

Bangde Du

LLM Post-Training · Personalization

Singapore · dbd23@mails.tsinghua.edu.cn · bangdedu.com · Google Scholar

EDUCATION

Tsinghua University

Ph.D. in Computer Science | Advisor: Prof. Yiqun Liu

Aug 2023 – 2028 (expected)

National University of Singapore

Visiting Ph.D. Student | Host: Prof. Chua Tat-Seng

Sep 2026 – Present

Tsinghua University

B.Eng. in Automation

Sep 2019 – Jul 2023

INDUSTRY EXPERIENCE

Tencent Hunyuan

Research Intern | Project Up (Qingyun Talent Program)

May 2026 – Present

LLM Post-training for Personalized Memory

- **Personalized memory use.** Developed SFT data from teacher-model outputs for task continuity and user-specific interactions, and refined model-based evaluation rubrics. The data was used in Hunyuan post-training.
- **Offline memory selection.** Owned training and evaluation of a model for selecting memories to retain during offline updates, covering reward design, full-parameter SFT, and GRPO.

SELECTED RESEARCH

SimVBG: Individual Value Simulation

First author

EMNLP 2025 (Main)

[Paper](#) · [Code](#)

- Proposed a backstory-based framework for simulating individual values; led its development and evaluation against retrieval-based methods on a benchmark derived from the World Values Survey.

TwinVoice: Persona Simulation Benchmark

Co-first author

Findings of ACL 2026

[Project](#) · [Paper](#) · [Code](#)

- Designed and led the development of a benchmark spanning social, interpersonal, and narrative personas to evaluate LLM persona simulation.
- Structured evaluation around six capabilities: memory recall, logical reasoning, opinion consistency, lexical fidelity, persona tone, and syntactic style.

TECHNICAL SKILLS

Post-training & evaluation: SFT, GRPO, distillation, LLM-based evaluation.

Tools: Python, PyTorch, NumPy, pandas, Linux, Git, SSH.

HONORS & AWARDS

Tsinghua Friends – Bosch Talent Scholarship, First Class

2025–2026

University-level Scholarship, Tsinghua University

2022

Publications

*Equal contribution.

FIRST-AUTHOR PUBLICATIONS

1. **TwinVoice: A Multi-dimensional Benchmark Towards Digital Twins via LLM Persona Simulation**
Bangde Du^{*}, Minghao Guo^{*}, Songming He, Ziyi Ye, Xi Zhu, Weihang Su, Shuqi Zhu, Yujia Zhou, Yongfeng Zhang, Qingyao Ai, Yiqun Liu
Findings of ACL 2026
2. **SimVBG: Simulating Individual Values by Backstory Generation**
Bangde Du, Ziyi Ye, Zhijing Wu, Monika A. Jankowska, Shuqi Zhu, Qingyao Ai, Yujia Zhou, Yiqun Liu
EMNLP 2025 | Main Conference
3. **Understanding the Effect of Opinion Polarization in Short Video Browsing**
Bangde Du, Ziyi Ye, Zhijing Wu, Monika Jankowska, Qingyao Ai, Yiqun Liu
SIGIR 2025
4. **EEG reveals the cognitive impact of polarized content in short video scenarios**
Bangde Du, Ziyi Ye, Monika Jankowska, Zhijing Wu, Qingyao Ai, Yujia Zhou, Yiqun Liu
Scientific Reports | 2025

CO-AUTHORED PUBLICATIONS

5. **Retrieval Gradients: Continual Post-Training Without Cumulative Weight Drift**
Weihang Su, Jiacheng Kang, Jingyan Xu, Qingyao Ai, Jianming Long, Hanwen Zhang, **Bangde Du**, Xinyuan Cao, Min Zhang, Yiqun Liu
EMNLP 2026 | Main Conference
6. **Parametric Social Identity Injection and Diversification in Public Opinion Simulation**
Hexi Wang, Yujia Zhou, **Bangde Du**, Qingyao Ai, Yiqun Liu
KDD 2026
7. **How do Humans Process AI-generated Hallucination Contents: a Neuroimaging Study**
Shuqi Zhu, Yi Zhong, Ziyi Ye, **Bangde Du**, Yujia Zhou, Qingyao Ai, Yiqun Liu
ICML 2026

MANUSCRIPTS UNDER REVIEW

8. **Mitigating Identity Essentialism in LLM Agents with Longitudinal Life Trajectories**
Hexi Wang, Yujia Zhou, **Bangde Du**, Weihang Su, Xinyuan Cao, Qingyi Pan, Qingyao Ai, Yueyue Wu, Min Zhang, Yiqun Liu
Under review at AAAI 2027
9. **Composable Parametric Demographic Injection for Values Survey Simulation**
Xinyuan Cao, Qingyi Pan, **Bangde Du**, Yujia Zhou, Hexi Wang, Weihang Su, Yiqun Liu, Yueyue Wu, Min Zhang, Qingyao Ai
Under review at AAAI 2027