

# Ruihan Yang

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## EDUCATION

**Ph.D. in Statistics** (Supervisor: Deqing Yang)  
**Ph.D. in Applied Mathematics**  
**B.S. in Mathematics and Applied Mathematics**

Fudan University, 2023-2027 (expected)  
Fudan University, 2021-2023  
Fudan University, 2017-2021

## EXPERIENCE

- Moonshot AI RL Team** Beijing, China  
*Research Intern, Supervisor: Longhui Yu*  
**Research Topic:** Developing agentic intelligence through reinforcement learning (K2.5 post-train)  
*Oct. 2025 - Present*
- Tencent Hunyuan AI Digital Human** Shenzhen, China  
*Research Intern, Supervisor: Fanghua Ye, Jian Li*  
**Research Topic:** Agent Learning  
*Oct. 2024 - Oct. 2025*
- Tencent AI Lab** Shenzhen, China  
*Research Intern, Supervisor: Leyang Cui, Zhisong Zhang*  
**Research Topic:** Long-Form Uncertainty Expression  
*March 2024 - Oct. 2024*

## SELECTED AWARDS

- National Scholarship for Graduate Students (Top 1%)** *Oct. 2022*
- Fudan University Excellent Student Award** *2021-2025*

## PUBLICATIONS

[\*]: Equal Contribution]

### [1] **KIMI K2.5: VISUAL AGENTIC INTELLIGENCE**

Ruihan Yang as a contributor to Tool-Integrated Reasoning for Kimi K2.5 (**first HLE reach 50+**)  
Technical Report, Preprint, 2025.

### [2] **Think Fast and Slow: Step-Level Cognitive Depth Adaptation for LLM Agents**

**Ruihan Yang**, Fanghua Ye, Xiang Wei, Xinbo Xu, Xiaqiang Tang, Bo Zhao, Shanyi Wang, Zhaopeng Tu, Xiaolong Li, Deqing Yang  
Long Paper, submitted to: ICML 2026.

### [3] **Confidence Estimation for LLMs in Multi-turn Interactions**

Caiqi Zhang\*, **Ruihan Yang**\*, Xiaochen Zhu, Chengzu Li, Tiancheng Hu, Yijiang Dong, Deqing Yang, Nigel Collier  
Long Paper, submitted to: ACL 2026.

### [4] **ARIA: Training Language Agents with Intention-Driven Reward Aggregation**

**Ruihan Yang**\*, Yikai Zhang\*, Aili Chen, Siyu Yuan, Jiangjie Chen, Deqing Yang, Yanghua Xiao  
Long Paper, in: NeurIPS 2025 (**Spotlight**).

### [5] **The Lighthouse of Language: Enhancing LLM Agents via Critique-Guided Improvement**

**Ruihan Yang**, Fanghua Ye, Jian Li, Siyu Yuan, Yikai Zhang, Zhaopeng Tu, Xiaolong Li, Deqing Yang  
Long Paper, in: NeurIPS 2025.

### [6] **UNCLE: Benchmark Uncertainty in Long-form Generation**

**Ruihan Yang**\*, Caiqi Zhang\*, Zhisong Zhang, Xinting Huang, Nigel Collier, Dong Yu, Deqing Yang  
Long Paper, in: EMNLP 2025.

### [7] **LoGU: Long-form Generation with Uncertainty Expressions**

**Ruihan Yang**\*, Caiqi Zhang\*, Zhisong Zhang, Xinting Huang, Sen Yang, Nigel Collier, Dong Yu, Deqing Yang  
Long Paper, in: ACL 2025.

### [8] **SelfGoal: Your Language Agents Already Know How to Achieve High-level Goals**

**Ruihan Yang**, Jiangjie Chen, Yikai Zhang, Siyu Yuan, Aili Chen, Kyle Richardson, Yanghua Xiao, Deqing Yang  
Long Paper, in: NAACL 2025.

### [9] **Atomic Calibration of LLMs in Long-Form Generations**

Caiqi Zhang, **Ruihan Yang**, Zhisong Zhang, Xinting Huang, Sen Yang, Dong Yu, Nigel Collier  
Long Paper, in: arXiv:2410.13246.

[10] **From Persona to Personalization: A Survey on Role-Playing Large Language Model Agents**

Jiangjie Chen\*, Xintao Wang\*, Rui Xu\*, Siyu Yuan\*, Yikai Zhang\*, Wei Shi\*, Jian Xie\*, Shuang Li, Ruihan Yang, Tinghui Zhu, Aili Chen, Nianqi Li, Lida Chen, Caiyu Hu, Siye Wu, Scott Ren, Ziquan Fu, Yanghua Xiao  
Journal paper, in: TMLR 2024.

[11] **GumbelSoft: Diversified Language Model Watermarking via the GumbelMax-trick**

Jiayi Fu, Xuandong Zhao, Ruihan Yang, Yuansen Zhang, Jiangjie Chen, Yanghua Xiao  
Long Paper, in: ACL 2024.

[12] **Computational and Neural Decomposition of Stop Signal Performance into Sustained Attention and Response Inhibition Elements: Theoretical and Clinical Implications**

Yilin Zhang\*, Zhaoyu Zuo\*, Ruihan Yang, Chao Xie, Wenjie Hou, Shitong Xiang, Tianye Jia, Tobias Banaschewski, Robert Whelan, Jianfeng Feng, Gunter Schumann, Trevor Robbins, Qiang Luo  
Journal paper, Under Review, Brain.

[13] **Dynamic neural reconfiguration for distinct strategies during competitive social interactions**

Ruihan Yang, Yina Ma, Bao-Bao Pan, Meghana A. Bhatt, Terry Lohrenz, Colin F. Camerer, Qiang Luo  
Journal paper, in: NeuroImage (IF=7.4).

## Academic Service

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Reviewer: ACL 2024, 2025; EMNLP 2024, 2025