

Yunbei Zhang



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EDUCATION

- **Tulane University** Aug 2022 - May 2027(Expected)
New Orleans, United States
Ph.D. student in Computer Science
 - Advisor: Jihun Hamm
 - Research Interests: Trustworthy ML, Test/Inference-time Learning, Efficient Model Reprogramming.
- **Osaka University** Apr 2018 - Mar 2022
Osaka, Japan
B.S. in Mathematics
 - Osaka University Award of Excellence
- **Peking University** Jul 2013 - May 2015
Beijing, China
 - Incomplete

PROFESSIONAL EXPERIENCE

- **Tulane University** Aug 2022 - Now
New Orleans, United States
Research Assistant (Supervisor: Jihun Hamm)
 - Test-Time Adaptation, Membership Inference Attack, GenAI
- **Tulane University** Jan 2024 - May 2024
New Orleans, United States
Teaching Assistant (Supervisor: Saad Hassan)
 - Introduction to Data Science (CMPS 3160/CMPS 6160)
 - Outstanding Teaching Assistant Award

PUBLICATIONS

C=CONFERENCE, P=PREPRINT

- [C.6] **DPCore: Dynamic Prompt Coreset for Continual Test-Time Adaptation**
Yunbei Zhang, Akshay Mehra, Shuaicheng Niu, Jihun Hamm
International Conference on Machine Learning (ICML), 2025.
- [C.5] **OT-VP: Optimal Transport-guided Visual Prompting for Test-Time Adaptation**
Yunbei Zhang, Akshay Mehra, Jihun Hamm
IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), 2025. [Oral]
- [C.4] **Understanding the Transferability of Representations via Task-Relatedness**
Akshay Mehra, Yunbei Zhang, Jihun Hamm
Neural Information Processing Systems (NeurIPS), 2024.
- [C.3] **Test-time Assessment of a Model's Performance on Unseen Domains via Optimal Transport**
Akshay Mehra, Yunbei Zhang, Jihun Hamm
CVPR Workshop on Fair, Data-efficient, and Trusted Computer Vision(CVPRW), 2024.
- [C.2] **Achieving Reliable and Fair Skin Lesion Diagnosis via Unsupervised Domain Adaptation**
Janet Wang, Yunbei Zhang, Zhengming Ding, Jihun Hamm
CVPR Workshop on Domain Adaptation, Explainability, Fairness in AI for Medical Image Analysis (CVPRW), 2024.
- [C.1] **On the Fly Neural Style Smoothing for Risk-Averse Domain Generalization**
Akshay Mehra, Yunbei Zhang, Bhavya Kailkhura, Jihun Hamm
IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), 2024.

HONORS & AWARDS

- **Outstanding Teaching Assistant Award** 2024
Tulane University
- **Ichikawa International Scholarship** 2021
Osaka University
- **Osaka University Award of Excellence** 2019
Osaka University
- **School of Science Honor Scholarship** 2018-2021
Osaka University
- **Monbukagakusho Honors Scholarship for International Students** 2018, 2021
Ministry of Education of Japan

ACADEMIC SERVICES

- **Conference Reviewer**
 - ACM MM 2025, WACV 2025, ICLR 2025,
 - Safe Generative AI Workshop @ NeurIPS 2024
- **Journal Reviewer**
 - Journal of Imaging Informatics in Medicine
- **Volunteer**
 - NeurIPS 2023 Outreach Program Volunteer

MISCELLANEOUS

- **Programming Languages:** Python, C++, Git, PyTorch, \LaTeX
- **Languages:** English, Japanese, Chinese