Invitation to Join Eta Kappa Nu (IEEE-HKN)
University of California, San Diego
FALL 2022

Summa Cum Laude
Crean Lutheran High School
2021

www.engrid.cn
2020 – PRESENT

- Designed, deployed, and currently monitoring and maintaining
  1. on-site hyper-converged server cluster
  2. high redundancy 40Gbps networking infrastructure
  3. on-site UniFi wireless networks
  4. backup systems
  5. virtual machine templates
  6. uninterruptible power supplies (UPS) for critical systems
- On-site server racking, configuration, and management (seasonal)
- Conducted emergency data recovery and server/networking system repair

Localization Core Maintainer – *Klipper,* klipper3d.org
MARCH 2021 – PRESENT

- Leading a dynamic team of over 200 translators
- Developed scripts to integrate Weblate and MkDocs
- Review and refined source documentation with developers

Volunteer – *UCSD Envision Makerspace,* jacobsschool.ucsd.edu/envision
2021 – PRESENT

- Repaired and maintained 3D printers.
- Provided guidance and answered questions related to 3D printers, laser cutters, and other specialized tools.

California Scholarship Federation Lifetime Member
California Scholarship Federation
2021

PLTW Engineering Cohort
California Scholarship Federation
2021

AP Scholar With Distinction
College Board
2020, 2021