

HAOTIAN ZHANG

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EMPLOYMENT

NVIDIA Research Scientist	Oct. 2023 – Present Santa Clara, USA
NVIDIA Research Scientist Intern	Jun. 2022 – Sep. 2022 Santa Clara, USA
Adobe Research Research Intern	Jun. 2018 – Dec. 2018 San Jose, USA

EDUCATION

Stanford University Ph.D. in Computer Science	Sept. 2017 – Sept. 2023 <i>Adviser: Prof. Kayvon Fatahalian</i>
Tsinghua University B.S. of Eng. in Computer Science	Aug. 2013 – Jun. 2017 <i>Adviser: Prof. Shi-Min Hu</i>

PUBLICATION

1. “*Learning Physically Simulated Tennis Skills from Broadcast Videos*”, **Haotian Zhang**, Ye Yuan, Viktor Makoviychuk, Yunrong Guo, Sanja Fidler, Xue-Bin Peng, Kayvon Fatahalian, Transactions on Graphics (TOG) 2023
2. “*Spotting Temporally Precise, Fine-Grained Events in Video*”, James Hong, **Haotian Zhang**, Michaël Gharbi, Matthew Fisher, Kayvon Fatahalian, European Conference on Computer Vision (ECCV) 2022
3. “*Vid2Player: Controllable Video Sprites that Behave and Appear like Professional Tennis Players*”, **Haotian Zhang**, Cristobal Sciutto, Maneesh Agrawala, Kayvon Fatahalian, Transactions on Graphics (TOG) 2021
4. “*Analysis of Faces in a Decade of US Cable TV News*”, James Hong, Will Crichton, **Haotian Zhang**, Daniel Y. Fu, Jacob Ritchie, Jeremy Barenholtz, Ben Hannel, Xinwei Yao, Michaela Murray, Geraldine Moriba, Maneesh Agrawala, Kayvon Fatahalian, ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD) 2021
5. “*Coherent Video Generation for Multiple Hand-held Cameras with Dynamic Foreground*”, Fang-Lue Zhang, Connelly Barnes, **Haotian Zhang**, Junhong Zhao, Gabriel Salas, Computational Visual Media 2020
6. “*An Internal Learning Approach for Video Inpainting*”, **Haotian Zhang**, Long Mai, Ning Xu, Zhaowen Wang, John Collomosse, Hailin Jin, IEEE International Conference on Computer Vision (ICCV) 2019
7. “*TextureNet: Consistent Local Parametrizations for Learning from High-Resolution Signals on Meshes*”, Jingwei Huang, **Haotian Zhang**, Li Yi, Thomas Funkhouser, Matthias Niessner, Leonidas Guibas, IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2019 (Oral Presentation)
8. “*Rekall: Specifying Video Events using Compositions of Spatiotemporal Labels*”, Dan Fu, Will Crichton, James Hong, Xinwei Yao, **Haotian Zhang**, Anh Truong, Avaniika Narayan, Maneesh Agrawala,

Christopher Ré, Kayvon Fatahalian, ACM Symposium on Operating Systems Principles (SOSP), AI Systems Workshop 2019

9. “*Image-based Clothes Changing System*”, Zheng-Zhao Heng, **Haotian Zhang**, Fang-Lue Zhang, Tai-Jiang Mu, Computational Visual Media 2017
10. “*Robust Background Identification for Dynamic Video Editing*”, Fang-Lue Zhang, Xian Wu, **Haotian Zhang**, Jue Wang, Shi-Min Hu, ACM SIGGRAPH Asia 2016

PATENT

1. “*Video Inpainting with Deep Internal Learning*”, Haotian Zhang, Long Mai, Ning Xu, Zhaowen Wang, Hailin Jin, John Collomosse, 2021, U.S. Patent No. 11055828.

TEACHING

Stanford CS248: Interactive Computer Graphics

Winter 2021,2022

PROFESSIONAL SERVICE

Conference Reviewer: CVPR, ICCV, ECCV, WACV

Journal Reviewer: MM, TIP, SPL

SKILLS

Programming: Python, C++, Java(Android), JavaScript, Matlab

Tools and libraires: Pytorch, Issac Gym, OpenCV, OpenGL, Blender