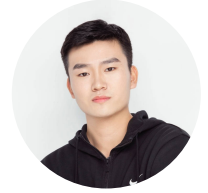# Zhiyang (Frank) **Dou**

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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**.

> **TORE : 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 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	Chairman & 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 : *Rongbin Ouyang*.

♦ Scholarships

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