Mingyuan 'William' Zhang

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Research Interest

Machine learning and statistical learning theory, multiclass and multi-label classification, learning from noisy labels. I enjoy developing both theory and algorithms to solve problems of practical import.

Education

University of Pennsylvania — Philadelphia, Pennsylvania, USA
Ph.D. in Computer and Information Science, Advisor: Shivani Agarwal
GPA: 4.00/4.00 — 2018–Current

University of Michigan — Ann Arbor, Michigan, USA
B.S. in Honors Mathematics, Honors Statistics, Computer Science and Data Science
GPA: 3.92/4.00 — 2013–2018

Publications

1. Hangfeng He, **Mingyuan Zhang**, Qiang Ning, Dan Roth. Foreseeing the benefits of incidental supervision. In *Proceedings of the 2021 Conference on Empirical Methods in Natural Language Processing* (EMNLP), 2021. **Oral paper**.
2. **Mingyuan Zhang**, Jane Lee, Shivani Agarwal. Learning from Noisy Labels with No Change to the Training Process. In *Proceedings of the 38th International Conference on Machine Learning* (ICML), 2021.
3. **Mingyuan Zhang**, Shivani Agarwal. Bayes Consistency vs. H-Consistency: The Interplay between Surrogate Loss Functions and the Scoring Function Class. In *Advances in Neural Information Processing Systems* (NeurIPS), 2020. **Spotlight paper**.
4. **Mingyuan Zhang**, Harish Guruprasad Ramaswamy, Shivani Agarwal. Convex Calibrated Surrogates for the Multi-Label F-Measure. In *Proceedings of the 37th International Conference on Machine Learning* (ICML), 2020.

Academic Service

- **Conference Reviewer**
  NeurIPS 2021, ICLR 2022

Teaching

- **Head Teaching Assistant**, Machine Learning (CIS 520) — Spring 2020, Spring 2021
  University of Pennsylvania

Skills

- **Programming Languages:** Python, C/C++, Matlab, R, Java
- **Machine Learning:** scikit-learn, PyTorch, TensorFlow

Languages

- **Mandarin Chinese:** native
- **English:** fluent