YUNBEI ZHANG

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in zybeich | ⊙ zybeich

EDUCATION

• **Tulane University** *Aug 2022 - May 2027(Expected)*
Ph.D. student in Computer Science New Orleans, United States
◦ Advisor: Jihun Hamm

• **Osaka University** *Apr 2018 - Mar 2022*
B.S. in Mathematics Osaka, Japan
◦ Osaka University Award of Excellence

• **Peking University** *Jul 2013 - May 2015*
◦ Incomplete Beijing, China

PROFESSIONAL EXPERIENCE

• **Tulane University** *Aug 2022 - Now*
Research Assistant (Supervisor: Jihun Hamm) New Orleans, United States
◦ Out-of-Distribution Generalization, Test-Time Adaptation

• **Tulane University** *Jan 2024 - May 2024*
Teaching Assistant (Supervisor: Saad Hassan) New Orleans, United States
◦ Introduction to Data Science (CMPS 3160/CMPS 6160)
◦ Outstanding Teaching Assistant Award

PUBLICATIONS C=CONFERENCE, P=PREPRINT

[C.5] **Analysis of task transferability in large pre-trained classifiers**
Akshay Mehra, **Yunbei Zhang**, *Jihun Hamm*
*Neural Information Processing Systems (**NeurIPS**), 2024.*

[C.4] **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.*

[P.1] **Dynamic Domains, Dynamic Solutions: DPCore for Continual Test-Time Adaptation**
Yunbei Zhang, *Akshay Mehra, Jihun Hamm*
Preprint.

[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**
  - IEEE/CVF Winter Conference on Applications of Computer Vision (*WACV*), 2025
  - International Conference on Learning Representations (*ICLR*), 2025
- **Journal Reviewer**
  - Journal of Imaging Informatics in Medicine
- **Volunteer**
  - Conference on Neural Information Processing Systems (*NeurIPS*) Outreach Program Volunteer, 2023

MISCELLANEOUS

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