

樊光瑞

个人简历

出生日期：1992 年 7 月 6 日

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研究方向

以人为中心的人工智能 (Human-Centered AI)，研究方向聚焦：

- 教育人工智能：AI 辅助编程教育中的认知脚手架与认知卸载。
- AI 介导沟通与信任：AI 辅助内容创作/沟通中的真实性、信任与隐私。
- 智能交通：基于图神经网络的时空交通流预测与公平性。
- AI for Social Good：心理健康支持与算法公平。

关键词：Human-Centered AI；HCI；LLM；GNN；社会计算；公平性。

研究亮点

- CCF A 论文 (已录用/待发表)：CHI 2026 (×3)、AAAI 2026、WWW 2026、FSE 2026、IJCAI 2025。
- ESI 高被引论文 (2025)：International Journal of STEM Education。
- 学术服务：WWW 2026 (Web4Good) 程序委员会；CHI 2026 与多本 SCI/SSCI Q1 期刊审稿。

教育背景

计算机科学博士

2022 年 9 月 – 2026 年 3 月 (预计)

马来亚大学 (Universiti Malaya, QS 58)，马来西亚吉隆坡

研究方向：以人为中心的人工智能、人机交互、智能交通

软件工程硕士

2014 年 9 月 – 2018 年 2 月

上海交通大学 (软件学院)，中国上海

(保送，免试推荐入学)

数字媒体技术学士

2010 年 9 月 – 2014 年 6 月

华中科技大学 (软件学院)，中国武汉

工作经历

讲师

2018 年 6 月 – 至今

计算机科学与技术学院

太原科技大学，山西太原

学术论文¹

会议论文

CCF A 类

- [C1] Fan, G.*, Liu D., et al. (2026). Is It Still You? Attributing Authorship and Authenticity in AI-Assisted Romantic Communication. *CHI 2026*. CCF A
- [C2] Fan, G.*, Liu D., et al. (2026). When Help Hurts: Verification Load and Fatigue with AI Coding Assistants. *CHI 2026*. CCF A
- [C3] Fan, G.*, Liu D., et al. (2026). Co-Adaptive Eco-Nudging: A Privacy-Preserving Contextual Bandit with User-Taught Preferences. *CHI 2026*. CCF A
- [C4] Fan, G.*, Liu D., Pan L., et al. (2026). Multi-LLM Persona Generation for Virtual Focus Groups in Software Engineering. *FSE 2026*. CCF A

¹* 第一作者；† 通讯作者。

- [C5] **Fan, G.***, Liu D., Sabri A.Q.M., Pan L. (2026). Audit-of-Audits for the Web: Bayesian Meta-Evaluation that Yields Interval-Valued, Threshold-Aligned Fairness Claims. *WWW 2026*. **CCF A**
- [C6] **Fan, G.***, Liu D., Pan L. (2026). Mind the Gap: Predicting, Explaining and Reducing Time-to-First-Comment (Reply Gap) in Online Mental-Health Communities. *AAAI 2026*. **CCF A**
- [C7] **Fan, G.***, Liu D., Pan L., Huang Y. (2025). Creative Momentum Transfer: How Timing and Labeling of AI Suggestions Shape Iterative Human Ideation. *IJCAI 2025*. **CCF A**

CCF B 类

- [C8] **Fan, G.***, Pan L., Zhang M., Zhao M. (2026). LePER: Label-Free Edge Polarity Reweighting for Heterophily. *ICASSP 2026*. **CCF B**
- [C9] **Fan, G.***, Liu D. (2025). When Machines Speak with Feeling: Investigating Emotional Prosody, Authenticity, and Trust in AI vs. Human Voices. *CogSci 2025*. **CCF B**
- [C10] **Fan, G.***, Liu D. (2025). Co-Constructing Meaning with Large Language Models: A Longitudinal Analysis of Human-AI Dialogues in Emotional Support Contexts. *CogSci 2025*. **CCF B**

CCF C 类

- [C11] **Fan, G.***, Liu D., Pan L., Huang Y. (2025). Mapping Override Behavior: Investigating Why and How Artists Reject AI Suggestions in Collaborative Creation. *IJCNN 2025*. **CCF C**
- [C12] **Fan, G.*** (2025). DocPINN: A Neural PDE-Based Framework for Document Image Dewarping. *ICDAR 2025*. **CCF C**

期刊论文

中科院 1 区 Top 期刊

- [J1] **Fan, G.***, Liu D., Zhang R., Pan L. (2025). The impact of AI-assisted pair programming on student motivation, programming anxiety, collaborative learning, and programming performance. *International Journal of STEM Education*, 12(1), 16. **中科院 1 区 Top, ESI 高被引**
- [J2] **Fan, G.***, Liu D., et al. (2026). Tool, Tutor, or Crutch?: A Grounded Theory of Cognitive Scaffolding and Offloading in AI-Assisted Programming Education. *International Journal of STEM Education*. (已接收) **中科院 1 区 Top**
- [J3] **Fan, G.***, Sabri A.Q.M., Rahman S.S.A., Pan L. (2025). DynaKey-GNN: An efficient dynamic key-node multi-graph neural network for spatio-temporal traffic flow forecasting. *Engineering Applications of Artificial Intelligence*, 159, 111757. **中科院 1 区 Top**
- [J4] **Fan, G.***, Sabri A.Q.M., Rahman S.S.A., Pan L., Rahardja S. (2025). Emerging Trends in Graph Neural Networks for Traffic Flow Prediction: A Survey. *Archives of Computational Methods in Engineering*, 1–45. **中科院 1 区 Top**
- [J5] Liu D., **Fan, G.†** (2026). Governing Modesty: Platformed Urban Gaze and Rural Chinese Housewives on Douyin. *Journal of Rural Studies*. **中科院 1 区 Top**
- [J6] Liu D., **Fan, G.†** (2025). Digital duality: negotiating tradition, modernity, and identity among rural housewife Douyin creators in China. *Information, Communication & Society*, 1–18. **中科院 1 区 Top**

CCF B / 其他 SCI 期刊

- [J7] **Fan, G.***, Liu D., Huang Y. (2025). Skim or Swim? Investigating AI-Generated Summaries, Trust, and Comprehension in Chinese Mobile Reading. *International Journal of Human-Computer Interaction*, 1–22. **CCF B**
- [J8] Zhao R., Quan Y., **Fan, G.†** (2025). Optimizing Operating Room Scheduling Through Multi-Level Learning and Column Generation. *Health Care Management Science*. **中科院 3 区**
- [J9] **Fan, G.***, Liu A., Zhang C. (2025). ContrastLOS: A Graph-Based Deep Learning Model With Contrastive Pre-Training for Improved ICU Length-of-Stay Prediction. *IEEE Access*. **中科院 3 区**

荣誉与奖励

- ESI 高被引论文 (2025) – 发表于 *International Journal of STEM Education*
- 期刊最高被引文章 (近两年) – *International Journal of STEM Education*
- 期刊最受欢迎文章 (近 9 个月, 排名第 1) – *International Journal of STEM Education*
- 一等奖论文 & 最佳报告奖 (2025 年 7 月) – 第九届中国计算机实践教育学术会议 (CPEC2025)

科研项目

- **山西省基础研究计划面上项目（参与）**：基于介尺度的大规模复杂系统多智能体并行仿真模型研究。项目编号：202203021221145
- **山西省高等学校教学改革创新项目（团队成员，2025）**：深化本科教学评价机制改革——AI 赋能的课堂质量评价与实践探索。项目编号：J20250145

教学工作

主讲课程：JAVA Web 开发、Oracle 数据库管理技术、物联网 RFID 原理与技术、计算机图形学、计算机动画原理

学生指导：指导人工智能与软件工程方向本科毕业设计

学术服务

程序委员会成员

- **The Web Conference (WWW) 2026 – Web4Good 特别赛道 (CCF A)**

审稿人

- **CHI 2026 – ACM 人机交互顶会 (CCF A)**
- **Engineering Applications of Artificial Intelligence (EAAI, 中科院 1 区 Top)**
- **International Journal of STEM Education (中科院 1 区 Top)**
- **Information, Communication & Society (SSCI 1 区 Top)**

GUANGRUI FAN

Curriculum Vitae

Date of Birth: July 6, 1992

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RESEARCH INTERESTS

Human-Centered Artificial Intelligence (HCAI) with a focus on:

- **AI in Education:** cognitive scaffolding and offloading in AI-assisted programming education.
- **AI-Mediated Communication & Trust:** authenticity, trust, privacy, and attribution in AI-assisted communication/content creation.
- **Intelligent Transportation:** GNN-based spatiotemporal traffic prediction and fairness.
- **AI for Social Good:** mental health support and algorithmic fairness.

Keywords: Human-Centered AI; HCI; LLMs; Graph Neural Networks; Social Computing; Fairness.

RESEARCH HIGHLIGHTS

- **CCF A publications (to appear/accepted):** CHI 2026 (×3), AAAI 2026, WWW 2026, FSE 2026, IJCAI 2025.
- **ESI Highly Cited Paper (2025):** *International Journal of STEM Education*.
- **Service:** Program Committee member (WWW 2026, Web4Good); Reviewer for CHI 2026 and multiple SCI/SSCI Q1 journals.

EDUCATION

Ph.D. in Computer Science

September 2022 – March 2026 (Expected)

Universiti Malaya (QS 58), Kuala Lumpur, Malaysia

Research Focus: Human-Centered AI, Human-AI Interaction, Intelligent Transportation

M.S. in Software Engineering

September 2014 – February 2018

Shanghai Jiao Tong University, Shanghai, China (School of Software)

Direct Admission (Recommended without Entrance Exam)

B.S. in Digital Media Technology

September 2010 – June 2014

Huazhong University of Science and Technology, Wuhan, China (School of Software)

EMPLOYMENT HISTORY

Lecturer

June 2018 – Present

School of Computer Science and Technology

Taiyuan University of Science and Technology, Taiyuan, China

PUBLICATIONS¹

Peer-Reviewed Conference Papers

CCF A

- [C1] **Fan, G.***, Liu, D., et al. (2026). Is It Still You? Attributing Authorship and Authenticity in AI-Assisted Romantic Communication. In *CHI 2026*. **CCF A**
- [C2] **Fan, G.***, Liu, D., et al. (2026). When Help Hurts: Verification Load and Fatigue with AI Coding Assistants. In *CHI 2026*. **CCF A**
- [C3] **Fan, G.***, Liu, D., et al. (2026). Co-Adaptive Eco-Nudging: A Privacy-Preserving Contextual Bandit with User-Taught Preferences. In *CHI 2026*. **CCF A**
- [C4] **Fan, G.***, Liu, D., Pan, L., et al. (2026). Multi-LLM Persona Generation for Virtual Focus Groups in Software Engineering. In *FSE 2026*. **CCF A**
- [C5] **Fan, G.***, Liu, D., Sabri, A.Q.M., & Pan, L. (2026). Audit-of-Audits for the Web: Bayesian Meta-Evaluation that Yields Interval-Valued, Threshold-Aligned Fairness Claims. In *WWW 2026*. **CCF A**
- [C6] **Fan, G.***, Liu, D., & Pan, L. (2026). Mind the Gap: Predicting, Explaining and Reducing Time-to-First-Comment (Reply Gap) in Online Mental-Health Communities. In *AAAI 2026*. **CCF A**
- [C7] **Fan, G.***, Liu, D., Pan, L., & Huang, Y. (2025). Creative Momentum Transfer: How Timing and Labeling of AI Suggestions Shape Iterative Human Ideation. In *IJCAI 2025*. **CCF A**

¹* First Author; [†] Corresponding Author.

CCF B

- [C8] **Fan, G.***, Pan, L., Zhang, M., & Zhao, M. (2026). LePER: Label-Free Edge Polarity Reweighting for Heterophily. In *ICASSP 2026*. **CCF B**
- [C9] **Fan, G.***, & Liu, D. (2025). When Machines Speak with Feeling: Investigating Emotional Prosody, Authenticity, and Trust in AI vs. Human Voices. In *CogSci 2025*. **CCF B**
- [C10] **Fan, G.***, & Liu, D. (2025). Co-Constructing Meaning with Large Language Models: A Longitudinal Analysis of Human-AI Dialogues in Emotional Support Contexts. In *CogSci 2025*. **CCF B**

CCF C

- [C11] **Fan, G.***, Liu, D., Pan, L., & Huang, Y. (2025). Mapping Override Behavior: Investigating Why and How Artists Reject AI Suggestions in Collaborative Creation. In *IJCNN 2025*. **CCF C**
- [C12] **Fan, G.*** (2025). DocPINN: A Neural PDE-Based Framework for Document Image Dewarping. In *ICDAR 2025*. **CCF C**

Peer-Reviewed Journal Articles

SCI Q1 Top Journals

- [J1] **Fan, G.***, Liu, D., Zhang R., & Pan, L. (2025). The impact of AI-assisted pair programming on student motivation, programming anxiety, collaborative learning, and programming performance. *International Journal of STEM Education*, 12(1), 16. **SCI Q1 Top, ESI Highly Cited**
- [J2] **Fan, G.***, Liu, D., et al. (2026). Tool, Tutor, or Crutch?: A Grounded Theory of Cognitive Scaffolding and Offloading in AI-Assisted Programming Education. *International Journal of STEM Education*. (In Press) **SCI Q1 Top**
- [J3] **Fan, G.***, Sabri, A.Q.M., Rahman, S.S.A., & Pan, L. (2025). DynaKey-GNN: An efficient dynamic key-node multi-graph neural network for spatio-temporal traffic flow forecasting. *Engineering Applications of Artificial Intelligence*, 159, 111757. **SCI Q1 Top**
- [J4] **Fan, G.***, Sabri, A.Q.M., Rahman, S.S.A., Pan, L., & Rahardja, S. (2025). Emerging Trends in Graph Neural Networks for Traffic Flow Prediction: A Survey. *Archives of Computational Methods in Engineering*, 1–45. **SCI Q1 Top**
- [J5] Liu, D., & **Fan, G.†** (2026). Governing Modesty: Platformed Urban Gaze and Rural Chinese Housewives on Douyin. *Journal of Rural Studies*. **SCI Q1 Top**
- [J6] Liu, D., & **Fan, G.†** (2025). Digital duality: negotiating tradition, modernity, and identity among rural housewife Douyin creators in China. *Information, Communication & Society*, 1–18. **SCI Q1 Top**

CCF B / Other SCI Journals

- [J7] **Fan, G.***, Liu, D., & Huang, Y. (2025). Skim or Swim? Investigating AI-Generated Summaries, Trust, and Comprehension in Chinese Mobile Reading. *International Journal of Human-Computer Interaction*, 1–22. **CCF B**
- [J8] Zhao, R., Quan, Y., & **Fan, G.†** (2025). Optimizing Operating Room Scheduling Through Multi-Level Learning and Column Generation. *Health Care Management Science*. **SCI Q3**
- [J9] **Fan, G.***, Liu, A., & Zhang, C. (2025). ContrastLOS: A Graph-Based Deep Learning Model With Contrastive Pre-Training for Improved ICU Length-of-Stay Prediction. *IEEE Access*. **SCI Q3**

HONORS & AWARDS

- **ESI Highly Cited Paper** (2025) – *International Journal of STEM Education*
- **Most Cited Article (Past Two Years)** – *International Journal of STEM Education*
- **Most Popular Article (Rank 1, Past 9 Months)** – *International Journal of STEM Education*
- **First-Class Paper Award & Best Presentation Award** (July 2025) – The 9th China Computer Practice Education Conference (CPEC 2025)

GRANTS & RESEARCH PROJECTS

- **Shanxi Basic Research Program (Participant)**: Multi-Agent Parallel Simulation Model for Large-Scale Complex Systems Based on Mesoscale. **Project No.:** 202203021221145
- **Shanxi Higher Education Teaching Reform Project (Team Member, 2025)**: Deepening Undergraduate Teaching Evaluation Reform: AI-Empowered Classroom Quality Assessment. **Project No.:** J20250145

TEACHING

Courses Taught: Java Web Development, Oracle Database Management, IoT RFID Principles and Technology, Computer Graphics, Computer Animation Principles

Student Supervision: Undergraduate thesis projects in AI and software engineering

PROFESSIONAL SERVICE

Program Committee Member

- **The Web Conference (WWW) 2026** – Special Track: Web4Good (CCF A)

Journal & Conference Reviewer

- **CHI 2026** – ACM Conference on Human Factors in Computing Systems (CCF A)
- **Engineering Applications of Artificial Intelligence** (EAAI, SCI Q1 Top)
- **International Journal of STEM Education** (SCI Q1 Top)
- **Information, Communication & Society** (SSCI Q1 Top)