

Teng-Jui Lin

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Education

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
- Expected Graduation: June 2023
- GPA: 3.97/4.0, ChemE GPA: 4.0/4.0

Brown University | Providence, RI, USA Jun 2018 – Aug 2018

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

Professional Experience

Undergraduate Research Assistant Nov 2020 – Present

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

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

Honors & Awards

Poster Competition 2nd Place | American Institute of Chemical Engineers 2022

Conference Travel Award | Undergraduate Research Program, University of Washington 2022

Future Leader in ChemE | Dept. of Chemical and Biomolecular Engineering, NC State University 2022

Dan Evans Term Scholarships | Department of Chemical Engineering, University of Washington 2021 & 2022

ChemE Hackathon Team 1st Place | Department of Chemical Engineering, University of Washington 2022

Mary Gates Research Scholarship | Mary Gates Endowment for Students, University of Washington 2021

ChemE Hackathon Team 3rd Place | Department of Chemical Engineering, University of Washington 2021

Presentations

Presenting Author[^]

Oral Presentations

3. H. Helmbrecht[^], E. Nance, K. Decker, **T.-J. Lin**, S. Janakiraman, M. Onodera. Analysis of Microglia Morphology across Different Neuroinflammatory Rat Models. *AIChE Annual Meeting, Phoenix, AZ, USA*. 13 Nov 2022. [Link](#).
2. **T.-J. Lin**[^], H. Helmbrecht, E. Nance. Incorporating Visually Aided Morpho-Phenotyping Image Recognition into robust microglial shape analysis. *Undergraduate Research Symposium, University of Washington, Seattle, WA, USA*. 20 May 2022. [Link](#).
1. **T.-J. Lin**[^], H. Helmbrecht, E. Nance. Robust microglial shape analysis using Visually Aided Morpho-Phenotyping Image Recognition. *AIChE Pacific Northwest Student Regional Conference, Seattle, WA, USA*. 23 Apr 2022.

Poster Presentations

4. **T.-J. Lin**[^], H. Helmbrecht, E. Nance. Quantifying microglia morphology across neuroinflammatory rat models with unsupervised machine learning. *Southern California Conference for Undergraduate Research, Malibu, CA, USA*. 19 Nov 2022. [Link](#).
3. **T.-J. Lin**[^], H. Helmbrecht, E. Nance. Quantifying microglia morphology across neuroinflammatory rat models with unsupervised machine learning. *AIChE Annual Student Conference, Phoenix, AZ, USA*. 13 Nov 2022. [Link](#).
2. **T.-J. Lin**[^], H. Helmbrecht, E. Nance. Quantifying microglia morphology across neuroinflammatory rat models with unsupervised machine learning. *Future Leaders in Chemical Engineering Award Symposium, North*

Carolina State University, Raleigh, NC, USA. 24 Oct 2022. [Link](#).

1. **T.-J. Lin**[^], A. Rubfiaro, G. Ghimire, J. He. Fabrication and characterization of functionalized gold nanorods for improving engineered cardiac tissue maturation. *Center for Diversity and Student Success Summer Research Symposium, Florida International University, Miami, FL, USA*. 29 July 2022.

Mass Media Appearances

1. (Insights letter) R. Tang, T. Bharani, J. Ding, K. Li, J. Wen, S. D. Gopinath, **T.-J. Lin**, J. X. J. Luo, Q. Wen, K. Davis, N. van Rhijn, Name withheld, S. M. Anderson, R. J. Patel, S. Sarnala, F. S. Oda, G. Singh, N. R. Kothapalli, N. Scott, J. R. Powell, S. N. Kirshner. When internships disappoint. *Science*. 378, 22–24 (2022). DOI: [10.1126/science.ade6397](https://doi.org/10.1126/science.ade6397).

Teaching Experience

Calculus Teaching Assistant | *Kinglee High School* **Sep 2018 – May 2019**

Service

Undergraduate Research Leader **Sep 2022 – Present**

Undergraduate Research Program, University of Washington

Webmaster **Apr 2022 – Present**

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

Secretary **May 2021 – Present**

Women in Chemical Engineering, University of Washington

Research and Development Officer **Apr 2020 – Jun 2021**

Chinese Students and Scholars Association, University of Washington

Maple Hall Council Sustainability Representative **Oct 2019 – Mar 2020**

Housing and Food Services, University of Washington