Zhibing Zhao

Ph.D.

Data & Applied Scientist at Microsoft
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Research Interests

- Learning to Rank
- Active Learning
- Statistical Inference
- Machine Translation

Education

2015–2020 **Ph.D., Computer Science**, *Rensselaer Polytechnic Institute*, Troy, NY, US.

2012–2014 **M.S., Electrical Engineering**, *University of Connecticut*, Storrs, CT, US.

2008–2012 **B.Eng., Electrical Engineering**, *Tsinghua University*, Beijing, China.

Experience

2020–Present **Data & Applied Scientist**, Microsoft, Bellevue, WA, US.
Learning ranking models for information retrieval

2015–2020 **Research Assistant**, Rensselaer Polytechnic Institute, Troy, NY, US.
Preference learning and aggregation

2019 Summer **Data and Applied Scientist Intern**, Microsoft, Bellevue, WA, US.
Information retrieval.

2018 Summer **Research Intern**, Microsoft Research Asia, Beijing, China.
Award of Excellence
Topic: neural machine translation.

2012–2014 **Research Assistant**, University of Connecticut, Storrs, CT, US.

2011–2012 **Research Assistant**, Tsinghua University, Beijing, China.

Publications

Archival Conference Papers

1. **Zhibing Zhao**, Yingce Xia, Tao Qin, Lirong Xia, and Tie-Yan Liu, "Dual Learning: Theoretical Study and an Algorithmic Extension", in *Proceedings of the 12th Asian Conference on Machine Learning* **(ACML-20)**.

2. **Zhibing Zhao** and Lirong Xia, "Learning Mixtures of Plackett-Luce Models from Structured Partial Orders", in *Proceedings of 33rd Conference on Neural Information Processing Systems* **(NeurIPS-19)**.

3. Ao Liu, **Zhibing Zhao**, Chao Liao, Pinyan Lu and Lirong Xia, "Learning Plackett-Luce Mixtures from Partial Preferences", in *Proceedings of 33rd AAAI Conference on Artificial Intelligence* **(AAAI-19)**.

4. Jun Wang, Sujoy Sikdar, Tyler Shepherd, **Zhibing Zhao**, Chunheng Jiang and Lirong Xia, "Practical Algorithms for STV and Ranked Pairs with Parallel Universes Tiebreaking", in *Proceedings of 33rd AAAI Conference on Artificial Intelligence* **(AAAI-19)**.

5. **Zhibing Zhao** Haoming Li, Junming Wang, Jeffrey Kephart, Nicholas Mattei, Hui Su, and Lirong Xia, "A Cost-Effective Framework for Preference Elicitation and Aggregation", in *Proceedings of the 34th Conference on Uncertainty in Artificial Intelligence* **(UAI-18)**.

6. **Zhibing Zhao** and Lirong Xia, "Composite Marginal Likelihood Methods for Random Utility Models", in *Proceedings of the 35th International Conference on Machine Learning* **(ICML-18)**.

7. **Zhibing Zhao**, Tristan Villamil, and Lirong Xia, "Learning Mixtures of Random Utility Models", in *Proceedings of the 32nd AAAI Conference on Artificial Intelligence* **(AAAI-18)**.

8. **Zhibing Zhao**, Peter Piech, and Lirong Xia, "Learning Mixtures of Plackett-Luce Models", in *Proceedings of the 33rd International Conference on Machine Learning* **(ICML-16)**.

9. **Zhibing Zhao**, Peng Zhang, Jun-Hong Cui, and Shengli Zhou, "Life-Oriented Control of Tidal Power Generation", *OCEANS*, 2013.

10. **Zhibing Zhao**, Yongdong Li, and Bo Dong, "Modeling and Control Strategy for Cascade Bi-directional DC/DC Converter in Microgrid", *IPEMC*, 2012.

11. Mo Li, Jiansheng Yuan and **Zhibing Zhao**, "Low-Voltage SPD Coordination Analysis", *APL*, 2011.

Journal Papers

12. Taofeek Orekan, **Zhibing Zhao**, Peng Zhang, Jian Zhang, Shengli Zhou, and Jun-Hong Cui, "Maximum Lifecycle Tracking for Tidal Energy Generation System", *Electric Power Components and Systems*, 2015.

13. Gengfeng Li, Peng Zhang, Peter B. Luh, Wenyuan Li, Zhaohong Bie, Camilo Serna, and **Zhibing Zhao**, "Risk Analysis for Distribution Systems in the Northeast U. S. Under Wind Storms", *IEEE Transactions on Power Systems*, 2014.

Presentations

1. "A Cost-Effective Framework for Preference Elicitation and Aggregation", poster at UAI-18 (Monterey, CA, US) and IBM AI Research Week 2019 (MA, US).

2. "Composite Marginal Likelihood Methods for Random Utility Models", oral and poster at ICML-18 (Stockholm, Sweden).

3. "Learning Mixtures of Random Utility Models", poster at AAAI-18 (New Orleans, Louisiana, US) and CAEC-17 (Cambridge, MA, US).

Professional Service

Reviewer for ICML-20, NeurIPS-20, PC member for AAAI-19, 20, reviewed papers for AAMAS-18, EC-18, and NeurIPS-18, 19