

Chun-Han (Hank) Yao

Curriculum Vitae

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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
- CVPR 2024 **ANIM: Accurate Neural Implicit Model for Human Reconstruction from a single RGB-D image** [\[page\]](#)
Marco Pesavento, Yuanlu Xu, Nikolaos Sarafianos, Robert Maier, Ziyang Wang, [Chun-Han Yao](#), Marco Volino, Edmond Boyer, Adrian Hilton, Tony Tung
Conference on Computer Vision and Pattern Recognition (CVPR), 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 **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

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 [i](#)
- Ph.D. Advisor **Ming-Hsuan Yang**, *Professor*, University of California, Merced
✉ mhyang@ucmerced.edu [i](#)
- Internship Mentor **Jimei Yang**, *Research Scientist*, Adobe
✉ jimyang@adobe.com [i](#)
- Internship Mentor **Boqing Gong**, *Research Scientist*, Google
✉ boqinggo@outlook.com [i](#)
- Internship Mentor **Chen Fang**, *Research Scientist*, Bytedance AI Lab
✉ fangchen@bytedance.com [i](#)
- Research Advisor **Manmohan Chandraker**, *Professor*, University of California, San Diego
✉ mkchandraker@eng.ucsd.edu [i](#)
- Research Advisor **Shao-Yi Chien**, *Professor*, National Taiwan University
✉ sychien@ntu.edu.tw [i](#)