

# Emily Nguyen

## Curriculum Vitae

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### Education

2022-2027 Ph.D. in Computer Science  
2018-2022 B.A. in Computer Science (GPA:3.8/4.0)

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

### Research Experience

Aug 2022 Research Assistant  
- Advisor: Yan Liu  
Jan 2020 Research Affiliate (32 months)  
- Advisor: Kristofer Bouchard  
Jun 2021 Research Apprentice (12 months)  
- Advisor: Roy-Ben Shalom  
Aug 2019 Research Apprentice (23 months)  
- Mentor: Roy-Ben Shalom; Supervisor: Kevin Bender

**University of Southern California**  
Department of Computer Science  
**Lawrence Berkeley National Laboratory**  
Computational Biosciences Division  
**University of California, Davis**  
Department of Neurology  
**University of California, San Francisco**  
Department of Neurology

### Honors and Awards

2023 National Science Foundation Graduate Research Fellowship Program  
- 22 ML recipients in US USC  
2023 Graduate School Research Award USC  
2022 Viterbi & Graduate School Fellowship USC  
2022 EECS Honors UC Berkeley  
- 80 recipients in CS and EECS graduating class  
2021 SURF Rose Hills Independent Fellowship UC Berkeley  
- 37 recipients in UC Berkeley

### Publications

#### Conferences

- 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

### Media Coverage

Jul 2023 USC Computer Science Students Awarded NSF Graduate Research Fellowships USC Press  
Jun 2022 USC Invests \$1 Billion into Advancing Computing Research Curriculum Spectrum News

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## Teaching Experience

### Teaching at USC

Fall 2022 Teaching Assistant in Intro to Scratch in CS@SC Program and LA Unified School District  
- Introduced K-12 students from underrepresented backgrounds to programming.

### Teaching at 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 Academic Intern in Principles and Techniques of Data Science, DS100/200 (Grad/UG level)

Spring 2021 Tutor in Adaptive Instruction Methods in Computer Science, CS370 (undergraduate level)  
- Received maximum scores for knowledgeability, supportiveness, and clarity from 98% of students.

Fall 2020 Academic Intern in Machine Structures, CS61C (UG level)

Spring 2020 Academic Intern in Data Structures, CS61B (UG level)

Fall 2019 Academic Intern in Structure and Interpretation of Computer Programs, CS61A (UG level)

Spring 2019 Academic Intern in Foundations of Data Science, Data8 (UG level)

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## Outreach Activities

2021-Present Advisor for the Office of Undergraduate Research and Scholarships *UC Berkeley*  
- Promoted undergraduate research and scholarships through mentoring, workshops, and outreach at campus-wide events, interacting with 300+ students on average per semester.  
- Hosted 100+ one-on-one student advising appointments and 20+ invited workshops:  
    - Undergraduate Research Apprenticeship Program (URAP) Info Session (Fa'23)  
    - Society for Women Engineers (SWE) workshop on research, funding, graduate school (Sp'23)  
    - Summer Opportunities Fair workshop (Sp'22)  
    - College of Letters & Science Sophomore Success workshop (Fa'21)

2023 Ambassador for Engaging Girls in STEM with LA County Office of Education *USC*  
- Encouraged and inspired 500+ middle and high school girls to pursue STEM careers.

2019 Golden Bear Orientation Leader for New Student Services *UC Berkeley*

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## Student Mentoring

Status	Name	Institution	Years	Next
Undergrad	Leyland Yang	USC	2023	- USC Provost Fellowship
Undergrad	Brian Liu	USC	2023	
Undergrad	Cathy Ma	USC	2023	
Undergrad/MS	Angela Xu	USC	2023	
Undergrad	Amy Zhang	USC	2022-2023	

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## Talks and Presentations

### Research Talks

Nov 2023 **TBD**. WiSE STEM Bytes Seminar, USC.

Mar 2023 **AI for Health: Oncology Decision Support in Ovarian Cancer**. WiSE STEM Bytes Seminar, USC.

### Paper Presentations and Conferences and Symposiums

Nov 2023 **Transferable and Interpretable Treatment Effectiveness Prediction for Ovarian Cancer**. AMIA'23.

Aug 2023 **Transferable and Interpretable Treatment Effectiveness Prediction for Ovarian Cancer**. KDD'23.

Mar 2021 **ReachSplitter3D: Automated Behavioral Classification of Whole-Arm 3-D Kinematics in Rats**. SURF Conference, UC Berkeley.

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## Academic Service

2023 Student Volunteer at Knowledge Discovery and Data Mining (KDD)

2023 Student Volunteer at USC Machine Learning Center Deep Learning Summer School