

# Tsung-Han (Patrick) Wu

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## Education

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**Ph.D. in Computer Science** Aug. 2023 – Present

University of California, Berkeley

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

**M.S. in Computer Science** Sep. 2020 – Jun. 2022

National Taiwan University (NTU)

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

**B.S. in Computer Science** Sep. 2016 – Jun. 2020

National Taiwan University (NTU)

- **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

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**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](#)]

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### 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** *May. 2024 – Aug. 2024*  
FAIR, Meta Inc.  
Supervisor: Prof. Kate Saenko
- Develop automated data mining frameworks for fine-grained, referring segmentation tasks.
- System Administrator** *Feb. 2018 – Jun. 2020*  
Department of Computer Science and Information Engineering (CSIE), NTU  
Supervisor: Prof. Hsin-Mu Tsai
- Head of Mail Services (18–19): Maintained department-wide mail servers; automated service deployments.
  - SysAdmin Lead (19–20): Improved system backup/monitoring; led the CS department's data center relocation.
- Data Scientist Intern** *Jul. 2019 – Aug. 2019*  
AICS Team, ASUS Inc.
- Designed OCR enhancement tools and built detection models for document analysis tasks.

## Teaching Experience

- Teaching Assistant** *2019, 2020 Spring*  
CS2311: Network Administration and System Administration, NTU
- 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** *2019 Fall*  
EE5184: Machine Learning, NTU
- 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 *Nov. 2025*
- Conference/Journal Reviewers, at CVPR, ECCV, ICCV, NeurIPS, ICLR, and more *Present*

## Awards

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