

Yu-Yun Tseng

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Education

University of Colorado Boulder

Colorado USA

PHD IN COMPUTER SCIENCE

2021 - present

- Advisor: Dr. Danna Gurari
- Research focus: Computer vision, dataset curation, few-shot learning, VLM, segmentation, data privacy, responsible AI
- Engineering experience: PyTorch, TensorFlow, Keras, NumPy, Pandas, Linux, AWS, Slurm

National Yang Ming Chiao Tung University

Tainan Taiwan

MS IN COMPUTATIONAL INTELLIGENCE

2019 - 2021

- Advisor: Dr. Jen-Jee Chen
- Research focus: Machine Learning, 5G, WiFi, and Internet of Things

National Tsing Hua University

Hsinchu Taiwan

BS IN ENGINEERING AND SYSTEM SCIENCE

2013 - 2017

- Program track: Electronic Engineering

Professional Experience

- 2025-2025 **AI Intern**, Marvell Semiconductor, Inc., CA USA
- 2017-2019 **Computer Vision Engineer**, Coretronic Corporation, Taiwan
- 2017-2017 **Research Intern**, LiteOn Technology Corporation, Taiwan

Teaching Experience

- Spring 2025 **Deep Learning and Neural Networks (Graduate Level)**, Lead Teaching Assistant
- Spring 2024 **Deep Learning and Neural Networks (Graduate Level)**, Teaching Assistant
- Spring 2020 **Deep Learning**, Teaching Assistant

Portfolio

Deep Learning Coding Tutorial in PyTorch [GitHub]

Coding tutorial created from scratch that covers DL basics to advanced topics.

Vision Language Models (VLMs) Visual Question Answering (VQA) Evaluation [GitHub]

VLM evaluation repository that provides easy access to matching various data formats to assigned VLMs.

Few-Shot Localization Datasets: VizWiz-FewShot and BIV-Priv-Seg [Website]

Published datasets with annual challenge at VizWiz Workshop, CVPR, including sample code and submission format.

Awards, Fellowships, & Grants

- Spring 2025 **Outstanding Research Paper Award**, University of Colorado Boulder
- Spring 2025 **Outstanding Teaching Assistant Award**, University of Colorado Boulder
- Spring 2024 **University nomination Apple AI/ML Scholar candidate**, University of Colorado Boulder
- Spring 2023 **Bell Family Endowed CS Scholarships**, Computer Science, University of Colorado Boulder
- Spring 2023 **Outstanding Research Award**, Computer Science, University of Colorado Boulder
- Spring 2022 **Clive Baillie Memorial Fellowship**, Computer Science, University of Colorado Boulder
- Spring 2021 **Computer Science Departmental Fellowship**, University of Colorado Boulder
- Spring 2018 **AI Technical Professionals Program Scholarship**, Coretronic Corporation

Publications

PUBLISHED

Visual Privacy Management with Generative AI for Blind and Low-Vision People. [paper]

Tanusree Sharma, **Yu-Yun Tseng**, Lotus Zhang, Ayae Ide, Kelly Avery Mack, Leah Findlater, Danna Gurari, Yang Wang.
The 26th International ACM SIGACCESS Conference on Computers and Accessibility (**ASSETS**), **2025**

Accounting for Visual Questions with Focus Ambiguity. [paper]

*Chongyan Chen, **Yu-Yun Tseng**, Zhuoheng Li, Anush Kumar Venkatesh, Danna Gurari.
International Conference on Computer Vision (**ICCV**), **2025**.

BIV-Priv-Seg: Locating Private Content in Images Taken by People With Visual Impairments. (**Oral presentation, top 8%**)
[paper, oral presentation]

Yu-Yun Tseng, Tanusree Sharma, Lotus Zhang, Abigale Stangl, Leah Findlater, Yang Wang, Danna Gurari.
IEEE/CVF Winter Conference on Applications of Computer Vision (**WACV**), **2025**.

Learning-Based WiFi Fingerprint Inpainting via Generative Adversarial Networks. [paper]

Yu Chan, Pin-Yu Lin, **Yu-Yun Tseng**, Jen-Jee Chen, Yu-Chee Tseng.
IEEE International Conference on Computer Communications and Networks (**ICCCN**), **2024**.

Designing Accessible Obfuscation Support for Blind Individuals' Visual Privacy Management. [paper]

Lotus Zhang, Tanusree Sharma, Abigale Stangl, **Yu-Yun Tseng**, Inan Xu, Danna Gurari, Yang Wang, Leah Findlater.
ACM Conference on Human Factors in Computing Systems (**CHI**), **2024**.

Disability-First Design and Creation of A Dataset with Private Visual Information. [paper]

Tanusree Sharma, Abigale Stangl, Lotus Zhang, **Yu-Yun Tseng**, Inan Xu, Leah Findlater, Danna Gurari, Yang Wang.
ACM Conference on Human Factors in Computing Systems (**CHI**), **2023**.

VizWiz-FewShot: Locating Objects in Images Taken by People With Visual Impairments. [paper]

Yu-Yun Tseng, Alexander Bell, Danna Gurari.
European Conference on Computer Vision (**ECCV**), **2022**.

Efficient Vehicle Counting Based on Time-Spatial Images by Neural Networks.

Yu-Yun Tseng, Tzu-Chien Hsu, Jen-Jee Chen, Yu-Chee Tseng. [paper]
IEEE International Conference on Mobile Ad-Hoc and Smart Systems (**MASS**), **2021**.

Computer Vision-Assisted Instant Alerts in 5G. [paper]

Yu-Yun Tseng, Po-Min Hsu, Jen-Jee Chen, Yu-Chee Tseng.
IEEE International Conference on Computer Communications and Networks (**ICCCN**), **2020**.

IN REVIEW

Presentations

Mar 2025 *BIV-Priv-Seg: Locating Private Content in Images Taken by People With Visual Impairments*.

Oral presentation: IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), Tucson, AZ.

Aug 2024 *Localize and Edit: Privacy Preservation for Blind and Low Vision*.

Invited talk: OPTICA Vision and Color Summer Data Blast, virtual.

Jun 2024 *VizWiz Grand Challenge Workshop*.

Workshop Host, Conference on Computer Vision and Pattern Recognition (CVPR), Seattle, WA.

Mar 2024 *Guest Lecture on CNN Representations*.

Guest Lecture, Deep Learning and Neural Networks, Boulder, CO.

Jun 2023 *VizWiz Grand Challenge Workshop*.

Workshop Host, Conference on Computer Vision and Pattern Recognition (CVPR), Vancouver, Canada.

Feb 2023 *VizWiz-FewShot: Locating Objects in Images Taken by People With Visual Impairments*.

2023 BAIVC Symposium, Boulder, CO.

Outreach & Extracurricular

SERVICE

2023-2024 **President** of Taiwanese Student Association at CU Boulder
Feb 2023 **Co-Chair** of 2023 BAIVC Symposium, University of Colorado Boulder
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PEER REVIEW

2025 ACM Conference on Human Factors in Computing Systems (**CHI**)
2024 IEEE/CVF Winter Conference on Applications of Computer Vision (**WACV**)

EXTRACURRICULAR

2024 **Silver Medalist** of Women Singles in 12th Annual Fort Collins Open Badminton Tournament
2024 **Bronze Medalist** of Women Doubles in 12th Annual Fort Collins Open Badminton Tournament
2023 **Summited a 14er** at Mount Sherman (14,036 feet), Colorado