

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

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

Honors and Awards

2024	Excellence in Science Communication for Social Good Award	<i>USC</i>
2024	Undergraduate Mentoring Research Award	<i>USC</i>
2024	Best Oral Presentation Award, USC Pathology Conference	<i>USC</i>
2023	NSF GRFP (National Science Foundation Graduate Fellowship)	<i>USC</i>
	- Field of Study: Comp/IS/Eng - Machine Learning	
2023, 2024	Graduate School Research Award	<i>USC</i>
2022	Viterbi & Graduate School Fellowship	<i>USC</i>
2022	Honors Program in (EECS) Electrical Engineering and Computer Sciences	<i>UC Berkeley</i>
	- Emphasis: Computational Neuroscience	
2021	SURF \$5000 Rose Hills Independent Fellowship	<i>UC Berkeley</i>
2016	U.S. Figure Skating Double Gold Medalist	

Scholarship

Conference Papers

2024 [C3]	Oncology Decision Support: AI-Based Pathomics to Identify Platinum-Resistant Epithelial Ovarian Cancer	
	Multimodal Deep Learning.	
	<i>Emily Nguyen, Zijun Cui, Joseph Carlson, Yan Liu.</i>	
	American Medical Informatics Association (AMIA), 2024.	
2023 [C2]	Transferable and Interpretable Treatment Effectiveness Prediction for Ovarian Cancer via Multimodal Deep Learning.	
	<i>Emily Nguyen, Zijun Cui, James Enouen, Georgia Kokaraki, Joseph Carlson, Yan Liu.</i>	
	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, <i>Emily Nguyen</i> , Kristofer Bouchard.	

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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

Research Presentations

Apr 2024 Treatment Effectiveness Prediction via Multimodal Deep Learning, CRA-WP Grad Cohort for Women.

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)

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 Coach and choreographer at IceTown Carlsbad Skating Center

2014-2016 Assistant Coach at IceTown Carlsbad Skating Center

Leadership Activities

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

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- Aug 2023-2024 Facilitator for the Engineering in Society Program Ethos Discussions *USC*
- Aug 2021-Jan 2025 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*

Academic Service and Mentoring

- Mar-Dec 2024 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: Alaba Alabaweh (CS490), Brian Liu

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