

Chun-Han Yao

Curriculum Vitae

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Education

- Ph.D. Candidate **University of California, Merced, CA, USA**
2019 – Present, Electrical Engineering and Computer Science
Vision and Learning Lab [📄 link](#)
Advisor: Ming-Hsuan Yang
- 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

- WACV 2022 **Federated Multi-Target Domain Adaptation** [📄 link](#)
[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** [📄 link](#)
[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** [📄 link](#)
[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** [📄 link](#)
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** [📄 link](#)
[Chun-Han Yao](#), Chia-Yang Chang, Shao-Yi Chien
ACM Multimedia (MM), 2017
- ICME 2016 **Example-based Video Color Transfer** [📄 link](#)
[Chun-Han Yao](#), Chia-Yang Chang, Shao-Yi Chien
IEEE International Conference on Multimedia and Expo (ICME), 2016

Research and Work Experience

- Research Intern **Adobe Research, San Jose, CA, USA**
 - Mar. 2021 –
 - Mentor: Jimei Yang
 - Topic: Dense 3D Human Pose
- Research Intern **Google Research, Mountain View, CA, USA**
 - Mar. 2020 – Mar. 2021
 - Mentor: Boqing Gong
 - Topic: Domain Adaptation in Federated Learning

- Research Intern **Bytedance AI Lab**, Palo Alto, CA, USA
 - Mar. 2019 – Aug. 2019
 - Mentors: Xiaohui Shen, Chen Fang, Yangyue Wan
 - Topic: Real-time Video Object Detection by Tracking
- Research Assistant **CSE, University of California, San Diego**, CA, USA
 - Mar. 2018 – Dec. 2018
 - Advisor: Manmohan Chandraker
 - Topic: 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
 - Project: Content Extraction from Coupon 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
 - Topics: BCG and fMRI Brain Image Analysis, System Power Optimization
- Research Intern **DT42**, Taipei, Taiwan
 - Apr. 2017 – Aug. 2017
 - Topic: 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
 - Topics: Video Temporal Consistency, Computational Photography, Multimedia
- Research Assistant **MediaTek**, Taipei, Taiwan
 - Aug. 2015 – Sep. 2016
 - Advisor: Hung-Yu Wei
 - Topic: Scheduling and Power Allocation for Millimeter-wave Mobile Wireless Networks

Course Projects

- Reinforcement Learning **Imitation Learning from Sub-optimal Demonstrations**, UCSD, CA
 - Mar. 2018 – Jun. 2018
 - Instructor: Michael Yip
 - Extended DDPG with augmented loss and adaptive exploration for tasks in OpenAI Gym (Python)
- Neural Networks **Nuclei Segmentation for Diverse Medical Images**, UCSD, CA
 - Jan. 2018 – Mar. 2018
 - Instructor: Garison Cottrell
 - Achieved 0.413 mAP (top 10% on Kaggle leaderboard) with U-Net and FCN (Python)
- Convex Optimization **3D Shape Estimation via Convex Relaxation Methods**, UCSD, CA
 - Jan. 2018 – Mar. 2018
 - Instructor: Chung-Kuan Cheng
 - Predicted 3D shape of human bodies from single images (MATLAB)

Honors and Awards

- Award **Undergraduate Innovation Award**, EE, National Taiwan University, Jun. 2016
Top 3 research projects
- Award **Presidential Award**, Award, National Taiwan University, Jan. 2009, Jun. 2009
Top 5% in the department

Teaching Experience

- Teaching Assistant **EECS, University of California**, Merced, CA, USA
- o CSE 185: Introduction to Computer Vision (Spring 2021)
 - o CSE 005: Introduction to Computer Applications (Fall 2020)
 - o CSE 140: Computer Architecture (Spring 2020)
 - o CSE 020: Introduction to Computing [Java Programming] (Fall 2019)

Technical Skills

- Programming Proficient (5+ years) in Python, C++
Familiar (2+ years) with Java, JavaScript, R, Verilog
- Toolbox/Software PyTorch, TensorFlow, MATLAB, OpenCV, Spark, LabVIEW
- Hardware FPGA, Arduino, USRP

References

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