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Alex Chen

PhD Candidate in Computer Science

Education

2022–Present **PhD in Computer Science**, *Stanford University*, Stanford, CA, USA
Expected Graduation: May 2026. Advisor: Prof. Evelyn Reed. Specialization: Machine Learning, Natural Language Processing.

2020–2022 **M.S. in Computer Science**, *Stanford University*, Stanford, CA, USA
Thesis: "Advancements in Few-Shot Learning for Specialized Domains"

2016–2020 **B.S. in Computer Science**, *University of California, Berkeley*, Berkeley, CA, USA
Summa Cum Laude, Minor in Statistics

Awards and Honors

2023 [COMPANY] PhD Fellowship (Fictive)

2022 Stanford Graduate Fellowship

2020 Outstanding Undergraduate Researcher Award, UC Berkeley

2019 Dean's High Honors List (Multiple Semesters), UC Berkeley

2018 ACM ICPC Regional Competitor

Academic Research Experiences

Summer 2024 **Student Researcher (Anticipated)**, *[COMPANY] Research*, Mountain View, CA (or Remote)
Working with [COMPANY] research scientists on open-ended exploratory projects in advanced machine learning algorithms and their applications.

2022–Present **Graduate Research Assistant**, *Stanford AI Lab (SAIL)*, Stanford, CA, USA

- Conducting research on robust and interpretable Natural Language Understanding models, focusing on cross-lingual transfer learning and commonsense reasoning.
- Developing novel deep learning architectures for efficient information extraction from large-scale unstructured text data.
- Collaborating with a team of 5 researchers, contributing to algorithm design, experimental setup, and manuscript preparation.
- Mentored junior PhD students in experimental design and paper writing.

2021–2022 **Master's Thesis Researcher**, *Stanford NLP Group*, Stanford, CA, USA

- Investigated and developed few-shot learning techniques for text classification in specialized domains with limited labeled data.
- Implemented and benchmarked various meta-learning algorithms, achieving state-of-the-art results on several internal datasets.

2019–2020 **Undergraduate Research Assistant**, *Berkeley AI Research (BAIR) Lab*, Berkeley, CA, USA

- Assisted Prof. Ben Carter with projects on adversarial attacks and defenses for computer vision models.
- Contributed to the development of a new dataset for evaluating model robustness.

Publications

Chen, A., Lee, S., & Reed, E. (2024). "Cross-Lingual Alignment Strategies for Zero-Shot Commonsense Reasoning." *Proceedings of the Annual Meeting of the Association for Computational Linguistics (ACL)*. (To Appear)

Chen, A., & Reed, E. (2023). "Efficient Transformers for Low-Resource Language Understanding." *Findings of Empirical Methods in Natural Language Processing (EMNLP)*. pp. 1234-1245.

Kim, J., **Chen, A.**, & Davis, M. (2023). "Probing the Limits of Pre-trained Language Models in Scientific Literature." *Workshop on Scholarly Document Processing, NeurIPS*.

Chen, A. (2022). "Advancements in Few-Shot Learning for Specialized Domains." *Stanford University M.S. Thesis Archive*.

Carter, B., **Chen, A.**, & Zhao, L. (2020). "A Benchmark for Evaluating Robustness of Object Detection Models to Synthetic Perturbations." *arXiv preprint arXiv:2005.XXXXX*.

Industry Experience

Summer 2023 **Machine Learning Research Intern**, *Leading AI Startup X*, Palo Alto, CA, USA

- Designed and implemented a novel recommendation system using graph neural networks, resulting in a 15% improvement in user engagement metrics.
- Collaborated with software engineering teams to integrate the ML model into the production environment.
- Presented research findings and model performance to senior leadership.

Internship Experience

Summer 2019 **Software Engineering Intern**, *Tech Solutions Inc.*, San Francisco, CA, USA

- Developed and tested new features for a large-scale data analytics platform using Python and Java.
- Participated in agile development sprints, code reviews, and system design discussions.
- Gained experience with cloud computing platforms (AWS).

Teaching Experience

Spring 2023 **Teaching Assistant**, *CS224N: Natural Language Processing with Deep Learning*, Stanford University
- Led weekly discussion sections for 30+ students, explaining complex concepts and guiding them through assignments.
- Graded homework, quizzes, and exams, providing constructive feedback.
- Held office hours and assisted students with project development.

Fall 2022 **Teaching Assistant**, *CS109: Introduction to Probability for Computer Scientists*, Stanford University
- Assisted in preparing course materials and grading assignments.
- Conducted review sessions before midterms and final exams.

Speaker Experience

2023 **Presenter, "Efficient Transformers for Low-Resource Language Understanding"**, *EMNLP 2023 Conference, Singapore*

2023 **Guest Lecturer, "Introduction to Meta-Learning"**, *Stanford CS330: Deep Multi-Task and Meta Learning*

2022 **Poster Presenter, "Few-Shot Learning for Medical Text Classification"**, *Bay Area NLP Meetup*

Academic Service

2023–Present **Reviewer**, *ACL, EMNLP, NeurIPS, ICML Conferences*

2023 **Volunteer**, *NeurIPS 2023 Conference, New Orleans*

2022–2023 **PhD Admissions Committee Student Representative**, *Stanford Computer Science Department*

2021 **Organizer**, *Stanford AI Lab Seminar Series*

DEI Panels

2024 **Panelist**, *"Navigating Academia as an Underrepresented PhD Student"*, Stanford School of Engineering DEI Summit

2023 **Participant**, *"Building Inclusive Research Environments" Workshop*, Stanford University

News and Other Coverage

2023 **"Stanford Researchers Tackle Language Barriers in AI"**, *Stanford Engineering News (Fictive article mentioning our EMNLP paper)*

2020 **"Berkeley Undergrad Shines in AI Robustness Research"**, *The Daily Californian (Fictive article about BAIR Lab project)*

Other Activities

2022–Present **Member**, *Stanford Alpine Club, Stanford Cycling Team*

2016–2020 **Volunteer Tutor**, *Berkeley High School (Mathematics and Computer Science)*

Proficient in English (Fluent), Mandarin (Conversational)

Programming Languages: Python (Expert), Java (Proficient), C++ (Intermediate), JavaScript (Basic)

Frameworks/Libraries: TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, Hugging Face Transformers

Developer Tools: Git, Docker, SLURM, AWS, GCP