

# Teng-Jui Lin

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## Education

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**University of Washington** | Seattle, WA, USA

Sep 2019 – Present

- B.S. in Chemical Engineering, Nanoscience and Molecular Engineering Option, with Departmental Honors
- Minor in Applied Mathematics and Chemistry
- GPA: 3.97 | Expected Graduation: June 2023
- Mary Gates Research Scholarship | 2 Dan Evans Term Scholarships | C-HACK Team 1st, 3rd Places

**Brown University** | Providence, RI, USA

Jun 2018 – Aug 2018

- Pre-Baccalaureate Program: Neuroscience, Cell and Molecular Biology

**Kinglee High School** | Zhengzhou, Henan, China

Sep 2013 – Jun 2019

- Discovery Fair 1st Place | Science Fair 1st, 2nd Places | 2 Peer Tutor Awards | Merit Student of Zhengzhou

## Relevant Experience

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**Undergraduate Research Assistant**

Nov 2020 – Present

*Department of Chemical Engineering, University of Washington, PI: Elizabeth Nance*

- Quantified microglia morphology of 3 datasets using image processing and machine learning methods
- Developed Python API for data analysis for modular integration to fluorescent image analysis workflow
- Scanned 102 murine breast cancer tissue slices using confocal microscope (24.5 hr) for collaborators
- Surveyed literature regarding cell segmentation, morphological analysis, and image-based profiling

**Summer Undergraduate Research Scholar**

Jun 2022 - Aug 2022

*STROBE NSF Science and Technology Center on Real-Time Functional Imaging*

*Department of Physics, Florida International University, PI: Jin He*

- Fabricated and functionalized gold nanorods for promoting maturation of engineered cardiac tissues
- Characterized gold nanorods using UV-visible spectroscopy and Raman spectroscopy
- Measured contractile force of cardiac tissues by analyzing brightfield microscopy video data with Python
- Processed confocal microscopy images of T-tubular systems of cardiomyocytes with Python

**Calculus Teaching Assistant**

Sep 2018 – May 2019

*Kinglee High School*

- Gave AP Calculus AB lectures 4 hours weekly to 5 students in alignment with CollegeBoard curriculum
- Clarified complex concepts and common confusions about calculus with classroom activities
- Worked with supervisor to design and grade concept checks, homework, and quizzes with tight deadlines

## Other Experience

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**Webmaster**

Apr 2022 – Present

*American Institute of Chemical Engineers (AIChE), University of Washington*

- Managed and designed official website; monitored and updated social media accounts and email list
- Coordinated with internal and external media efforts to ensure up-to-date online presence
- Facilitated coordination of ChemE BBQ event and graduation ceremony

**Secretary**

May 2021 – Present

*Women in Chemical Engineering, University of Washington*

- Kept transparent meeting records, managed member email list, and maintained student group registration
- Composed biweekly newsletters to 400+ members to update events, resources, and diversity highlights
- Facilitated coordination of Veteran's Day event, Wiki-edit-a-thon, and International Women's Day event

**Research and Development Officer**

Apr 2020 – Jun 2021

*Chinese Students and Scholars Association, University of Washington*

- Designed, crafted, and edited posters and videos for major events, such as Student Orientation Programs
- Assisted in maintenance of official blog and website to provide resources based on students' need

**Maple Hall Council SEED Representative**

**Oct 2019 – Mar 2020**

*Housing and Food Services, University of Washington*

- Led committee meetings and planned campus-wide competition that raised waste sorting awareness
- Attended weekly hall council and SEED meetings to liaise feedback and updates on activities and initiatives

**Peer Tutor of Math, Science, and English**

**Sep 2016 – Jun 2019**

*Kinglee High School*

- Taught active reading and note-taking strategies to English as a second language (ESL) students
- Reviewed course notes, clarified complex concepts, and provided feedback for course assignments
- Received 2 Peer Tutor Awards in recognition of outstanding contribution to the peer tutoring program

**Student Council Historian and Secretary**

**Oct 2017 – Jun 2019**

*Kinglee High School*

- Prepared, coordinated, and executed activities, including Halloween activities, Thanksgiving Bonfire Nights, Christmas celebrations, Spirit Weeks, and Academic Integrity Seminar
- Drafted, edited, and updated activity proposals and meeting minutes for iterative improvement of execution
- Raised 1000+ CNY funds and 200+ books for children in need with fundraising events

**Lab Peer Supervisor**

**Mar 2017 – Mar 2019**

*Kinglee High School*

- Supervised biology, chemistry, and physics lab practices of 9th-grade students for Zhongzhao Examination
- Taught lab safety guidelines, standard lab procedures, and best practices, as well as ensured lab safety