

# Chun-Han (Hank) Yao

## Curriculum Vitae

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chhankyao.github.io

### Education

- Ph.D. **University of California, Merced, CA, USA**  
2019 – 2023, 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

### Publications

- arXiv 2024 **SV4D: Dynamic 3D Content Generation with Multi-Frame and Multi-View Consistency** [\[page\]](#)  
Yiming Xie\*, Chun-Han Yao\*, Vikram Voleti, Huaizu Jiang, Varun Jampani (\*equal contributions)  
arXiv preprint, 2024
- ECCV 2024 **SV3D: Novel Multi-view Synthesis and 3D Generation from a Single Image using Latent Video Diffusion** [\[page\]](#)  
Vikram Voleti\*, Chun-Han Yao\*, Mark Boss\*, Adam Letts, David Pankratz, Dmitry Tochilkin, Christian Laforte, Robin Rombach, Varun Jampani\* (\*core contributions)  
European Conference on Computer Vision (ECCV), 2024
- NeurIPS 2023 **ARTIC3D: Learning Robust Articulated 3D Shapes from Noisy Web Image Collections** [\[page\]](#)  
Chun-Han Yao, Amit Raj, Wei-Chih Hung, Yuanzhen Li, Michael Rubinstein, Ming-Hsuan Yang, Varun Jampani  
Neural Information Processing Systems (NeurIPS), 2023
- CVPR 2023 **Hi-LASSIE: High-Fidelity Articulated Shape and Skeleton Discovery from Sparse Image Ensemble** [\[page\]](#)  
Chun-Han Yao, Wei-Chih Hung, Yuanzhen 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, Yuanzhen 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

## Research and Work Experience

- Research Scientist **Stability AI**, CA, USA  
 • Jan. 2024 – Present  
 • Manager: Varun Jampani  
 • Project: SV3D, 4D generation
- Research Scientist **Reality Labs Research (Meta)**, Sausalito, CA, USA  
 Intern • Jun. 2023 – Oct. 2024  
 • Mentors: Tony Tung, Nikolaos Sarafianos  
 • Project: Reconstructing Clothed Human Body from Monocular RGBD Images
- 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 Intern **Verizon Media (Oath/Yahoo)**, Sunnyvale, CA, USA
- 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

## 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

## 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)

## 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

## References

- Manager **Varun Jampani**, *Lead Researcher*, Stability AI  
✉ varunjampani@gmail.com 

Ph.D. Advisor **Ming-Hsuan Yang**, *Professor*, University of California, Merced  
✉ [mhyang@ucmerced.edu](mailto:mhyang@ucmerced.edu) [i](#)

Internship Mentor **Jimei Yang**, *Research Scientist*, Adobe  
✉ [jimyang@adobe.com](mailto:jimyang@adobe.com) [i](#)

Internship Mentor **Boqing Gong**, *Research Scientist*, Google  
✉ [boqinggo@outlook.com](mailto:boqinggo@outlook.com) [i](#)

Internship Mentor **Chen Fang**, *Research Scientist*, Bytedance AI Lab  
✉ [fangchen@bytedance.com](mailto:fangchen@bytedance.com) [i](#)

Research Advisor **Manmohan Chandraker**, *Professor*, University of California, San Diego  
✉ [mkchandraker@eng.ucsd.edu](mailto:mkchandraker@eng.ucsd.edu) [i](#)

Research Advisor **Shao-Yi Chien**, *Professor*, National Taiwan University  
✉ [sychien@ntu.edu.tw](mailto:sychien@ntu.edu.tw) [i](#)