

Emily T. Nguyen

✉ emilyn98@usc.edu  www.linkedin.com/in/ennsk8  <https://eemokey.github.io>

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
Interdisciplinary Studies

Aug 2019 Research Apprentice (23 months)

University of California, San Francisco

- Mentor: Dr. Roy-Ben Shalom; Supervisor: Dr. Kevin Bender 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
- Emphasis: Computational Neuroscience

UC Berkeley

2021 SURF \$5000 Rose Hills Independent Fellowship

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

- Fall 2024 Mentor for Capstone Projects for 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

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