

Zhiyang (Frank) Dou

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Bio. I am a third-year Ph.D. candidate in CG and CV Group at the University of Hong Kong, supervised by *Prof. Wenping Wang* and *Prof. Taku Komura*. I received my B. Eng. degree with honors at Shandong University. My undergraduate research advisor is *Prof. Shiqing Xin*.

Research interests : Character Animation, Geometry Processing, Computer Graphics.

Education

Aug 2020 – Present **Ph.D. in CG and CV, Computer Science**, *The University of Hong Kong*.

Sep 2016 – June 2020 **Computer Science Honours, Computer Science (Elite Program)**, *Shandong University*.

Research Work

- > **E-ASE : Conditional Adversarial Skill Embeddings for Elite Physics-based Characters**
Zhiyang Dou, Xuelin Chen, Qingnan Fan, Taku Komura, Wenping Wang.
Under review at **SIGGRAPH 2023**.
- > **Globally Consistent Normal Orientation for Point Clouds by Regularizing the Winding-Number Field**
Rui Xu, Zhiyang Dou, Ningna Wang, Shiqing Xin, Xiaohu Guo, Wenping Wang.
Under review at **SIGGRAPH 2023**.
- > **TORÉ : Token Reduction for Efficient Human Mesh Recovery with Transformer**
Zhiyang Dou*, Qingxuan Wu*, Cheng Lin, Zeyu Cao, Qiangqiang Wu, Weilin Wan, Taku Komura, Wenping Wang.
Submitted to **ICCV 2023**.
- > **RFEPS : Reconstructing a Feature-line Equipped Polygonal Surface from Unoriented Point Cloud**
Rui Xu, Zixiong Wang, Zhiyang Dou, Chen Zong, Shiqing Xin, Mingyan Jiang, Changhe Tu.
ACM Transactions on Graphics. SIGGRAPH Asia 2022.
- > **Coverage Axis : Inner Point Selection for 3D Shape Skeletonization**
Zhiyang Dou, Cheng Lin, Rui Xu, Lei Yang, Shiqing Xin, Taku Komura, Wenping Wang.
Computer Graphics Forum. Eurographics 2022.
- > **Close Contact Behaviors of University and School Students in 10 Typical Indoor Environments**
Nan Zhang, Li Liu, Zhiyang Dou, Xiyue Liu, Xueze Yang, Yong Guo, Silan Gu, Yuguo Li, Hua Qian, Jianjian Wei.
Accepted to **ACS Environmental Science & Technology, IF=11.4, 2022**.
- > **Student close contact behavior and COVID-19 transmission in China's classrooms**
Yong Guo*, Zhiyang Dou*, Nan Zhang, Xiyue Liu, Boni Su, Yuguo Li, Yinping Zhang.
Under Review at **PNAS Nexus, 2022**.
- > **Real Close Contact Behavior-based COVID-19 Transmission and Interventions in Subway**
Xiyue Liu*, Zhiyang Dou*, Lei Wang, Boni Su, Tianyi Jin, Yong Guo, Jianjian Wei, Nan Zhang.
Journal of Hazardous Materials (JHM), IF=14.2, 2022.
- > **Top-Down Shape Abstraction Based on Greedy Pole Selection**
Zhiyang Dou, Shiqing Xin, Rui Xu, Jian Xu, Yuanfeng Zhou, Shuangmin Chen, Wenping Wang, Xiuyang Zhao, Changhe Tu.
IEEE Transactions on Visualization and Computer Graphics (TVCG), 2021.

*Equal contribution

Scholarships

- > Oct 2020 **Postgraduate Scholarship**.
- > Oct 2019 **National Scholarship** (0.2%).
- > Oct 2018 **National Scholarship** (0.2%).
- > Dec 2018 **Presidential Scholarship** (top 30 at the University).

Patents & Competitions

- > [Patent] Method, device and process for hand-to-surface contact detection, 2023, Under Review.
- > [Patent] Method, Device and Process for Detecting Distance Between Persons, 2020, **Patent CN202110334126**
- > Meritorious Winner, **International Mathematical Modeling Contest : MCM**, 2019.
- > Meritorious Winner, **International Mathematical Modeling Contest : ICM**, 2018.
- > National First Prize (1%), **National Collegiate Mathematical Modeling Contest**, 2019.
- > National First Prize, Best Paper (8/38573), **National Collegiate Mathematical Modeling Contest**, 2018.

☰ Services & Internships

2022-Present	Research Intern at Tencent AI Lab .
2021-2022	Graduate House Junior Resident Tutor.
2020-2022	Teaching Assistant of COMP3362-22 Hands-on AI & COMP2120 Computer Organization.
2019-2020	Teaching Assistant of SD01331421 Machine Learning.
2018-2019	Co-founder of Open Interest Lab (IPLab) at SDU (By 2022, we have more than 120 members).
2018-2019	Research Intern at Peking University Computer Center . Mentor : <i>Rongbin Ouyang</i> .