

叶皓然

北京, 中国 | 出生年月: 2001.10 | 📞 (+86) 159-0515-0535 | ✉️ hrye@stu.pku.edu.cn

🌐 [个人主页](#) | [谷歌学术](#) | [GitHub](#) | [领英](#) | [小红书](#)



教育背景

- 北京大学 | 智能学院 | 智能科学与技术 (直博) 2024.09 – 2029.06 (预计)
- 班级综合排名 1/33 (连续两年); 导师: 宋国杰教授
- 苏州大学 | 计算机科学与技术学院 | 人工智能 (本科) 2020.09 – 2024.06
- 年级综合排名 1/250, 平均成绩 95/100

实习经历

- 月之暗面 (Moonshot AI) | Kimi RL 团队, 研究实习生 2026.03 – 至今
- 参与 Kimi K2.5 与 Kimi K3 系列模型研发; 提升模型在科学编程、通用工具调用、多轮与个性化交互等场景下的能力。

基金项目

- 国家自然科学基金青年学生基础研究项目 (博士研究生), 项目负责人 (学院同年唯一) 2025.12 – 至今
- 《通用心理测量大模型构建关键技术研究》: 构建通才测量大模型, 面向两类应用: (1) 自然人心理测量、行为预测与群体建模; (2) 智能体细粒度奖励建模。
- 中国科协青年人才托举工程博士生专项计划, 入选者 (学院唯二) 2025.12 – 至今
- 国家级大学生创新创业训练计划, 项目负责人 2022.06 – 2024.06
- 《基于元强化学习的配送路径动态优化算法研究》: 国家重点支持领域项目 (学院唯一); 结题获评最高等级 (优秀)。

论文发表

- 我的研究聚焦于通用的自进化智能体, 包括不可验证 (unverifiable) 领域中的人类价值对齐。
- Google Scholar 第一作者论文被引 1,100+ (截至 2026 年 9 月); 发表 CCF-A 类会议论文 13 篇 (第一作者 6 篇)。

自进化: 智能体能力的持续进化与内化

推动智能体在经验、技能、harness 与参数层面的自我进化。

- Harness-Zero: Harness Distillation via Agent-as-Harness** [link](#)
H. Ye, Y. Lu, H. Dong, Z. Su, G. Song. arXiv:2609.24974, 2026.
提出智能体 Harness 蒸馏, 通过 agent-as-harness 方法将优化后的外部 Harness 能力内化进模型权重; *AlphaXiv* 趋势榜 Top 10, 多家学术自媒体主动报道, Juergen Schmidhuber 教授 (LSTM 之父) 主动建联交流。
- Meta Context Engineering via Agentic Skill Evolution** [link](#)
H. Ye, X. He, V. Arak, H. Dong, G. Song. ICML 2026.
将上下文表示为文件与代码, 驱动上下文工程技能与上下文协同进化, 突破静态智能体 Harness 的限制; *AlphaXiv* 趋势榜 Top 3。
- ReEvo: Large Language Models as Hyper-Heuristics with Reflective Evolution** [link](#)
H. Ye, J. Wang, Z. Cao, F. Berto, C. Hua, H. Kim, J. Park, G. Song. NeurIPS 2024.
提出反思进化, 将 LLM 反思与进化计算结合, 用于开放式构造性搜索与 LLM 测试时扩展; 被 Google DeepMind 多篇论文引用, 包括 *AlphaEvolve*。
- NeuReasoner: Towards Explainable, Controllable, and Unified Reasoning via Mixture-of-Neurons** [link](#)
H. Dong, K. Jiang, H. Ye, W. Zhu, Z. Kang, G. Song. ACL 2026 Main, Oral.
- AutoEP: LLMs-Driven Automation of Hyperparameter Evolution for Metaheuristic Algorithms** [link](#)
Z. Xu, Y. Zhang, W. Bao, H. Wang, M. Chen, H. Ye, W. Jiang, H. Yan, J. Wang. ICLR 2026, Oral.
- VRPagent: LLM-Driven Discovery of Heuristic Operators for Vehicle Routing Problems** [link](#)
A. Hottung, F. Berto, C. Hua, N. G. Zepeda, D. Wetzal, M. Römer, H. Ye, D. Zago, et al. arXiv:2510.07073, 2025.

基准、评估与对齐

度量 LLM 与智能体的能力, 对齐其价值。

- Large Language Model Psychometrics: A Systematic Review of Evaluation, Validation, and Enhancement** [link](#)
H. Ye, J. Jin, Y. Xie, X. Zhang, G. Song. arXiv:2505.08245, 2025.
LLM 心理测量领域首个系统性综述。

- **Generative Psycho-Lexical Approach for Constructing Value Systems in Large Language Models** [link](#)
H. Ye, T. Zhang, Y. Xie, L. Zhang, Y. Ren, X. Zhang, G. Song. ACL 2025 Main.
构建 LLM 原生、可解释的价值体系，训练模型实现价值对齐。
- **Measuring Human and AI Values Based on Generative Psychometrics with Large Language Models** [link](#)
H. Ye, Y. Xie, Y. Ren, H. Fang, X. Zhang, G. Song. AAAI 2025.
训练价值测量大模型，建立人类与 AI 价值的统一测量框架。
- **ValueBench: Towards Comprehensively Evaluating Value Orientations and Understanding of LLMs** [link](#)
Y. Ren, H. Ye, H. Fang, X. Zhang, G. Song. ACL 2024 Main.
首个全面评估 LLM 价值取向与价值理解的基准。
- **Agent-ValueBench: A Comprehensive Benchmark for Evaluating Agent Values** [link](#)
H. Dong, Q. Feng, K. Jiang, H. Ye, X. Zhang, G. Song. arXiv:2605.10365, 2026.
- **Agents' Last Exam** [link](#)
Y. Sun, X. Han, W. Zhang, et al. (including H. Ye). NeurIPS 2026.

进化与优化基础

支撑自进化的优化机制，以及于组合优化等领域的应用。

- **DeepACO: Neural-Enhanced Ant Systems for Combinatorial Optimization** [link](#)
H. Ye, J. Wang, Z. Cao, H. Liang, Y. Li. NeurIPS 2023.
以图神经网络增强蚁群智能；被图灵奖得主 *Yoshua Bengio* 团队引用。
- **GLOP: Learning Global Partition and Local Construction for Solving Large-Scale Routing Problems in Real-Time** [link](#)
H. Ye, J. Wang, H. Liang, Z. Cao, Y. Li, F. Li. AAAI 2024.
可学习的全局划分 + 局部构造策略，实现大规模路径问题的实时求解。
- **RL4CO: An Extensive Reinforcement Learning for Combinatorial Optimization Benchmark** [link](#)
F. Berto, C. Hua, J. Park, L. Luttman, Y. Ma, F. Bu, J. Wang, H. Ye, M. Kim, et al. KDD 2025, Oral.
- **TransPlace: Transferable Circuit Global Placement via Graph Neural Network** [link](#)
Y. Hou, H. Ye, Y. Zhang, S. Xu, G. Song. KDD 2025.
- **RoutePlacer: An End-to-End Routability-Aware Placer with Graph Neural Network** [link](#)
Y. Hou, H. Ye, Y. Zhang, S. Xu, G. Song. KDD 2024.

工业界技术报告

作为 Kimi 团队署名作者参与旗舰模型研发。

- **Kimi K3: Open Frontier Intelligence** [link](#)
Kimi Team (including H. Ye). arXiv:2607.24653, 2026.
- **Kimi K2.5: Visual Agentic Intelligence** [link](#)
Kimi Team (including H. Ye). arXiv:2602.02276, 2026.

荣誉奖项

- 2025-2026：北京市三好学生（同年学院唯一）；国家奖学金（同年学院排名第一）；北京大学校长奖学金（同年学院同级唯一）。
- 2024：江苏省大学生年度人物（全省本科生第 2）；江苏省优秀本科毕业论文；苏州大学五四创新奖章（唯一本科生获得者）。
- 2022-2023：国家奖学金；江苏省三好学生；三好学生标兵。

领导力与课外活动

- 北京大学智能学院研究生会副主席；智能学院男子篮球队队长。
- 北京大学跳绳队队员；全国跳绳联赛银牌；北京大学运动会个人项目五枚金牌。

Haoran Ye

Beijing, China | Born: Oct 2001 | 📞 (+86) 159-0515-0535 | ✉️ hrye@stu.pku.edu.cn

🌐 [Homepage](#) | [Google Scholar](#) | [GitHub](#) | [LinkedIn](#) | [Xiaohongshu](#)



EDUCATION

- Peking University | SIST | Ph.D. in Intelligence Science (direct-track)** Sep 2024 – Jun 2029 (expected)
- Class rank 1/33 (two consecutive years); Advisor: Prof. Guojie Song
- Soochow University | Computer Science | B.Eng. in Artificial Intelligence** Sep 2020 – Jun 2024
- Grade rank 1/250, Average Grade 95/100

EXPERIENCE

- Moonshot AI | Kimi RL Team, Research Intern** Mar 2026 – present
- Contributed to the development of the Kimi K2.5 and Kimi K3 model series; improving model capabilities in scientific coding, general tool use, and multi-turn and personalized interaction.

GRANTS

- NSFC Youth Student Basic Research Project (Ph.D. student grant), Principal Investigator** Dec 2025 – present
- Key Technologies for Building General-Purpose Psychometric LLMs*: building a generalist psychometric LLM for two application domains: (1) psychometrics, behavior prediction, and population modeling of natural persons; (2) fine-grained reward modeling for agents. (The only recipient in SIST.)
- CAST Young Talent Cultivation Project for Doctoral Students (one of two grantees in SIST)** Dec 2025 – present
- National College Student Innovation and Entrepreneurship Program, Project Lead** Jun 2022 – Jun 2024
- Dynamic Delivery Route Optimization via Meta-Reinforcement Learning*; National Key Support Project (the only one in the school); completed with the highest rating (Excellent).

PUBLICATIONS

- My research focuses on general-purpose, self-evolving agents, including their alignment with human values in non-verifiable domains.
- 1,100+ citations on **first-author** papers on Google Scholar (as of Sep 2026); 13 papers at CCF-A conferences (6 as first author).

Self-Evolution: Continuous Evolution and Internalization of Agent Capabilities

Evolving agents across experience, skills, harnesses, and model parameters.

- Harness-Zero: Harness Distillation via Agent-as-Harness** [link](#)
H. Ye, Y. Lu, H. Dong, Z. Su, G. Song. arXiv:2609.24974, 2026.
Distills optimized agent harnesses into model weights via agent-as-harness; *AlphaXiv Trending Top 10; proactively covered by numerous academic media outlets; Prof. Jürgen Schmidhuber (father of LSTM) proactively reached out for discussion.*
- Meta Context Engineering via Agentic Skill Evolution** [link](#)
H. Ye, X. He, V. Arak, H. Dong, G. Song. ICML 2026.
Represents context as files and code, and co-evolves context-engineering skills with context, overcoming static agent harnesses; *AlphaXiv Trending Top 3.*
- ReEvo: Large Language Models as Hyper-Heuristics with Reflective Evolution** [link](#)
H. Ye, J. Wang, Z. Cao, F. Berto, C. Hua, H. Kim, J. Park, G. Song. NeurIPS 2024.
Proposes reflective evolution, combining LLM reflection with evolutionary computation for open-ended constructive search and LLM test-time scaling; *cited by multiple Google DeepMind papers including AlphaEvolve.*
- NeuReasoner: Towards Explainable, Controllable, and Unified Reasoning via Mixture-of-Neurons** [link](#)
H. Dong, K. Jiang, H. Ye, W. Zhu, Z. Kang, G. Song. ACL 2026 Main, Oral.
- AutoEP: LLMs-Driven Automation of Hyperparameter Evolution for Metaheuristic Algorithms** [link](#)
Z. Xu, Y. Zhang, W. Bao, H. Wang, M. Chen, H. Ye, W. Jiang, H. Yan, J. Wang. ICLR 2026, Oral.
- VRPAgent: LLM-Driven Discovery of Heuristic Operators for Vehicle Routing Problems** [link](#)
A. Hottung, F. Berto, C. Hua, N. G. Zepeda, D. Wetzl, M. Römer, H. Ye, D. Zago, et al. arXiv:2510.07073, 2025.

Benchmarks, Evaluation & Alignment

Measuring capabilities and aligning values of LLMs and agents.

- **Large Language Model Psychometrics: A Systematic Review of Evaluation, Validation, and Enhancement** [link](#)
H. Ye, J. Jin, Y. Xie, X. Zhang, G. Song. arXiv:2505.08245, 2025.
The first systematic review of LLM psychometrics.
- **Generative Psycho-Lexical Approach for Constructing Value Systems in Large Language Models** [link](#)
H. Ye, T. Zhang, Y. Xie, L. Zhang, Y. Ren, X. Zhang, G. Song. ACL 2025 Main.
Constructs LLM-native, interpretable value systems, and trains models to achieve value alignment.
- **Measuring Human and AI Values Based on Generative Psychometrics with Large Language Models** [link](#)
H. Ye, Y. Xie, Y. Ren, H. Fang, X. Zhang, G. Song. AAAI 2025.
Trains value-measurement LLMs, establishing a unified measurement framework for human and AI values.
- **ValueBench: Towards Comprehensively Evaluating Value Orientations and Understanding of LLMs** [link](#)
Y. Ren, H. Ye, H. Fang, X. Zhang, G. Song. ACL 2024 Main.
The first comprehensive benchmark for evaluating value orientations and understanding of LLMs.
- **Agent-ValueBench: A Comprehensive Benchmark for Evaluating Agent Values** [link](#)
H. Dong, Q. Feng, K. Jiang, H. Ye, X. Zhang, G. Song. arXiv:2605.10365, 2026.
- **Agents' Last Exam** [link](#)
Y. Sun, X. Han, W. Zhang, et al. (including H. Ye). NeurIPS 2026.

Foundations in Evolution & Optimization

The optimization machinery underlying self-evolution, and its applications in combinatorial optimization and beyond.

- **DeepACO: Neural-Enhanced Ant Systems for Combinatorial Optimization** [link](#)
H. Ye, J. Wang, Z. Cao, H. Liang, Y. Li. NeurIPS 2023.
Enhances ant colony intelligence with graph neural networks; *cited by the group of Turing Award laureate Yoshua Bengio*.
- **GLOP: Learning Global Partition and Local Construction for Solving Large-Scale Routing Problems in Real-Time** [link](#)
H. Ye, J. Wang, H. Liang, Z. Cao, Y. Li, F. Li. AAAI 2024.
A learnable global-partition + local-construction strategy for real-time large-scale routing.
- **RL4CO: An Extensive Reinforcement Learning for Combinatorial Optimization Benchmark** [link](#)
F. Berto, C. Hua, J. Park, L. Luttman, Y. Ma, F. Bu, J. Wang, H. Ye, M. Kim, et al. KDD 2025, Oral.
- **TransPlace: Transferable Circuit Global Placement via Graph Neural Network** [link](#)
Y. Hou, H. Ye, Y. Zhang, S. Xu, G. Song. KDD 2025.
- **RoutePlacer: An End-to-End Routability-Aware Placer with Graph Neural Network** [link](#)
Y. Hou, H. Ye, Y. Zhang, S. Xu, G. Song. KDD 2024.

Industry Technical Reports

Contributing author of flagship model technical reports as a member of the Kimi Team.

- **Kimi K3: Open Frontier Intelligence** [link](#)
Kimi Team (including H. Ye). arXiv:2607.24653, 2026.
- **Kimi K2.5: Visual Agentic Intelligence** [link](#)
Kimi Team (including H. Ye). arXiv:2602.02276, 2026.

SELECTED HONORS AND AWARDS

- 2025–2026: Beijing Municipal Merit Student (the only recipient in SIST in the same year); National Scholarship (ranked 1st in SIST in the same year); PKU Presidential Scholarship (the only recipient in the 2024 SIST cohort).
- 2024: Student of the Year, Jiangsu Province (ranked 2nd among all undergraduate students); Excellent Undergraduate Thesis of Jiangsu Province; May Fourth Medal of Innovation, Soochow University (the only undergraduate recipient).
- 2022–2023: National Scholarship; Provincial Merit Student; Pacemaker to Merit Student.

LEADERSHIP AND ACTIVITIES

- Vice President of the Graduate Student Union, SIST, PKU; Captain of the SIST Men's Basketball Team.
- Member of the PKU Rope Skipping Team; silver medal at the National Rope Skipping Competition of China; five individual gold medals at the PKU Sports Festival.