

Zhili Feng

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EDUCATION	Ph.D. in Machine Learning Carnegie Mellon University	Aug 2019 - Present
	Master of Science in Computer Science University of Wisconsin-Madison Thesis: <i>On the Geometric and Statistical Interpretation of Data Augmentation</i>	Sept 2017 - May 2019
	Bachelor of Science in Computer Science University of Illinois at Urbana-Champaign Thesis: <i>A Combination of Statistical Model and Rule-based Approach to Temporal Extraction and Normalization</i>	Aug 2013 - May 2017

- PUBLICATION**
1. Zhili Feng, Dhananjay Ram, Cole Hawkins, Aditya Rawal, and Jinman Zhao. Sequence-level large language model training with noise contrastive preference optimization. *Work in progress*, 2023
 2. Zhili Feng, Anna Bair, and J Zico Kolter. Text descriptions are compressive and invariant representations for visual learning. *arXiv preprint arXiv:2307.04317*, 2023
 3. Zhili Feng, Ezra Winston, and J Zico Kolter. Monotone deep boltzmann machines. *Transactions on Machine Learning Research*, 2023
 4. Zhili Feng and J Zico Kolter. On the neural tangent kernel of equilibrium models, 2021
 5. Zhili Feng, Shaobo Han, and Simon S Du. Provable adaptation across multiway domains via representation learning. *arXiv preprint arXiv:2106.06657*, 2021
 6. Zhili Feng, Fred Roosta, and David P Woodruff. Non-psd matrix sketching with applications to regression and optimization. *arXiv preprint arXiv:2106.08544*, 2021
 7. Jon Ergun, Zhili Feng, Sandeep Silwal, David P Woodruff, and Samson Zhou. Learning-augmented k -means clustering. *arXiv preprint arXiv:2110.14094*, 2021
 8. Zhili Feng, Praneeth Kacham, and David Woodruff. Dimensionality reduction for the sum-of-distances metric. In *International Conference on Machine Learning*, pages 3220–3229. PMLR, 2021
 9. Shashank Rajput, Zhili Feng, Zachary B. Charles, Po-Ling Loh, and Dimitris S. Papailiopoulos. Does data augmentation lead to positive margin? In *Proceedings of the 36th International Conference on Machine Learning, ICML 2019, 9-15 June 2019, Long Beach, California, USA*, pages 5321–5330, 2019
 10. Z. Feng and P. Loh. Online learning with graph-structured feedback against adaptive adversaries. In *2018 IEEE International Symposium on Information Theory (ISIT)*, pages 931–935, June 2018
 11. Qiang Ning, Zhili Feng, Hao Wu, and Dan Roth. Joint Reasoning for Temporal and Causal Relations. In *Proc. of the Annual Meeting of the Association for Computational Linguistics (ACL)*, pages 2278–2288, Melbourne, Australia, 7 2018. Association for Computational Linguistics

12. Qiang Ning, Ben Zhou, Zhili Feng, Haoruo Peng, and Dan Roth. CogCompTime: A Tool for Understanding Time in Natural Language. In *EMNLP (Demo Track)*, Brussels, Belgium, 11 2018. Association for Computational Linguistics
13. Daniel Khoshabi, Mark Sammons, Ben Zhou, Tom Redman, Christos Christodoulopoulos, Vivek Srikumar, Nicholas Rizzolo, Lev Ratinov, Guanheng Luo, Quang Do, Chen-Tse Tsai, Subhro Roy, Stephen Mayhew, Zhili Feng, John Wieting, Xiaodong Yu, Yangqiu Song, Shashank Gupta, Shyam Upadhyay, Naveen Arivazhagan, Qiang Ning, Shaoshi Ling, and Dan Roth. CogCompNLP: Your Swiss Army Knife for NLP. In *Proc. of the International Conference on Language Resources and Evaluation (LREC)*, 2018
14. Qiang Ning, Zhili Feng, and Dan Roth. A structured learning approach to temporal relation extraction. In *EMNLP*, Copenhagen, Denmark, 9 2017

PROFESSIONAL EXPERIENCE **Applied Scientist Intern** Jun 2023 - Aug 2023
 Amazon, New York, NY

Machine Learning Research Intern Jun 2021 - Aug 2021
 Bosch, Pittsburgh, PA

Research Intern Sept 2020 - Dec 2020
 NEC Lab America, remote

Software Engineering Intern May 2017 - Aug 2017
 Facebook, Menlo Park, CA

Software Engineering Intern May 2016 - Aug 2016
 Facebook, Menlo Park, CA

Software Engineering Intern May 2015 - Aug 2015
 Marketo, San Mateo, CA

HONOR & AWARDS

Dean's List
 University of Illinois at Urbana-Champaign
 • Fall 2013, Spring 2014, Fall 2014, Spring 2015, Spring 2016

Edmund J James Scholar
 University of Illinois at Urbana-Champaign
 • Academic Year 2013-2014