

# Wei-Hua Li

Taipei, Taiwan | weihua9217@gmail.com | Google Scholar

## Education

---

- National Taiwan University**, Ph.D. Student in Computer Science Sep. 2023 – Now  
• GPA: 4.1/4.3 Taipei, Taiwan
- National Chengchi University**, M.S. & B.S. in Computer Science Sep. 2017 – June 2023  
• GPA: 3.8/4.3 & 4.2/4.3 Taipei, Taiwan

## Publication: Journal Papers

---

- **Rain2Avoid: Learning Deraining by Self-Supervision** [11] [Link] IEEE TMM 2025 (IF:9.7)  
Yan-Tsung Peng, *Wei-Hua Li*, Zihao Chen
- **RAINet: Rain-Aware Image Deraining Network with Multi-Stage Image Decomposition** [9] [Link] Electronics Letters 2025  
Wen-Yi Peng, Yi-Ting Lin, Zihao Chen, *Wei-Hua Li*, Aiden J Yoon, Yan-Tsung Peng

## Publication: Conference Papers (\* denotes equal contribution.)

---

- **Customized Visual Storytelling with Unified Multimodal LLMs** [Link] CVPR Workshop 2026  
*Wei-Hua Li*, Cheng Sun, Chu-Song Chen
- **Continual Learning for Weakly-Supervised Histopathology Tissue Segmentation** [7] [Link] IEEE CIBCB 2025  
*Wei-Hua Li*, Huei-Fang Yang, Chu-Song Chen
- **PDseg: Patch-Wise Distillation and Controllable Image Generation for Weakly-Supervised Histopathology Tissue Segmentation** [6] [Link] ICASSP 2025  
*Wei-Hua Li*, Yu-Hsing Hsieh, Huei-Fang Yang, Chu-Song Chen
- **Mask-aware Text-to-Image Retrieval: Referring Expression Segmentation Meets Cross-modal Retrieval** [12] [Link] ICMR 2025  
Li-Cheng Shen, Jih-Kang Hsieh, *Wei-Hua Li*, Chu-Song Chen
- **Relation-Rich Visual Document Generator for Visual Information Extraction** [5] [Link] CVPR 2025  
Zi-Han Jiang, Chien-Wei Lin, *Wei-Hua Li*, Hsuan-Tung Liu, Yi-Ren Yeh, Chu-Song Chen
- **ACCEPT: Adaptive Codebook for Composite and Efficient Prompt Tuning** [8] [Link] Findings of EMNLP 2024  
Yu-Chen Lin\*, *Wei-Hua Li*\*, Jun-Cheng Chen, Chu-Song Chen
- **Open-Vocabulary Panoptic Segmentation Using Bert Pre-Training of Vision-Language Multiway Transformer Model** [2] [Link] ICIP 2024  
Yi-Chia Chen\*, *Wei-Hua Li*\*, Chu-Song Chen
- **Combining Present-Only and Present-Absent Data with Pseudo-Label Generation for Species Distribution Modeling** [1] [Link] CLEF 2024  
Yi-Chia Chen, Peng Tai, *Wei-Hua Li*, Chu-Song Chen
- **SAM4MLLM: Enhance Multi-Modal Large Language Model for Referring Expression Segmentation** [3] [Link] ECCV 2024  
Yi-Chia Chen, *Wei-Hua Li*, Cheng Sun, Yu-Chiang Frank Wang, Chu-Song Chen
- **UP-NAS: Unified Proxy for Neural Architecture Search** [4] [Link] CVPR Workshop 2024  
Yi-Cheng Huang\*, *Wei-Hua Li*\*, Chih-Han Tsou, Jun-Cheng Chen, Chu-Song Chen

- **Rain2Avoid: Self-Supervised Single Image Deraining** [10] [Link]

ICASSP 2023

Yan-Tsung Peng, *Wei-Hua Li*

---

## Publication: Book

- **Deep Learning: Applications in Image Processing.** [Link]

June 14, 2023.

Publication ISBN: 978-626-328-4791. Publisher: Chuan Hwa Book Co., Ltd.

Yan-Tsung Peng, *Wei-Hua Li*, Yen-Rong Chen

---

## Honors & Awards

**2021 Ministry of Education AI Cup Award.** A 3rd place award in the competition on Traditional Chinese Scene Text Recognition [3/123] [Link]

Taipei, Taiwan

*Wei-Hua Li*, He-Hao Liao

**2024 on GeoLifeCLEF 2024 @ LifeCLEF & CVPR-FGVC** A 2nd place award in the competition [2/51] [Link]

Grenoble, France

*Wei-Hua Li*, Yi-Chia Chen, Peng Tai

---

## References

- [1] Y Chen, Tai Peng, W Li, and Chu-Song Chen. Combining present-only and present-absent data with pseudo-label generation for species distribution modeling. *Working Notes of CLEF*, 2024.
- [2] Yi-Chia Chen, Wei-Hua Li, and Chu-Song Chen. Open-vocabulary panoptic segmentation using bert pre-training of vision-language multiway transformer model. In *2024 IEEE International Conference on Image Processing (ICIP)*, pages 2494–2500. IEEE, 2024.
- [3] Yi-Chia Chen, Wei-Hua Li, Cheng Sun, Yu-Chiang Frank Wang, and Chu-Song Chen. Sam4mllm: Enhance multi-modal large language model for referring expression segmentation. In *European Conference on Computer Vision*, pages 323–340. Springer, 2024.
- [4] Yi-Cheng Huang, Wei-Hua Li, Chih-Han Tsou, Jun-Cheng Chen, and Chu-Song Chen. Up-nas: Unified proxy for neural architecture search. In *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition*, pages 1675–1684, 2024.
- [5] Zi-Han Jiang, Chien-Wei Lin, Wei-Hua Li, Hsuan-Tung Liu, Yi-Ren Yeh, and Chu-Song Chen. Relation-rich visual document generator for visual information extraction. In *Proceedings of the Computer Vision and Pattern Recognition Conference*, pages 14449–14459, 2025.
- [6] Wei-Hua Li, Yu-Hsing Hsieh, Hwei-Fang Yang, and Chu-Song Chen. Pdseg: Patch-wise distillation and controllable image generation for weakly-supervised histopathology tissue segmentation. In *ICASSP 2025-2025 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, pages 1–5. IEEE, 2025.
- [7] Wei-Hua Li, Hwei-Fang Yang, and Chu-Song Chen. Continual learning for weakly-supervised histopathology tissue segmentation. In *2025 IEEE Conference on Computational Intelligence in Bioinformatics and Computational Biology (CIBCB)*, pages 1–8, 2025.
- [8] Yu-Chen Lin, Wei-Hua Li, Jun-cheng Chen, and Chu-Song Chen. Accept: Adaptive codebook for composite and efficient prompt tuning. In *Findings of the Association for Computational Linguistics: EMNLP 2024*, pages 15345–15358, 2024.
- [9] Wen-Yi Peng, Yi-Ting Lin, Zihao Chen, Wei-Hua Li, Aiden J Yoon, and Yan-Tsung Peng. Rainet: Rain-aware image deraining network with multi-stage image decomposition. *Electronics Letters*, 61(1):e70471, 2025.
- [10] Yan-Tsung Peng and Wei-Hua Li. Rain2avoid: Self-supervised single image deraining. In *ICASSP 2023-2023 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, pages 1–5. IEEE, 2023.
- [11] Yan-Tsung Peng, Wei-Hua Li, and Zihao Chen. Rain2avoid: Learning deraining by self-supervision. *IEEE Transactions on Multimedia*, 2025.

- [12] Li-Cheng Shen, Jih-Kang Hsieh, Wei-Hua Li, and Chu-Song Chen. Mask-aware text-to-image retrieval: Referring expression segmentation meets cross-modal retrieval. In *Proceedings of the 2025 International Conference on Multimedia Retrieval*, pages 2028–2032, 2025.