

# Chun-Han (Hank) Yao

## Curriculum Vitae

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chhankyao.github.io  
Github: github.com/chhankyao

### Education

- Ph.D. Candidate **University of California, Merced, CA, USA**  
2019 – Present, Electrical Engineering and Computer Science  
Vision and Learning Lab   
Advisor: Ming-Hsuan Yang  
GPA: 4.0/4.0
- Master of Science **University of California, San Diego, CA, USA**  
2017 – 2019, Computer Science  
overall GPA: 3.97/4.0
- Bachelor of Science **National Taiwan University, Taipei, Taiwan**  
2012 – 2016, Electrical Engineering  
major GPA: 4.17/4.3 (top 5%)

### Publications

- ArXiv 2023 **ARTIC3D: Learning Robust Articulated 3D Shapes from Noisy Web Image Collections** [\[page\]](#)  
[Chun-Han Yao](#), Amit Raj, Wei-Chih Hung, Yanzhen Li, Michael Rubinstein, Ming-Hsuan Yang, Varun Jampani  
ArXiv Preprint, 2023
- CVPR 2023 **Hi-LASSIE: High-Fidelity Articulated Shape and Skeleton Discovery from Sparse Image Ensemble** [\[page\]](#)  
[Chun-Han Yao](#), Wei-Chih Hung, Yanzhen Li, Michael Rubinstein, Ming-Hsuan Yang, Varun Jampani  
Conference on Computer Vision and Pattern Recognition (CVPR), 2023
- NeurIPS 2022 **LASSIE: Learning Articulated Shapes from Sparse Image Ensemble via 3D Part Discovery** [\[page\]](#)  
[Chun-Han Yao](#), Wei-Chih Hung, Yanzhen Li, Michael Rubinstein, Ming-Hsuan Yang, Varun Jampani  
Neural Information Processing Systems (NeurIPS), 2022
- ECCV 2022 **Learning Visibility for Robust Dense Human Body Estimation (VisDB)** [\[page\]](#)  
[Chun-Han Yao](#), Jimei Yang, Duygu Ceylan, Yi Zhou, Yang Zhou, Ming-Hsuan Yang  
European Conference on Computer Vision (ECCV), 2022
- WACV 2022 **Federated Multi-target Domain Adaptation (DualAdapt)** [\[paper\]](#)  
[Chun-Han Yao](#), Boqing Gong, Yin Cui, Hang Qi, Yukun Zhu, Ming-Hsuan Yang  
Winter Conference on Applications of Computer Vision (WACV), 2022
- ICCV 2021 **Discovering 3D Parts from Image Collections** [\[page\]](#)  
[Chun-Han Yao](#), Wei-Chih Hung, Varun Jampani, Ming-Hsuan Yang  
International Conference on Computer Vision (ICCV), 2021
- ECCV 2020 **Video Object Detection via Object-level Temporal Aggregation** [\[paper\]](#)  
[Chun-Han Yao](#), Chen Fang, Xiaohui Shen, Yangyue Wan, Ming-Hsuan Yang  
European Conference on Computer Vision (ECCV), 2020
- WACV 2020 **Progressive Domain Adaption for Object Detection** [\[github\]](#)  
Han-Kai Hsu, [Chun-Han Yao](#), Yi-Hsuan Tsai, Wei-Chih Hung, Hung-Yu Tseng, Maneesh Singh, Ming-Hsuan Yang  
Winter Conference on Applications of Computer Vision (WACV), 2020

ACMMM 2017 **Occlusion-aware Video Temporal Consistency** [\[paper\]](#)

Chun-Han Yao, Chia-Yang Chang, Shao-Yi Chien  
ACM Multimedia (MM), 2017

ICME 2016 **Example-based Video Color Transfer** [\[paper\]](#)

Chun-Han Yao, Chia-Yang Chang, Shao-Yi Chien  
IEEE International Conference on Multimedia and Expo (ICME), 2016

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## Research and Work Experience

Research Scientist **Reality Labs Research (Meta)**, Sausalito, CA, USA

- Intern
- Jun. 2023 – Present
  - Mentors: Tony Tung, Nikolaos Sarafianos
  - Project: Capturing 3D Human Body from Monocular Inputs

Student Researcher **Google Research**, Mountain View, CA, USA

- Feb. 2022 – Jun. 2023
- Mentor: Varun Jampani
- Project: 3D Articulated Shapes from Sparse Image Ensemble (LASSIE, Hi-LASSIE, ARTIC3D)

Research Intern **Adobe Research**, San Jose, CA, USA

- Mar. 2021 – Jan. 2022
- Mentor: Jimei Yang
- Project: Learning Visibility for Robust Dense Human Body Estimation (VisDB)

Research Intern **Google Research**, Mountain View, CA, USA

- Mar. 2020 – Mar. 2021
- Mentor: Boqing Gong
- Project: Federated Multi-target Domain Adaptation (DualAdapt)

Research Intern **Bytedance AI Lab**, Palo Alto, CA, USA

- Mar. 2019 – Aug. 2019
- Mentors: Xiaohui Shen, Chen Fang, Yangyue Wan
- Project: Real-time Video Object Detection by Tracking

Research Assistant **CSE, University of California, San Diego**, CA, USA

- Mar. 2018 – Dec. 2018
- Advisor: Manmohan Chandraker
- Project: 3D Reconstruction for Defect Detection via Generative Adversarial Networks

Software Engineer **Verizon Media (Oath/Yahoo)**, Sunnyvale, CA, USA

- Intern
- Jun. 2018 – Sep. 2018
  - Mentors: Sridharan P, Umang Patel
  - Projects: Content Extraction from Images (Coupon Detection, Optical Character Recognition, Name Entity Recognition)

Research Assistant **CSE, University of California, San Diego**, CA, USA

- Sep. 2017 – Jun. 2018
- Advisor: Chung-Kuan Cheng
- Projects: BCG and fMRI Brain Image Analysis, System Power Optimization

Research Intern **DT42**, Taipei, Taiwan

- Apr. 2017 – Aug. 2017
- Project: Object Detection for Video Surveillance Systems (YOLO, Faster-RCNN)

Research Assistant **EE, National Taiwan University**, Taipei, Taiwan

- Feb. 2015 – Sep. 2016
- Advisor: Shao-Yi Chien
- Projects: Video Temporal Consistency, Video Color Transfer

Research Assistant **MediaTek**, Taipei, Taiwan

- Aug. 2015 – Sep. 2016
- Advisor: Hung-Yu Wei
- Project: Scheduling and Power Allocation for Millimeter-wave Mobile Wireless Networks

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## Honors and Awards

Fellowship **Graduate Student Opportunity Program Fellowship**, UC Merced, Aug. 2022  
Top 2 research achievement

Fellowship **Bobcat Fellowship**, UC Merced, Jan. 2022  
Outstanding academic achievement

Award **Undergraduate Innovation Award**, EE, National Taiwan University, Jun. 2016  
Top 3 research projects

Award **Presidential Award**, National Taiwan University, Jan. 2009, Jun. 2009  
Top 5% in the department

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## Teaching Experience

Teaching Assistant **EECS, University of California**, Merced, CA, USA

- CSE 185: Introduction to Computer Vision (Spring 2021)
- CSE 005: Introduction to Computer Applications (Fall 2020)
- CSE 140: Computer Architecture (Spring 2020)
- CSE 020: Introduction to Computing [Java Programming] (Fall 2019)

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## Technical Skills


Programming Proficient (10+ years) in Python  
Familiar (3+ years) with C++, Java, JavaScript, R, Verilog


Toolbox/Software PyTorch, TensorFlow, MATLAB, OpenCV, Spark, LabVIEW


Hardware FPGA, Arduino, USRP


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## References

Ph.D. Advisor **Ming-Hsuan Yang**, *Professor*, University of California, Merced  
✉ mhyang@ucmerced.edu 

Internship Mentor **Varun Jampani**, *Research Scientist*, Google  
✉ varunjampani@gmail.com 

Internship Mentor **Jimei Yang**, *Research Scientist*, Adobe  
✉ jimyang@adobe.com 

Internship Mentor **Boqing Gong**, *Research Scientist*, Google  
✉ boqinggo@outlook.com 

Internship Mentor **Chen Fang**, *Research Scientist*, Bytedance AI Lab  
✉ fangchen@bytedance.com 

Research Advisor **Manmohan Chandraker**, *Professor*, University of California, San Diego  
✉ mkchandraker@eng.ucsd.edu 

Research Advisor **Shao-Yi Chien**, *Professor*, National Taiwan University  
✉ sychien@ntu.edu.tw 