

# Fanpeng (Frank) Meng

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## Education

<b>The Chinese University of Hong Kong, Shenzhen</b> – M.Phil. in Computer & Information Engineering. – Advisor: <b>Prof. Xiaoguang Han.</b>	Sep. 2023 - Jun. 2025 Shenzhen, China
<b>Huazhong University of Science &amp; Technology (HUST)</b> – B.Eng. in Automation.	Sep. 2019 - Jun. 2023 Wuhan, China

## Publications

\*: equivalent contribution, #:corresponding author.

- **FDiff: A Generative Diffusion Model from a Force Field Perspective to Target Requirements**  
Weiyang Jin, **Fanpeng Meng**, Yongpei Zhu, Yuxi Peng  
(Under-review) *Thirty-Eighth AAAI Conference on Artificial Intelligence* (2024)
- **3D-Aware Object Goal Navigation via Simultaneous Exploration and Identification**  
Jiazhao Zhang\*, Liu Dai\*, **Fanpeng Meng**, Qingnan Fan, Xuelin Chen, Kai Xu, He Wang#  
*IEEE/CVF Conference on Computer Vision and Pattern Recognition 2023*

## Academic Experience

<b>Peking University</b> Research Intern at EPIC-Lab, Center on Frontiers of Computing Studies Advisor: <b>Prof. He Wang</b> Topic: Embodied AI & 3D Scene Understanding	Mar. 2022 - Oct. 2022 Beijing, China
<b>University of Cambridge</b> Summer Research Program on Artificial Intelligence Advisor: <b>Prof. Pietro Lio</b> Project: Human-tracking Robot in Crowded Situation. <b>Grade: A+; Rank: 1/26.</b>	Sep. 2021 - Oct. 2021 Remote

## Extra Experience

<b>Suzhou Zhito Technology</b> Algorithm Engineer Intern at AI Lab, advised by <b>Dr. Jiali Bao.</b>	Jul. 2021 - Sep. 2021 Shanghai, China
<b>Changchun Yidong Clutch CO.,LTD</b> Software Engineer Intern at Suzhou R&D Center, advised by <b>Dr. Xianping Xie</b>	Jan. 2021 - Mar. 2021 Suzhou, China

## Entrepreneurship

<b>Wuhan Pivot Technology</b> CEO & Co-founder, working on AIGC.	Aug. 2022 - Present Wuhan, China
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## Scholarships and Awards

Scholarship for Self-improvement, HUST;	2022, 2020
Scholarship for Scientific and Technological Innovation, HUST;	2020
National Olympiad in Informatics in Provinces (NOIP); <b>First Prize</b>	2018

## Skills

- **Programming:** Python, C/C++, Matlab, Git, L<sup>A</sup>T<sub>E</sub>X.
- **Tools:** Linux, OpenCV, Pytorch, Habitat Simulator, Blender, Stable Diffusion.
- **Skills:** SLAM, Computer Vision, Deep Learning, Embodied AI.
- **Languages:** (English) TOEFL(107), GRE(332).