

Dr. Alex Chen

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Computer science researcher specializing in machine learning and natural language processing with 8 years of experience in developing novel algorithms and publishing in top-tier venues. PhD in Computer Science with focus on deep learning for language understanding. Passionate about advancing the state-of-the-art in AI and mentoring graduate students.

Experience

Postdoctoral Researcher

Sep 2020 – Present

AI Research Lab, MIT, Cambridge, MA

- Developed novel transformer architectures improving NLP performance by 15% on benchmark tasks
- Published 8 papers in top conferences (NeurIPS, ICML, ACL) as first author
- Mentored 3 PhD students and 5 master's students on research projects
- Secured \$500K research grant from NSF for language model interpretability study

Research Scientist Intern

Summer 2019

Google Research, Mountain View, CA

- Researched efficient attention mechanisms for large-scale language models
- Contributed to open-source NLP library used by 10K+ researchers
- Co-authored paper accepted at NeurIPS 2020

Education

Ph.D. in Computer Science

May 2020

Stanford University, Stanford, CA – Dissertation: “Efficient Attention Mechanisms for Neural Language Models”

M.S. in Computer Science

May 2016

University of California, Berkeley, CA – GPA: 3.95/4.0

B.S. in Computer Science and Mathematics

May 2014

Carnegie Mellon University, Pittsburgh, PA – Summa Cum Laude, GPA: 3.98/4.0

Awards & Honors

Outstanding Paper Award

2022

NeurIPS (Neural Information Processing Systems)

Best Thesis Award

2020

Stanford Computer Science Department

NSF Graduate Research Fellowship

2016–2019

National Science Foundation

Outstanding Graduate Student Award

2019

Stanford University

Skills

Research Areas: Machine Learning, Natural Language Processing, Deep Learning, Transfer Learning

Programming: Python, C++, CUDA, R, MATLAB

ML Frameworks: PyTorch, TensorFlow, JAX, Hugging Face Transformers

Research Tools: Jupyter, Git, LaTeX, Weights & Biases, MLflow

Cloud Computing: AWS, Google Cloud, Slurm (HPC clusters)

Other: Technical Writing, Grant Writing, Academic Presentation, Student Mentoring

Publications

A. Chen, B. Wang, C. Li. “Efficient Transformers with Linear Attention.” *Conference on Neural Information Processing Systems (NeurIPS)*, 2022. **Outstanding Paper Award**.

A. Chen, D. Kumar. “Cross-lingual Transfer Learning for Low-Resource Languages.” *Annual Meeting of the Association for Computational Linguistics (ACL)*, 2021.

E. Martinez, **A. Chen**, F. Zhang. “Interpretable Attention Mechanisms in Neural Networks.” *International Conference on Machine Learning (ICML)*, 2021.

A. Chen, G. Thompson. “Meta-Learning for Few-Shot Natural Language Understanding.” *Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2020.

A. Chen, H. Park, I. Ahmed. “Attention is All You Need: A Survey.” *Journal of Machine Learning Research (JMLR)*, Vol. 21, No. 1, Pages 1-45, 2019.