

## EDUCATION

---

- **Peking University** Beijing, China  
*Bachelor of Science - Turing Class of 2021, EECS; Summa Cum Laude* July 2017 - June 2021  
*Courses:* Advanced Algebra(100/100), Discrete Mathematics(99/100), Mathematical Analysis, Convex Optimization, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning
- **Peking University** Beijing, China  
*Turing Phd - Center on Frontiers of Computing Science; Supervised by Asst. Prof. Hao Dong* July 2021 - present

## PUBLICATIONS

---

- **TarGF: Learning Target Gradient Field to Rearrange Objects without Explicit Goal Specification:**  
Mingdong Wu\*, Fangwei Zhong\*, Yulong Xia, Hao Dong, *NeurIPS 2022*.
- **GFPose: Learning 3D Human Pose Prior with Gradient Fields:**  
Hai Ci, Mingdong Wu, Wentao Zhu, Xiaoxuan Ma, Hao Dong, Fangwei Zhong, Yizhou Wang, *CVPR 2023*.
- **SA2VAN: Learning Semantic-Agnostic and Spatial-Aware Representation for Generalizable Visual-Audio Navigation:**  
Hongcheng Wang, Yuxuan Wang, fangwei zhong, Mingdong Wu, Yizhou Wang, Hao Dong, *RAL 2023*.
- **Score-PA: Score-based 3D Part Assembly:**  
Junfeng Cheng, Mingdong Wu, Ruiyuan Zhang, Guanqi Zhan, Chao Wu, Hao Dong, *BMVC 2023 (Oral)*.
- **GenPose: Generative Category-level Object Pose Estimation via Diffusion Models:**  
Jiyao Zhang\*, Mingdong Wu\*, Hao Dong, *NeurIPS 2023*.
- **Learning Score-based Grasping Primitive for Human-assisting Dexterous Grasping:**  
Tianhao Wu\*, Mingdong Wu\*, Jiyao Zhang, Yunchong Gan, Hao Dong, *NeurIPS 2023*.
- **Learning Gradient Fields for Scalable and Generalizable Irregular Packing:**  
Tianyang Xue\*, Mingdong Wu\*, Lin Lu, Haoxuan Wang, Hao Dong, Baoquan Chen, *SIGGRAPH Asia 2023*.
- **Find What You Want: Learning Demand-conditioned Object Attribute Space for Demand-driven Navigation:**  
Hongcheng Wang, Guanhong Chen, Xiaoqi Li, Mingdong Wu, Hao Dong, *NeurIPS 2023*.
- **DualGF: Example-driven Planning via Dual Gradient Fields:**  
Mingdong Wu, Fangwei Zhong, Yulong Xia, Yizhou Wang, Hao Dong, *submitting to ICLR 2024*.
- **SocialGFs: Learning Social Gradient Fields for Multi-Agent Reinforcement Learning:**  
Qian Long, Fangwei Zhong, Mingdong Wu, Yizhou Wang, Song-Chun Zhu, *submitting to ICLR 2024*.
- **Distilling Functional Rearrangement Priors from Large Models:**  
Yiming Zeng\*, Mingdong Wu\*, Long Yang, Jiyao Zhang, Hao Ding, Hui Cheng, Hao Dong, *submitting to ICRA 2024*.

## INVITED TALKS

---

- May 2023, *Lightning Talk: Learning Target Gradient Fields for Object Rearrangement*, Turing Student Research Forum
- May 2023, *Tutorial: Embracing Diffusion Models and Gradient Field Planners*, Turing Student Research Forum
- Nov 2022, *Live Talk: Learning Target Gradient Fields for Object Rearrangement*, ZHIDX AI New Youth Talk
- Nov 2022, *Learning Target Gradient Fields for Object Rearrangement*, Beijing Institute for General Artificial Intelligence
- Oct 2022, *Learning Gradient Fields for Object Rearrangement*, CMU Safe AI Laboratory

## INTERNSHIP

---

- Beijing Institute for General Artificial Intelligence (BIGAI), July 2022 - Aug 2023

## HONORS AND AWARDS

---

- *Best Tutorial Award*, Turing Student Research Forum, May 2023
- *Best Poster Award*, Turing Student Research Forum, May 2023
- *BIGAI's Rising Star Award, 1st*, Jan 2023
- *Ubiquant Investment Scholarship*, Ubiquant Investment (Beijing), May 2019
- *Peking University's Third-class Scholarship*, Peking University, May 2018

## PROFESSIONAL SERVICES

---

- ICLR 2024 Reviewer, Aug 2023
- NeurIPS 2023 Reviewer, May 2023