

Tsung-Han (Patrick) Wu

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Education

Ph.D. in Computer Science University of California, Berkeley	<i>Aug. 2023 – Present</i>
M.S. in Computer Science National Taiwan University (NTU)	<i>Sep. 2020 – Jun. 2022</i>
B.S. in Computer Science National Taiwan University (NTU)	<i>Sep. 2016 – Jun. 2020</i>

• **Advisor:** Prof. Trevor Darrell, Prof. Joseph E. Gonzalez
• **Affiliation:** BAIR, Sky Computing Lab

• **Advisor:** Prof. Winston H. Hsu
• **Affiliation:** Communication and Multimedia Lab (CMLab)
• **Honors:** 2021 Foxconn Technology Award, 2022 IPPR Outstanding MS Thesis Award

• **GPA:** 4.18/4.3 (Overall), 4.24/4.3 (CS); Rank: 6/117 (Top 5%)
• **Honors:** Dean's List Award x3 (F'16, S'17, F'19)

Research Interests

2023–Now | Human-Centered AI: Advancing human–AI interaction under real-world dynamics (e.g., false premises, long contexts, interruptions) with reliable, corrected responses.
Key papers: Interruptible-LRM (arXiv '25), Generate but Verify (NeurIPS '25), Visual Haystacks (ICLR '25), See Say and Segment (CVPR '24), Self-Correcting LLM Diffusion (CVPR '24)

2019–2023 | Low-Cost Perception: Reducing perception cost with limited labels (active learning), domain adaptation, and cheap sensors.
Key papers: D2ADA (ECCV '22), ReDAL (ICCV '21), MonoDTR (CVPR '22)

Selected Publications (* denotes equal contribution) [Google Scholar Page]

Preprints

- [1] Are Large Reasoning Models Interruptible?
Tsung-Han Wu*, Mihran Miroyan*, David M Chan, Trevor Darrell, Narges Norouzi, Joseph E Gonzalez
- [2] Search Arena: Analyzing Search-Augmented LLMs
Mihran Miroyan* **Tsung-Han Wu***, Logan King, Tianle Li, Jiayi Pan, Xinyan Hu, Wei-Lin Chiang, Anastasios N. Angelopoulos, Trevor Darrell, Narges Norouzi, Joseph E. Gonzalez

Conference Papers

- [3] Generate, but Verify: Reducing Hallucination in Vision-Language Models with Retrospective Resampling (**NeurIPS 2025**)
Tsung-Han Wu, Heekyung Lee, Jiaxin Ge, Joseph E. Gonzalez, Trevor Darrell, David M. Chan
- [4] Visual Haystacks: A Vision-Centric Needle-In-A-Haystack Benchmark (**ICLR 2025**)
Tsung-Han Wu, Giscard Biamby, Jerome Quenum, Ritwik Gupta, Joseph E. Gonzalez, Trevor Darrell, David M. Chan
- [5] See, Say, and Segment: Teaching LMMs to Overcome False Premises (**CVPR 2024**)
Tsung-Han Wu*, Giscard Biamby*, David M. Chan, Lisa Dunlap, Ritwik Gupta, Xudong Wang, Joseph E. Gonzalez, Trevor Darrell

- [6] Self-correcting LLM-controlled Diffusion Models (**CVPR 2024**)
Tsung-Han Wu*, Long Lian*, Joseph E. Gonzalez, Boyi Li, Trevor Darrell
- [7] D2ADA: Dynamic Density-aware Active Domain Adaptation for Semantic Segmentation (**ECCV 2022**)
Tsung-Han Wu, Yi-Syuan Liou, Shao-Ji Yuan, Hsin-Ying Lee, Tung-I Chen, Kuan-Chih Huang, Winston H. Hsu
- [8] MonoDTR: Monocular 3D Object Detection with Depth-Aware Transformer (**CVPR 2022**)
Kuan-Chih Huang, **Tsung-Han Wu**, Hung-Ting Su, Winston H. Hsu
- [9] ReDAL: Region-based and Diversity-aware Active Learning for Point Cloud Semantic Segmentation (**ICCV 2021**)
Tsung-Han Wu, Yueh-Cheng Liu, Yu-Kai Huang, Hsin-Ying Lee, Hung-Ting Su, Ping-Chia Huang, Winston H. Hsu

Work Experience

Research Scientist Intern FAIR, Meta Inc. Supervisor: Prof. Kate Saenko	<i>May. 2024 – Aug. 2024</i>
System Administrator Department of Computer Science and Information Engineering (CSIE), NTU Supervisor: Prof. Hsin-Mu Tsai	<i>Feb. 2018 – Jun. 2020</i>
Data Scientist Intern AICS Team, ASUS Inc.	<i>Jul. 2019 – Aug. 2019</i>

Teaching Experience

Teaching Assistant CS2311: Network Administration and System Administration, NTU	<i>2019, 2020 Spring</i>
• Lab Instructor (S'19): Taught shell script, and Linux kernel; created two assignments. (Best TA Award) • Head TA (S'20): Led the TA team and co-planned syllabus; managed labs, assignments, and exams.	

Teaching Assistant EE5184: Machine Learning, NTU	<i>2019 Fall</i>
• Designed two Kaggle-based programming assignments, several hand-written homework, and final exam problems.	

Services

Workshop Organizer, 4th Multimodal Foundation Models (MMFM) Workshop @ ICCV 2025	<i>Nov. 2025</i>
Conference/Journal Reviewers, at CVPR, ECCV, ICCV, NeurIPS, ICLR, and more	<i>Present</i>

Awards

IPPR Outstanding MS Thesis Award (Top 3 Computer Vision Master Thesis in Taiwan)	<i>Aug. 2022</i>
Foxconn Technology Award (Top 19 applied students in Taiwan, 250K NTD scholarship)	<i>Dec. 2021</i>
Best Teaching Assistant Awards, at NTU EECS	<i>Spring'19</i>
Dean's List Award, at NTU CSIE (For top 5% students); 3x Recipient	<i>Fall'16, Spring'17, Fall'19</i>