

Wei-Hua Li

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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 [10] [Link]	TMM 2025
Yan-Tsung Peng, Wei-Hua Li, Zihao Chen	

Publication: Conference Papers (* denotes equal contribution.)

- Continual Learning for Weakly-Supervised Histopathology Tissue Segmentation [7] [Link]	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 [11] [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	

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, Huei-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, Huei-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] 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.
- [10] Yan-Tsung Peng, Wei-Hua Li, and Zihao Chen. Rain2avoid: Learning deraining by self-supervision. *IEEE Transactions on Multimedia*, 2025.
- [11] 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.