

Wenyuan Zhao

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Personal Information

Major: Information Science & Learning Systems

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Short Biography

Wenyuan Zhao is a Ph.D. student at TAMU ECE, advised by Dr. Chao Tian. His research advances the general area of machine learning and information theory, where new algorithms are proposed dealing with diverse settings. Before joining TAMU, he obtained his M.S. in Communication Theory & Systems at UC San Diego in 2023. Before that, he obtained his B.E. in Information Engineering at Southeast University in 2021.

Research Interests

- **Uncertainty Quantification:** Identifying, quantifying, and reducing uncertainties in machine learning models and AI systems to determine the reliability of predictions.
- **Multimodal Learning:** The science and engineering of AI systems that can learn, reason, and interact with the world through integrating diverse data sources.
- **Information Theory:** Leveraging tools from information theory to understand and design algorithms in machine learning.

Academic Career

- Texas A&M University, Ph.D. in Information Science and Learning Systems 2023–present
Committee: Chao Tian (advisor), Xiaoning Qian, Tie Liu, James Caverlee
Research Area: Uncertainty Quantification, Machine Learning and Information Theory
- University of California San Diego, M.S. in Communication Theory and Systems 2021–2023
Advisor: Xinyu Zhang
Research Area: AI-driven Dynamic mmWave Mesh Backhaul
- Southeast University, B.E. in Information Engineering 2017–2021
Advisors: Cheng Zhang, Lei Wang

Professional Experiences

- University of California San Diego, Research Intern with Xinyu Zhang Summer 2022
- Texas A&M University ECEN 303 Random Signals and Systems, Teaching Assistant Spring 2026

Honors and Awards

- NeurIPS Scholar Award 2025
- ISIT Travel Grant Award 2025
- Research Poster Event Winner awarded by TAMU ECE 2024, 2025
- Sun Qingyun Scholarship for Academic Excellence 2020
- First Prize (Top 0.7%) of Mathematical Contest in Modeling (CUMCM) 2017
- Mitsubishi Electric Corporation Scholarship 2019
- Academic Excellence Scholarship 2017, 2018

Publications

(* denotes joint first-authors)

8. [Partial Information Decomposition via Normalizing Flows in Latent Gaussian Distributions](#)
Wenyuan Zhao, Adithya Balachandran, Chao Tian, Paul Pu Liang
NeurIPS 2025 [code]
7. [From Deep Additive Kernel Learning to Last-Layer Bayesian Neural Networks via Induced Prior Approximation](#)
Wenyuan Zhao*, Haoyuan Chen*, Tie Liu, Rui Tuo, Chao Tian
AISTATS 2025 [code]
6. Leaky Multi-Message Private Information Retrieval with Differential Privacy Guarantees
Anoosheh Heidarzadeh, Wenyuan Zhao, Chao Tian, Alex Sprintson
Allerton 2025

5. [Weakly Private Information Retrieval from Heterogeneously Trusted Servers](#)
Wenyuan Zhao, Yu-Shin Huang, Ruida Zhou, Chao Tian
IEEE Transactions on Information Theory 71 (9), 7292-7309
4. [Optimizing Leaky Private Information Retrieval Codes to Achieve \$O\(\log K\)\$ Leakage Ratio Exponent](#)
Wenyuan Zhao, Yu-Shin Huang, Chao Tian, Alex Sprintson
ISIT 2025
3. [Weakly Private Information Retrieval from Heterogeneously Trusted Servers](#)
Yu-Shin Huang, Wenyuan Zhao, Ruida Zhou, Chao Tian
ISIT 2024
2. [A Survey on Fog Computing Applications in Internet of Vehicles](#)
Wenyuan Zhao
ICCDs 2021
1. [Classification of Customer Reviews on E-commerce Platforms based on Naive Bayesian Algorithm and Support Vector Machine](#)
Wenyuan Zhao
Journal of Physics: Conference Series 1678 (1), 012081

Professional Service

- Conference Reviewer: NeurIPS, ICML, AISTATS, ISIT
- Journal Reviewer: IEEE Transactions on Information Theory, IEEE Transactions on Information Forensics and Security, PLOS Computational Biology

Skills

- Languages: English (fluent), Chinese (fluent)
- Programming Languages: Python, C, C++, MATLAB, Standard ML, SystemVerilog
- Software: PyTorch, Tensorflow, Pyro, Keras, L^AT_EX