

# Zhiyang (Frank) Dou

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**Bio.** I am a third-year Ph.D. student in CG and CV Group at The University of Hong Kong. My supervisors are *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.  
Under review at **CVPR 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.  
Accepted to **SIGGRAPH Asia, Journal Track, 2022**.
- > **Coverage Axis : Inner Point Selection for 3D Shape Skeletonization**  
**Zhiyang Dou**, Cheng Lin, Rui Xu, Lei Yang, Shiqing Xin, Taku Komura, Wenping Wang.  
Accepted to **EuroGraphics, 2022**; Published in **Computer Graphics Forum (CGF), 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=9.028, 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.  
Published in **Journal of Hazardous Materials (JHM), IF=10.588, 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.  
Published in **IEEE Transactions on Visualization and Computer Graphics (TVCG), 2021**.

\*Equal contribution

## Patents & Competitions

- > **Method, Device and Process for Detecting Distance Between Persons, 2020, Patent CN202110334126**
- > **First Prize (Meritorious Winner), International Mathematical Modeling Contest : MCM, 2019.**
- > **First Prize (Meritorious Winner), International Mathematical Modeling Contest : ICM, 2018.**
- > **National First Prize (295/39293), National Collegiate Mathematical Modeling Contest, 2019.**
- > **National First Prize, Excellent Paper (8/38573), National Collegiate Mathematical Modeling Contest, 2018.**

## Services & Internships

2022-Present	Research Intern at <a href="#">Tencent AI Lab</a> .
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	Chairman & Co-founder of Open Interest Lab (IPLab) at SDU (By 2022, we have more than 120 members).
2018-2019	Research Intern at <a href="#">Peking University Computer Center</a> . Mentor : <a href="#">Rongbin Ouyang</a> .

## Scholarships

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Oct 2020	<b>Postgraduate Scholarship.</b>
Oct 2019	<b>National Scholarship</b> (0.2%).
Oct 2018	<b>National Scholarship</b> (0.2%).
Dec 2018	<b>Presidential Scholarship</b> (30/43000 UGs at SDU).
Apr 2019	<b>Outstanding UnderGraduate in Shandong Province.</b>
Nov 2018	<b>The Outstanding Role Model of Students</b> (20/60000 UGs and PGs at SDU).
Oct 2017	<b>WeiChai Power Scholarship</b> (1/155 UGs at SDUCS).