

Xiaohan Chen

Contact

E-mail: xiaohan.chen@utexas.edu

Homepage: xiaohanchen.com

Education Background

University of Texas at Austin

Ph.D. in Electrical and Computer Engineering

Visual Informatics Group

Supervisor: Prof. Zhangyang (Atlas) Wang

Austin, TX, U.S.

Aug, 2020 — Present

Texas A&M University

Ph.D. in Computer Science

Supervisor: Prof. Zhangyang (Atlas) Wang

College Station, TX, U.S.

Aug, 2017 — Aug, 2020

University of Science and Technology of China

B.S. in Mathematics and Applied Mathematics

B.E. in Computer Science (Double Degree)

Hefei, Anhui, China

Sep, 2013 — Jun, 2017

Professional Experience

Research Intern

Microsoft Cloud & AI, Bellevue, WA, U.S.

Supervisor: Dr. Yu Cheng and Dr. Zhe Gan

Jun, 2020 — Aug, 2020

Research Intern

Max Planck Institute for Intelligent Systems, Tübingen, Germany

Supervisor: Dr. Krikamol Muandet and Dr. Siyu Tang

Jun, 2019 — Nov, 2019

Research Interests

- *Sparse Optimization and Inverse Problems*
- *Learning to Optimize, and Meta Learning*
- *Efficient Deep Learning, and Sparse Neural Networks (Lottery Ticket Hypothesis)*

Conference Publications

* The authors equally contributed to the paper.

1. Several double blind submissions under NeurIPS review.
2. H. Heaton, **X. Chen**, Z. Wang, W. Yin, “Safeguarded Learned Convex Optimization”, under review in *Journal of Machine Learning Research* (JMLR).
3. Z. Huo, A. Pakbin, **X. Chen**, N. Hurley, Y. Yuan, X. Qian, Z. Wang, S. Huang, B. Mortazavi, “Uncertainty Quantification for Deep Context-Aware Mobile Activity Recognition and Unknown Context Discovery”, *International Conference on Artificial Intelligence and Statistics (AISTATS)*, 2020.
4. **X. Chen***, Y. Zhao*, Y. Wang, C. Li, Y. Xie, Z. Wang, Y. Lin, “SmartExchange: Trading Higher-cost Memory Storage/Access for Lower-cost Computation”, *IEEE/ACM International Symposium on Computer Architecture (ISCA)*, 2020.

5. H. You, C. Li, P. Xu, Y. Fu, **X. Chen**, Y. Lin, Z. Wang, R. Baraniuk , “Drawing Early-Bird Tickets: Toward More Efficient Training of Deep Networks”, *International Conference on Learning Representations (ICLR)*, 2020.
6. **X. Chen***, Z. Jiang*, Y. Wang*, P. Xu, Y. Zhao, Y. Lin, Z. Wang, “E2-Train: Energy-Efficient Deep Network Training with Data-, Model-, and Algorithm-Level Saving”, *In Proceedings of Advances in Neural Information Processing Systems (NeurIPS)*, 2019.
7. E. Ryu, J. Liu, S. Wang, **X. Chen**, Z. Wang, W. Yin, “Plug-and-Play Methods Provably Converge with Properly Trained Denoisers”, *International Conference on Machine Learning (ICML)*, 2019.
8. **X. Chen***, J. Liu*, Z. Wang, W. Yin, “ALISTA: Analytic Weights Are As Good As Learned Weights in LISTA”, *International Conference on Learning Representations (ICLR)*, 2019.
9. **X. Chen***, J. Liu*, Z. Wang, W. Yin, “Theoretical Linear Convergence of Unfolded ISTA and Its Practical Weights and Thresholds”, *In Proceedings of Advances in Neural Information Processing Systems (NeurIPS)*, 2018.
10. N. Bansal, **X. Chen**, Z. Wang, “Can We Gain More from Orthogonality Regularizations in Training Deep Networks?”, *In Proceedings of Advances in Neural Information Processing Systems (NeurIPS)*, 2018.

Honors and Awards

Scholarships

- | | |
|---|-----------|
| – ICLR Travel Award | Mar, 2019 |
| – NeurIPS Travel Award | Oct, 2018 |
| – AAAI Student Scholarship | Dec, 2017 |
| – Outstanding New Student Award, Top Class Award | Sep, 2013 |

Others

- | | |
|--|-----------|
| – COMAP’s Mathematical Contest in Modeling (MCM), Honorable Mention | Apr, 2016 |
| – RoboGame of USTC, the 2nd place | Nov, 2015 |
| – Outstanding Young Volunteer, USTC | Jul, 2014 |

Service and Teaching

- *Reviewer*: NeurIPS (2019, 2020), CVPR (2020, 2021), ICML (2020), ICLR (2020), ECCV (2020), ICCV (2019), ACCV (2020), WACV (2019, 2020, 2021)
- *Teaching Assistant*: CSCE 633, Machine Learning, Texas A&M University (2018, 2019)
- *Student Volunteer*: AAAI 2018

Technical Skills

Deep Learning Frameworks	PyTorch, TensorFlow, MXNet
Computer Languages	C, C++, Python, Matlab
Tools	Git, Vim, Visual Studio, Mathematica
L^AT_EX	