Emily T. Nguyen

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Education

Aug 2022-Present	Ph.D. in Computer Science	**University of Southern California (USC)**
2018-2022	B.A. in Computer Science	**University of California, Berkeley (UC Berkeley)**

Research Experience

Jun 2024	Research Assistant (Present) - Advisor: Jim Collins	**Broad Institute of MIT and Harvard** Infectious Disease & Microbiome Program
Aug 2022	Research Assistant (Present) - Advisor: Yan Liu	**University of Southern California** Department of Computer Science
Jan 2020	Research Affiliate (32 months) - Advisor: Kristofer Bouchard	**Lawrence Berkeley National Laboratory** Computational Biosciences Division
Jun 2021	Research Apprentice (12 months) - Advisor: Roy-Ben Shalom	**University of California, Davis** MIND Institute
Aug 2019	Research Apprentice (23 months) - Mentor: Roy-Ben Shalom; Supervisor: Kevin Bender	**University of California, San Fransisco** 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.

Teaching Experience

USC

Sp 2024-Present	Mentor in Google Artificial Intelligence x Viterbi LA Community Education 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)

Leadership Activities

Jan 2024-Present	Student advisory member for Viterbi K-12 STEM Center AI initiative	*USC*
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*
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*

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