

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: Jim Collins
Aug 2022 Research Fellow (Present)
- 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

Broad Institute of MIT and Harvard
Infectious Disease & Microbiome Program
University of Southern California
Department of Computer Science
Lawrence Berkeley National Laboratory
Computational Biosciences Division
University of California, Davis
MIND Institute
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) *USC*
- Field of Study: Comp/IS/Eng - Machine Learning
2023, 2024 Graduate School Research Award *USC*
2022 Viterbi & Graduate School Fellowship *USC*
2022 Honors Program in (EECS) Electrical Engineering and Computer Sciences *UC Berkeley*
- Emphasis: Computational Neuroscience
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