

Tiansheng Wen

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Homepage: <https://neilwen987.github.io/>

EDUCATION

Xidian University

M.S. in Information and Telecommunication Engineering

Advisor : **Prof. Bo Chen**

Overall GPA: 3.8 / 4.0

Toefl: 93 (Speaking: 22)

Xi'an, China

Sept. 2023 - present

Xidian University

Bachelor in Electronic Engineering

Advisor : **Prof. Bo Chen**

Overall GPA: 3.8 / 4.0; Rank: 32/342

Xi'an, China

Sept. 2019 - Jul. 2023

EXPERIENCE

Stony Brook University

Research Intern

Advisor : **Prof. Chenyu You**

Research Focus: Sparsity, Adaptive Representation Learning, Uncertainty Estimation

NY, United States

Jul. 2024 - Oct. 2025

RESEARCH INTERESTS

My primary research goal is to develop **efficient, scalable, and reliable** methods for machine learning and generative AI, with a particular focus on sparsity, adaptive representation learning, and principled uncertainty estimation in foundation models—including LLMs, VLMs, and diffusion models. I am also interested in the memorization effects in foundation models, especially at the intersection of cognitive science and machine learning.

PUBLICATION(* EQUAL CONTRIBUTION)

9. Beyond Matryoshka: Revisiting Sparse Coding for Adaptive Representation

Tiansheng Wen*, Yifei Wang*, Zequn Zeng, Xinyang Liu, Bo Chen, Hongwei Liu, Stefanie Jegelka, Chenyu You

ICML 2025 (Oral) | Github repo 120+ stars

8. Route Experts by Sequence, Not by Token

Tiansheng Wen*, Yifei Wang*, Bo Chen, Stefanie Jegelka, Chenyu You

ICLR 2026 (under review)

7. Zero the Features, Not the Scores: Scaling Attention via Feature Sparsity

Xie Yan*, Tiansheng Wen*, Bo Chen, Chenyu You, Stefanie Jegelka, Yifei Wang

ICLR 2026 (under review)

6. CSrv2: Unlocking Ultra-Sparse Embeddings

Lixuan Guo*, Yifei Wang*, Tiansheng Wen*, Bo Chen, Stefanie Jegelka, Chenyu You

ICLR 2026 (under review)

5. Contrastive Factor Analysis

Zhibin Duan*, Tiansheng Wen*, Yifei Wang, Chen Zhu, Bo Chen, Mingyuan Zhou

IJCV under review

4. **A Non-negative VAE: the Generalized Gamma Belief Network**
Zhibin Duan, **Tiansheng Wen**, Muyao Wang, Bo Chen, Mingyuan Zhou
TPAMI under review

3. **Simple Feature Reweighting for Multi-modal Model Group Robustness**
Chenyu You*, Weicheng Dai*, Yifei Min*, **Tiansheng Wen***, Lawrence Staib, James Duncan
TPAMI under review

2. **Explaining Domain Shifts in Language: Concept erasing for Interpretable Image Classification**
Zequn Zeng, Yudi Su, Jianqiao Sun, **Tiansheng Wen**, Hao Zhang, Zhengjue Wang, Bo Chen, Hongwei Liu, Jiawei Ma
CVPR 2025

1. **HICEScore: A Hierarchical Metric for Image Captioning Evaluation**
Zequn Zeng, Jianqiao Sun, Hao Zhang, **Tiansheng Wen**, Yudi Su, Yan Xie, Zhengjue Wang, Bo Chen
ACM MM 2024

SERVICE

Journal Reviewer: TPAMI, JMLR, PR, TMI, TNNLS.
Conference Reviewer: NeurIPS, ICLR, CVPR, AAAI.

AWARDS & HONORS

- National Scholarship in Xidian University

2025
- First-Class Graduate Scholarship in Xidian University

2024
- Second-Class Undergraduate Scholarship in Xidian University

2021
- First-Class Undergraduate Scholarship in Xidian University

2020

TECHNICAL PROFICIENCIES

Programming Languages: Python, C/C++, MATLAB, HTML, etc.
Tools & Frameworks: PyTorch, vLLM, LLaMA-Factory, Git, Latex, Markdown, etc.
Language: Mandarin(Native speaker), English(Fluent).