

Xiaohan Chen

Contact

E-mail: chernxh@tamu.edu

Homepage: xiaohanchen.com

Office Address: Room 407, H.R. Bright Building, College Station, TX, 77843-3112

Education Background

Texas A&M University

Ph.D. in Computer Science

Supervisor: [Prof. Zhangyang \(Atlas\) Wang](#)

College Station, TX, U.S.

Aug, 2017 — present

University of Science and Technology of China

B.S. in Mathematics and Applied Mathematics

B.E. in Computer Science (Minor Degree)

Hefei, Anhui, China

Sep, 2013 — Jun, 2017

Professional Experience

Research Intern

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

Jun, 2020 — Aug, 2020

Research Assistant

The Department of Computer Science and Engineering

Texas A&M University, College Station, TX, U.S.

Supervisor: [Prof. Zhangyang \(Atlas\) Wang](#)

Jan, 2020 — May, 2020

Research Intern

Max Planck Institute for Intelligent Systems, Tübingen, Germany

Supervisor: [Dr. Krikamol Muandet](#) and [Dr. Siyu Tang](#)

Jun, 2019 — Nov, 2019

Teaching Assistant

The Department of Computer Science and Engineering

Texas A&M University, College Station, TX, U.S.

Courses: CSCE 633 - Machine Learning, Fall 2018 and Spring 2019

Instructors: [Prof. Bobak J. Mortazavi](#) and [Prof. Zhangyang \(Atlas\) Wang](#)

Aug 2018 — May, 2019

Research Assistant

The Department of Computer Science and Engineering

Texas A&M University, College Station, TX, U.S.

Supervisor: [Prof. Zhangyang \(Atlas\) Wang](#)

Aug, 2017 — Aug, 2018

Research Interests

- *Machine Learning*
 - *Sparse and low-rank models*: solving inverse problems via learning-based approaches with guarantees; sparse learning for energy-efficient models.
- *Deep Learning Theories*
- *Computer Vision*
- *Meta Learning*
- *Optimization*
 - *Sparse optimization*: iterative algorithms in sparse coding and compressive sensing.

Conference Publications

* The authors equally contributed to the paper.

1. Two new submissions to ICML 2020.
2. 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.
3. 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)*, 2019.
4. Z. Jiang*, Y. Wang*, **X. Chen***, 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.
5. 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.
6. J. Liu*, **X. Chen***, Z. Wang, W. Yin, “ALISTA: Analytic Weights Are As Good As Learned Weights in LISTA”, *International Conference on Learning Representations (ICLR)*, 2019.
7. **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.
8. 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

- | | |
|--|-----------|
| – Future Net, HUAWEI CodeCraft Coding Contest, Top 8 in East China | May, 2016 |
| – 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 |

Services

- *Reviewer*, ECCV 2020
- *Reviewer*, CVPR 2020
- *Reviewer*, ICLR 2020
- *Reviewer*, ICCV 2019
- *Reviewer*, IEEE Signal Processing Letters
- *Reviewer*, NeurIPS 2019
- *Student Volunteer*, AAAI 2018
- *Reviewer*, WACV 2019

Technical Skills

Computer Languages	C, C++, Python, Matlab
Protocols & APIs	XML, JSON
Databases	PostgreSQL
Tools	Git, Vim, Visual Studio, Mathematica
\LaTeX	