

# Dr. Michael Chen, Ph.D.

Associate Professor of Computer Science  
Department of Computer Science • MIT • Cambridge, MA 02139  
m.chen@mit.edu • +1 (617) 555-0123 • <https://web.mit.edu/~mchen>

## RESEARCH INTERESTS

Machine Learning, Natural Language Processing, Deep Learning Architectures, Neural Machine Translation, Transfer Learning, Few-Shot Learning, Multimodal AI Systems

## EDUCATION

### Ph.D. in Computer Science, Stanford University, 2015

Dissertation: "Neural Approaches to Cross-Lingual Transfer Learning in Low-Resource Languages"  
Advisor: Prof. Andrew Ng

### M.S. in Computer Science, Stanford University, 2012

### B.S. in Computer Science, UC Berkeley, 2010

Summa Cum Laude, Phi Beta Kappa

## ACADEMIC POSITIONS

<b>Associate Professor</b> Massachusetts Institute of Technology, Department of Computer Science	2021 - Present
<b>Assistant Professor</b> Massachusetts Institute of Technology, Department of Computer Science	2016 - 2021
<b>Postdoctoral Researcher</b> Google Brain, Mountain View, CA	2015 - 2016

## SELECTED PUBLICATIONS

(\* indicates equal contribution, † indicates corresponding author)

Chen, M.\*, Zhang, L.\*, and Smith, J.† "Efficient Few-Shot Learning through Adaptive Meta-Learning Architectures." Nature Machine Intelligence, vol. 5, pp. 234-247, 2024.

XXXXXXXXXXXXXXXXXXXX

Wang, Y., Chen, M.†, and Liu, H. "Multimodal Transformer Networks for Vision-Language Understanding." NeurIPS 2022, pp. 8934-8945, 2022.

Chen, M., Thompson, R., and Davis, K. "Attention Mechanisms for Contextual Word Embeddings in Neural Networks." ICML 2021, pp. 2134-2146, 2021.

Chen, M.† and Ng, A. "Transfer Learning Approaches for Neural Machine Translation in Low-Resource Settings." Computational Linguistics, vol. 46, no. 3, pp. 567-592, 2020.

Lee, S., Chen, M., and Patel, N. "Deep Learning for Sentiment Analysis in Multilingual Social Media Data." EMNLP 2019, pp. 3421-3432, 2019.

Chen, M., Garcia, P., and Anderson, T. "Improving Neural Network Generalization through Curriculum Learning." ICLR 2018, pp. 1123-1135, 2018.

Chen, M., Brown, K., and Wilson, J. "Recurrent Neural Networks for Sequence-to-Sequence Learning in Machine Translation." Proceedings of ACL 2017, pp. 892-903, 2017.

Martinez, L., Chen, M.\*, and Johnson, R.\* "Word Embeddings for Cross-Lingual Information Retrieval." SIGIR 2016, pp. 645-654, 2016.

## GRANTS & FUNDING

National Science Foundation CAREER Award (2022-2027)

"Efficient Few-Shot Learning for Neural Machine Translation" • \$500,000

Google Research Award (2021-2023)

"Multimodal Transfer Learning for Vision-Language Tasks" • \$100,000

Amazon Research Award (2020-2022)

"Neural Approaches to Cross-Lingual Transfer" • \$75,000

NSF Research Grant (2018-2021)

"Deep Learning for Low-Resource Languages" • \$350,000 (Co-PI)

## TEACHING EXPERIENCE

CS 6.867: Machine Learning (Graduate) • MIT • Fall 2016-Present

CS 6.864: Advanced Natural Language Processing (Graduate) • MIT • Spring 2017-Present

CS 6.034: Artificial Intelligence (Undergraduate) • MIT • Fall 2018-2022

## GRADUATE STUDENTS ADVISED

Ph.D. Students (Current):

- Sarah Johnson (2021-Present) - Few-Shot Learning for NLP
- David Kim (2022-Present) - Multimodal AI Systems
- Emily Rodriguez (2023-Present) - Neural Machine Translation

Ph.D. Students (Graduated):

- Lisa Zhang (2018-2023) - Now Assistant Professor at Carnegie Mellon University
- Alex Patel (2017-2022) - Now Research Scientist at DeepMind

Master's Students: 12 graduated (2016-2024)

## HONORS & AWARDS

- ACL Best Paper Award, Association for Computational Linguistics (2023)
- NSF CAREER Award, National Science Foundation (2022)
- MIT Junior Faculty Teaching Award (2020)
- Google Faculty Research Award (2021)
- Outstanding Dissertation Award, Stanford Computer Science (2016)
- ICML Travel Award (2014, 2015)
- Stanford Graduate Fellowship (2010-2012)

## PROFESSIONAL SERVICE

Conference Organization:

- Area Chair, ACL (2022, 2023, 2024)
- Senior Program Committee, AAAI (2021-2024)
- Workshop Co-Chair, EMNLP (2022)
- Tutorial Chair, NAACL (2021)

Program Committee Member:

- NeurIPS (2017-2024), ICML (2018-2024), ICLR (2019-2024)
- ACL (2017-2024), EMNLP (2017-2024), NAACL (2018-2024)

Journal Reviewing:

- Computational Linguistics, Journal of Machine Learning Research
- Transactions of ACL, IEEE Transactions on Neural Networks

Department Service:

- Graduate Admissions Committee, MIT CS (2020-2023)
- Faculty Search Committee, MIT CS (2021-2022)
- Curriculum Development Committee, MIT CS (2019-2021)

## **SELECTED INVITED TALKS**

- "Few-Shot Learning in Natural Language Processing" • Stanford AI Lab (2024)
- "Cross-Lingual Transfer Learning" • Google Research (2023)
- "Multimodal AI Systems" • Meta AI Research (2023)
- "Neural Machine Translation for Low-Resource Languages" • Microsoft Research (2022)
- "Deep Learning for NLP" • Carnegie Mellon University (2021)
- "Transfer Learning in Neural Networks" • UC Berkeley (2020)

## **TECHNICAL SKILLS**

Programming: Python, C++, Java, CUDA, PyTorch, TensorFlow, JAX, Hugging Face Transformers

Languages: English (Native), Mandarin Chinese (Native), Spanish (Intermediate)

## **PROFESSIONAL MEMBERSHIPS**

ACM (Association for Computing Machinery), IEEE (Institute of Electrical and Electronics Engineers), ACL (Association for Computational Linguistics), AAAI (Association for the Advancement of Artificial Intelligence)