SARAH CHEN

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EDUCATION

Master of Science in Computer Science

September 2023 - May 2025 (Expected)

University of California, Berkeley | GPA: 3.85/4.0

- Thesis: "Multimodal Learning for Medical Image Analysis Using Transformer Architectures"
- Relevant Coursework: Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, Statistical Learning Theory

Bachelor of Science in Computer Science

September 2019 - May 2023

University of Washington | GPA: 3.78/4.0 | Magna Cum Laude

- Minor in Mathematics
- Honors Thesis: "Attention Mechanisms in Neural Machine Translation"

RESEARCH EXPERIENCE

Graduate Research Assistant

June 2023 - Present

UC Berkeley AI Research Lab

- Developing novel transformer-based architectures for combining CT and MRI scans to improve diagnostic accuracy
- Published 1 first-author paper at MICCAI 2024, 1 co-authored paper at NeurIPS 2024
- Collaborated with UCSF Medical Center on clinical validation of models

Undergraduate Research Assistant

January 2022 - May 2023

UW Natural Language Processing Lab

- Investigated attention visualization techniques for interpretable machine translation
- Contributed to open-source codebase used by 500+ researchers
- Presented findings at undergraduate research symposium

Summer Research Intern

June 2022 - September 2022

Microsoft Research

- Worked on few-shot learning approaches for low-resource language translation
- Implemented and evaluated meta-learning algorithms on multilingual datasets
- Mentored by Dr. James Liu, Principal Researcher

PUBLICATIONS

1. **Chen, S.**, Rodriguez, M., & Park, J. (2024). "Cross-Modal Fusion Transformers for Medical Image Diagnosis." *International Conference on Medical Image Computing and Computer-Assisted Intervention (MICCAI)*.

2. Kumar, A., **Chen, S.**, & Williams, R. (2024). "Efficient Attention Mechanisms for Long-Context Processing." *Conference on Neural Information Processing Systems (NeurIPS)*.

3. **Chen, S.** & Thompson, L. (2023). "Visualizing Attention: Interpretability in Neural Machine Translation." *Undergraduate Research Journal*, 15(2), 45-62.

TECHNICAL SKILLS

Programming Languages:	Python (expert), C++, Java, R, SQL
ML/AI Frameworks:	PyTorch, TensorFlow, Hugging Face, scikit-learn, JAX
Tools & Technologies:	Git, Docker, Weights & Biases, SLURM, AWS, Google Cloud
Areas of Expertise:	Deep Learning, Computer Vision, NLP, Medical AI, Multimodal Learning

HONORS & AWARDS

- NSF Graduate Research Fellowship Honorable Mention (2024)
- UC Berkeley Graduate Fellowship (2023-2024)
- Best Paper Award, UW Undergraduate Research Symposium (2023)
- Dean's List (All quarters, 2019-2023)

TEACHING EXPERIENCE

Graduate Student Instructor

Fall 2024

UC Berkeley CS 189: Introduction to Machine Learning

- Led weekly discussion sections for 40 students
- Held office hours and graded assignments
- Received 4.8/5.0 student evaluation rating

LEADERSHIP & SERVICE

- Women in Computer Science, Berkeley Chapter - Vice President (2024-Present)
- Reviewer for CVPR 2025, ICCV 2025
- Volunteer Tutor, Code.org K-12 outreach program (2021-Present)

RESEARCH INTERESTS

I am passionate about developing AI systems that can positively impact healthcare. My research focuses on multimodal deep learning, particularly combining different medical imaging modalities to improve diagnostic accuracy and clinical decision-making. I'm interested in exploring foundation models for medical imaging, interpretable and trustworthy AI for healthcare, few-shot and transfer learning in low-data medical domains, and human-AI collaboration in clinical settings.

I am seeking a PhD advisor who values interdisciplinary collaboration, rigorous methodology, and real-world impact. I thrive in collaborative research environments and am excited to contribute to a lab that bridges AI and healthcare.