

# Emily T. Nguyen

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## Education

Aug 2022-Present Ph.D. in Computer Science  
2018-2022 B.A. in Computer Science

**University of Southern California (USC)**  
**University of California, Berkeley (UC Berkeley)**

## Research Experience

Jun 2024 Research Affiliate (Present)  
- Advisor: Dr. Jim Collins

**Broad Institute of MIT and Harvard**  
Infectious Disease & Microbiome Program

Aug 2022 Research Fellow (Present)  
- Advisor: Dr. Yan Liu

**University of Southern California**  
Department of Computer Science

Jan 2020 Research Affiliate (32 months)  
- Advisor: Dr. Kristofer Bouchard

**Lawrence Berkeley National Laboratory**  
Computational Biosciences Division

Jun 2021 Research Apprentice (12 months)  
- Advisor: Dr. Roy-Ben Shalom

**University of California, Berkeley**  
Undergraduate Interdisciplinary Studies

Aug 2019 Research Apprentice (23 months)  
- Mentor: Dr. Roy-Ben Shalom; Supervisor: Dr. Kevin Bender

**University of California, San Francisco**  
Department of Neurology

## Honors and Awards

2024 Excellence in Science Communication for Social Good Award

*USC*

2024 Undergraduate Mentoring Research Award

*USC*

2023 NSF GRFP (National Science Foundation Graduate Fellowship)  
- Field of Study: Comp/IS/Eng - Machine Learning

*USC*

2023, 2024 Graduate School Research Award

*USC*

2022 Viterbi & Graduate School Fellowship

*USC*

2022 Honors Program in (EECS) Electrical Engineering and Computer Sciences  
- Emphasis: Computational Neuroscience

*UC Berkeley*

2021 SURF \$5000 Rose Hills Independent Fellowship

*UC Berkeley*

## Scholarship

### Conference Papers

2023 [C2] Transferable and Interpretable Treatment Effectiveness Prediction for Ovarian Cancer via Multimodal Deep Learning.

*Emily Nguyen*, Zijun Cui, James Enouen, Georgia Kokaraki, Joseph Carlson, Yan Liu.  
American Medical Informatics Association (AMIA), 2023.

2021 [C1] ReachMaster3D: An Experimental Platform Capable of Precise 3D Measurement of Whole-Arm Kinematics as Rodents Perform Freely-Behaving Reaches.

Brett Nelson, Shafeeq Ibraheem, *Emily Nguyen*, Kristofer Bouchard.  
Society for Neuroscience (SfN), 2021.

### Theses

2022 [T1] Machine Learning Methods for Supervised Classification of Behavioral Time Series Data.  
*Emily Nguyen*.

B.A. Thesis; EECS Dept, University of California, Berkeley, 2022

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## Research Presentations

- Mar 2024 *Best Oral Presentation Award* - Treatment Effectiveness Prediction via Multimodal Deep Learning, USC Pathology Conference.
- Nov 2023 Machine Learning for Community Health Concerns, WiSE STEM Seminar, USC.
- Nov 2023 Transferable and Interpretable Treatment Effectiveness Prediction for Ovarian Cancer via Multimodal Deep Learning, AMIA'23.
- Aug 2023 Treatment Effectiveness Prediction for Ovarian Cancer, KDD'23.
- Mar 2023 AI for Health: Oncology Decision Support in Ovarian Cancer. WiSE STEM Seminar, USC
- Mar 2021 ReachSplitter3D: Automated Behavioral Classification of 3-D Kinematics in Rats, SURF Conference, UC Berkeley.

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## Teaching Experience

### USC

- Fall 2024 Mentor for Capstone Projects in Large Software Systems, CS 401 (UG level)
- Spring 2024 Mentor in Google Artificial Intelligence x Viterbi LA Community Project
- Fall 2023 Future Faculty Teaching Institute Certification from Center for Excellence in Teaching
- Fall 2022 Teaching Assistant in CS@SC Program and LA Unified School District

### UC Berkeley

- Spring 2022 Teaching Assistant in Computational Models of Cognition, CS131 (UG level)
  - Received excellent ratings on knowledgeability, supportiveness, clarity, availability, and grading fairness from 93% of student survey respondents.
- Fall 2021 Junior Teaching Assistant in Principles of Data Science, Data100/200 (Grad/UG level)
- Spring 2021 Tutor in Adaptive Instruction Methods in Computer Science, CS370 (UG level)
  - Received maximum scores for knowledgeability, supportiveness, and clarity from 98% of students.
- Fall 2020 Junior Teaching Assistant in Machine Structures, CS61C (UG level)
- Spring 2020 Junior Teaching Assistant in Data Structures, CS61B (UG level)
- Fall 2019 Junior Teaching Assistant in Structure of Computer Programs, CS61A (UG level)
- Spring 2019 Junior Teaching Assistant in Foundations of Data Science, Data8 (UG level)

### Figure Skating Coaching

- 2018-2019 Private coach for figure skating and hockey lessons (all levels)
- 2014-2018 Figure Skating Coach at IceTown Carlsbad Skating Center
- 2014-2016 Assistant Coach at IceTown Carlsbad Skating Center

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## Leadership Activities

- Aug 2023-Present Facilitator for the Engineering in Society Program Ethos Discussions *USC*
- Aug 2021-Present Advisor for the Office of Undergraduate Research and Scholarships *UC Berkeley*
- Jan-May 2024 Student advisory member for Viterbi K-12 STEM Center AI initiative *USC*
- Apr 2023 Ambassador for Engaging Girls in STEM with LA County Office of Education *USC*
- 2019 Golden Bear Orientation Leader for New Student Services *UC Berkeley*

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## Academic Service and Mentoring

- Mar 2024-Present Student liaison for AMIA Student Working Group Member at Large
- May 2024 Reviewer AMIA 2024
- Aug 2023 Volunteer at Knowledge Discovery and Data Mining Conference (KDD)
- Jun 2023 Volunteer at USC Machine Learning Center Deep Learning Summer School
- Dec 2022-Present Student Mentoring: Angela Xu, Leyland Yang, Brian Liu, Alaba Alabaweh

## Media Coverage

- Aug 2024 The Good Life Discussions: Student-Led Conversations at USC *USC Press*
- Jul 2023 USC Computer Science Students Awarded NSF Graduate Fellowships *USC Press*
- Jun 2023 USC Invests \$1 Billion into Advancing Computing Research Curriculum *Spectrum News*

## Other Skills and Interests

- Languages: English
- Programming Languages: Python, C, Java, SQL, RISC-V Assembly, Go, Scratch
- Interests: nature photography, sunset walks on campus