

# 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 with applications in diverse settings and foundation models. 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

- Machine Learning: Bayesian deep learning, uncertainty quantification, multimodal learning.
- Generative Foundation Models: 3D geometry, agent skills and foundation.
- Information Theory: partial information decomposition, privacy, information retrieval.

## 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, generative foundation models 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

- Bytedance Inc. (San Jose), Research Scientist Intern Summer 2026  
Applied algorithm and foundation for Global Monetization and Business Integrity
- University of California San Diego, Research Intern with Xinyu Zhang Summer 2022

## Honors and Awards

- ICML Silver Reviewer 2026
- 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)

11. [DarkVGGT: Seeing Through Darkness Using Thermal Geometry without Daylight Tax](#)  
Minseong Kweon, Wenyuan Zhao, Nuo Chen, Lulin Liu, Huiwen Han, Zihao Zhu, Srinivas Shakkottai, Chao Tian, Zhiwen Fan  
Preprint [[page](#)] [[code](#)]
10. [GPan-LoRA: Gaussian Process Amortized Networks for Bayesian Low-Rank Adaptation in Large Language Models](#)  
Weifeng Zhang, Wenyuan Zhao, Amir Hossein Rahmati, Yucheng Wang, Zhiyuan Wang, Chao Tian, Xiaoning Qian  
ICML 2026 [[code](#)]
9. [SIKA-GP: Accelerating Gaussian Process Inference with Sparse Inducing Kernel Approximations for Bayesian Deep Learning](#)  
Wenyuan Zhao, Rui Tuo, Chao Tian  
ICML 2026 [[code](#)]

8. [Trust It or Not: Evidential Uncertainty for Feed-Forward 3D Reconstruction with Trust3R](#)  
Zihao Zhu\*, Wenyuan Zhao\*, Nuo Chen, Chao Tian, Zhiwen Fan  
ICML 2026 [page] [code]
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  
IEEE Transactions on Information Forensics and Security, partially presented at 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

## Teaching

- TAMU ECEN 303 Random Signals and Systems Spring 2026

## 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,  $\LaTeX$