

Mengfei Du

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Mengfei Du is currently a member of the RoboBrain Team. His research interests include Large Vision-Language Models and Embodied AI.

In February 2026, he will join the HKUST as a Ph.D. candidate in the Individualized Interdisciplinary Program (IIP), co-advised by Prof. Shanghang Zhang and Prof. Yike Guo.

EDUCATION

Fudan University , <i>MPhil in Statistics</i> Shanghai, China	June 2025
Fudan University , <i>BSc in Data Science</i> Shanghai, China	June 2022

EXPERIENCE

BAAI RoboBrain Team , <i>Team Member</i> Beijing, China	Jul 2025 - Now
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- Participated in the development of the embodied VLM **RoboBrain2.0** and the foundation VLA model **RoboBrain-X0**. Contributed to building an end-to-end pipeline for real-robot data collection, annotation, training data processing, and model pretraining, and helped establish an atomic-skill-based evaluation framework on real robotic platforms including Franka, A2D, R1lite, and Agilex.
- Adviser: Prof. Shanghang Zhang

ByteDance Seed Team , <i>Research Intern</i> Beijing, China	Jan 2025 - Jun 2025
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- Explored SeedVL-based VLA model training for embodied AI, developed embodied data processing pipelines, and built experiments on major simulation platforms, achieving state-of-the-art performance on multiple embodied benchmarks such as LIBERO, SimplerEnv and Robocasa.
- Adviser: Dr. Wenqian Wang

Alibaba TongYi Lab , <i>Research Intern</i> Hangzhou, China	Apr 2024 - Dec 2024
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- Contributed to the development of **Qwen2-VL** based general multimodal agent. Engaged in pre-training, instruction-tuning, and performance evaluation to enhance the agent's capabilities across various tasks, including household activities, vision-and-language navigation, GUI navigation and card games. Achieved state-of-the-art performance in tasks such as card games and GUI navigation.
- Adviser: Dr. Zhihao Fan

Data Intelligence and Social Computing (DISC) Lab , <i>Team Member</i> Shanghai, China	Jan 2022 - Jun 2025
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- Built **EmbSpatial-Bench**, a benchmark for assessing spatial understanding in LVLMs, adopted by Baichuan-Omni-1.5, Roblox, Gemini Robotics 1.5, and Qwen3-VL.
- Participated in the design and construction of **ReForm-Eval**, an LVLm evaluation benchmark covering eight capability dimensions and featuring an evaluation sample size over ten times larger than current benchmarks.
- Proposed a plug-and-play module, **DELAN**, based on cross-modal contrastive learning for vision-and-language navigation, achieving a 2–4% performance improvement across four widely used benchmarks.
- Adviser: Prof. Zhongyu Wei

PAPERS

- [1] BAAI RoboBrain Team, “RoboBrain 2.0 Technical Report”, arXiv:2507.02029, 2025.
- [2] Dong Guo, Faming Wu, ..., **Mengfei Du**, ..., Wenli Yang, Wenzhi Wang, “Seed1.5-VL Technical Report”, arXiv:2505.07062, 2025.
- [3] Peng Wang[†], Shuai Bai[†], Sinan Tan[†], Shijie Wang[†], Zhihao Fan[†], Jinze Bai^{*†}, Keqin Chen, Xuejing Liu, Jialin Wang, Wenbin Ge, Yang Fan, Kai Dang, **Mengfei Du**, Xuancheng Ren, Rui Men, Dayiheng Liu, Chang Zhou, Jingren Zhou, Junyang Lin*, “Qwen2-VL: Enhancing Vision-Language Model’s Perception of the World at Any Resolution”, arXiv:2409.12191, 2024.
- [4] **Mengfei Du**[†], Binhao Wu[†], Zejun Li, Xuanjing Huang, Zhongyu Wei*, “EmbSpatial-Bench: Benchmarking Spatial Understanding for Embodied Tasks with Large Vision-Language Models”, ACL Main, 2024.
- [5] Zejun Li[†], Ye Wang[†], **Mengfei Du**[†], Qingwen Liu[†], Binhao Wu[†], Jiwen Zhang[†], Chengxing Zhou, Zhihao Fan, Jie Fu, Jingjing Chen, Xuanjing Huang, Zhongyu Wei*, “ReForm-Eval: Evaluating Large Vision Language Models via Unified Re-Formulation of Task-Oriented Benchmarks”, ACM MM, 2024.
- [6] **Mengfei Du**[†], Binhao Wu[†], Jiwen Zhang, Zhihao Fan, Xuanjing Huang, Zhongyu Wei*, “DELAN: Dual-Level Alignment for Vision-and-Language Navigation by Cross-Modal Contrastive Learning”, COLING, 2024.

SELECTED HONORS

Excellent Graduate Award, Shanghai	2025
China National Scholarship	2024
Excellent Graduate Award, Fudan University	2022
Wangdao Scholar (Fudan University Undergraduate Academic Research Funding Program)	2022