

# 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 Assistant (Present)   **University of Southern California**  
- Advisor: Yan Liu   Department of Computer Science  
Jan 2020 Research Affiliate (32 months)   **Lawrence Berkeley National Laboratory**  
- Advisor: Kristofer Bouchard   Computational Biosciences Division  
Jun 2021 Research Apprentice (12 months)   **University of California, Davis**  
- Advisor: Roy-Ben Shalom   MIND Institute  
Aug 2019 Research Apprentice (23 months)   **University of California, San Francisco**  
- Mentor: Roy-Ben Shalom; Supervisor: Kevin Bender   Department of Neurology

## Honors and Awards

2023 NSF GRFP (National Science Foundation Graduate Fellowship)   *USC*  
- Field of Study: Comp/IS/Eng - Machine Learning  
2023 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*  
2016 U.S. Figure Skating Double Gold Medalist  
2013 U.S. Figure Skating Gold Medalist

## 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

### Research Presentations

Mar 2024 Treatment Effectiveness Prediction via Multimodal Deep Learning, USC Pathology Conference. (*Best Oral Presentation Award*)

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- 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.

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## 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)

### Figure Skating Coaching

- 2018-Present Private coach for figure skating and hockey lessons (all levels)
- 2014-2018 Figure Skating Coach at IceTown Carlsbad Skating Center
- 2014-2016 Head Assistant Coach at IceTown Carlsbad Skating Center

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## 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 Head 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*

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## Academic Service and Mentoring

- Aug 2023 Volunteer at Knowledge Discovery and Data Mining Conference (KDD)
- Jun 2023 Volunteer at USC Machine Learning Center Deep Learning Summer School
- 2022-Present Student Mentoring: Angela Xu, Leyland Yang, Brian Liu, Alaba Alabaweh