

# 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

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### 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

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### 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

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### 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

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**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**

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**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.