

Tiantian Wang

Curriculum Vitae

Website: <https://tiantianwang.github.io>
University of California, Merced, CA 95343
☎ +1 2099471173
✉ twang61@ucmerced.edu

Education

- 2018 - Now: Ph. D. **University of California, Merced, CA, USA.**
Research Focus: Free-Viewpoint Human Video Generation with Diffusion Model;
Novel View Synthesis and Animated Human with Neural Radiance Fields
(NeRFs)/Gaussian Splatting, Video Matting.
Advisor: [Ming-Hsuan Yang](#) in Electrical Engineering and Computer Science.
- 2015 - 2018: M. S. **Dalian University of Technology, Dalian, PRC.**
Research Focus: Salient Object Detection.
- 2011 - 2015: B. S. **Dalian University of Technology, Dalian, PRC.**

Publication

- [Under review](#) **Towards 4D Human Video Stylization.**
TCSVT [Tiantian Wang](#), Xinxin Zuo, Fangzhou Mu, Jian Wang, Ming-Hsuan Yang.
- [Under review](#) **Neural Rendering of Humans in Novel View and Pose from Monocular Video.**
IJCV [Tiantian Wang](#), Nikolaos Sarafianos, Ming-Hsuan Yang, Tony Tung.
- ICCV 2021 **Video Matting via Consistency-Regularized Graph Neural Networks.**
[Tiantian Wang](#), Sifei Liu, Yapeng Tian, Kai Li, Ming-Hsuan Yang.
- ICCV 2019 **Deep Learning for Light Field Saliency Detection.**
[Tiantian Wang](#), Yongri Piao, Xiao Li, Lihe Zhang, Huchuan Lu.
- BMVC 2019 **Referring Expression Object Segmentation with Caption-Aware Consistency.**
Yi-Wen Chen, Yi-Hsuan Tsai, [Tiantian Wang](#), Yen-Yu Lin, Ming-Hsuan Yang.
- CVPR 2018 **Detect Globally, Refine Locally: A Novel Approach to Saliency Detection.**
[Tiantian Wang](#), Lihe Zhang, Shuo Wang, Huchuan Lu, Gang Yang, Xiang Ruan, Ali Borji.
- CVPR 2018 **Progressive Attention Guided Recurrent Network for Salient Object Detection.**
Xiaoning Zhang*, [Tiantian Wang](#)*, Jinqing Qi, Huchuan Lu, Gang Wang. * denotes equal contributions.
- ICCV 2017 **A Stagewise Refinement Model for Detecting Salient Objects in Images.**
[Tiantian Wang](#), Ali Borji, Lihe Zhang, Pingping Zhang, Huchuan Lu.
- ECCV 2016 **Kernelized Subspace Ranking for Saliency Detection.**

Tiantian Wang, Lihe Zhang, Huchuan Lu, Chong Sun, Jinqing Qi.

Research Experience

- Research Intern **Stability AI, San Francisco, California, CA, USA, Mar 2024 - Now.**
Research Focus: Photo-Realistic Free-viewpoint Human Video Generation with Diffusion Model.
Mentor: Chun-Han Yao, Mallikarjun Byrasandra, Varun Jampani.
- Research Intern **Snap Research, Los Angeles, CA, USA, Aug 2021 - Mar 2022.**
Research Focus: 3D Human Reconstruction, Human Performer Stylization.
Mentor: Jian Wang.
- Research Scientist Intern **Facebook Reality Lab Research, Sausalito, CA, USA, Jan 2021 - July 2021.**
Research Focus: Neural Representation Learning of Human Body.
Mentor: Tony Tung, Nikolaos Sarafianos.
- Research Intern **Adobe Research, San Jose, CA, USA, May 2019 - Aug 2019.**
Research Focus: Deep Video Matting.
Mentor: Brian Price, Joon-Young Lee, Ning Xu, Scott Cohen.
- Research Assistant **University of California, Merced, CA, USA, Aug 2018 - Present.**
Research Focus: Instance Segmentation & Video Matting & Reconstruction.
Advisor: Ming-Hsuan Yang.

Professional Service

- Conference Reviewer: International Conference on Learning Representations (ICLR).
Conference on Computer Vision and Pattern Recognition (CVPR).
Association for the Advancement of Artificial Intelligence (AAAI).
Winter Conference on Applications of Computer Vision (WACV).
European Conference on Computer Vision (ECCV).
International Conference on Computer Vision (ICCV).
- Journal Reviewer: ACM Transactions on Graphics (ToG).
IEEE Transactions on Visualization and Computer Graphics (TVCG).
IEEE Transactions on Neural Networks and Learning Systems (TNNLS).
IEEE Transactions on Multimedia (TMM).


Honor and Award

- Graduate Dean's Dissertation Fellowship, 2024.**
Outstanding Reviewer of CVPR, 2021.

Technical Skill

- Language: Python, MATLAB, C/C++, LATEX.
Framework: Pytorch, Caffe, Tensorflow.
Other Tools: Vim, Git.

Reference

- Ph.D. Advisor: **Ming-Hsuan Yang** , Professor, University of California, Merced.