

# Chun-Han (Hank) Yao

## Curriculum Vitae

✉ [chunhanyao@gmail.com](mailto:chunhanyao@gmail.com)  
📄 [chhankyao.github.io](https://github.com/chhankyao)

### Education

- Ph.D. **University of California, Merced, CA, USA**  
2019 – 2023, Electrical Engineering and Computer Science  
Vision and Learning Lab [i](#)  
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

- NeurIPS 2025 **Stable Part Diffusion: Multi-View RGB and Kinematic Parts Video Generation** [\[page\]](#)  
Hao Zhang, [Chun-Han Yao](#), Simon Donnai, Narendra Ahuja, Varun Jampani  
Neural Information Processing Systems (NeurIPS), 2025
- ICCV 2025 **SV4D 2.0: Enhancing Spatio-Temporal Consistency in Multi-View Video Diffusion for High-Quality 4D Generation** [\[page\]](#)  
[Chun-Han Yao](#)\*, Yiming Xie\*, Vikram Voleti, Huaizu Jiang, Varun Jampani (\*equal contributions)  
International Conference on Computer Vision (ICCV), 2025
- ICCV 2025 **STABLE VIRTUAL CAMERA: Generative View Synthesis with Diffusion Models** [\[page\]](#)  
Jensen Jinghao Zhou\*, Hang Gao\*, Vikram Voleti, Aaryaman Vasishtha, [Chun-Han Yao](#), Mark Boss, Philip Torr, Christian Rupprecht, Varun Jampani (\*equal contributions)  
International Conference on Computer Vision (ICCV), 2025
- ICCV 2025 **FaceCraft4D: Animated 3D Facial Avatar Generation from a Single Image** [\[link\]](#)  
Fei Yin, Mallikarjun B R, [Chun-Han Yao](#), Rafal Mantiuk, Varun Jampani  
International Conference on Computer Vision (ICCV), 2025
- ICCV 2025 **SViM3D: Stable Video Material Diffusion for Single Image 3D Generation**  
Andreas Engelhardt, Mark Boss, Vikram Voleti, [Chun-Han Yao](#), Hendrik Lensch, Varun Jampani  
International Conference on Computer Vision (ICCV), 2025
- ICLR 2025 **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)  
International Conference on Learning Representations (ICLR), 2025
- 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

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## Research and Work Experience

Senior Research Scientist **Waymo**, CA, USA  
 ○ Feb. 2026 – Present  
 ○ Manager: Chiyu Max Jiang  
 ○ Project: World Models for Autonomous Vehicles

Research Scientist, 3D **Stability AI**, CA, USA  
 ○ Jan. 2024 – Jan. 2026  
 ○ Manager: Varun Jampani  
 ○ Project: 3D and 4D generation

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

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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

- Manager **Varun Jampani**, *Lead Researcher*, Stability AI  
✉ [varunjampani@gmail.com](mailto:varunjampani@gmail.com) [i](#)
- 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](#)