杨光

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教育背景

新加坡管理大学   **2024 年 08 月 – 2025 年 08 月**

访问博士生 *(由新加坡管理大学、南京航空航天大学资助)*   新加坡

导师: David Lo 教授, IEEE Fellow, ASE Fellow, ACM Distinguished Member

南京航空航天大学   **2022 年 09 月 – 2026 年 09 月**

博士生，软件工程专业   中国，江苏省南京市

导师: 周宇 教授

南通大学   **2015 年 09 月 – 2022 年 09 月**

计算机技术硕士，软件工程学士   中国，江苏省南通市

导师: 陈翔 副教授

研究方向

- 代码大语言模型
- 安全性
- 经济性
- 其他
- 鲁棒性
- 可靠性
- 评估指标

部分出版物

- 论文数量: 30+
- 引用次数: 346
- H 指数: 10
- I10 指数: 12

五年内代表作（一作/通讯）8 篇

1. **Guang Yang**, Yu Zhou, Xiang Chen, Xiangyu Zhang, Terry Yue Zhuo, Taolue Chen, "Chain-of-Thought in Neural Code Generation: From and For Lightweight Language Models", **IEEE Transactions on Software Engineering, CCF A 类, SCI Q1 期刊**, 2024.

2. **Guang Yang**, Yu Zhou, Wenhua Yang, Tao Yue, Xiang Chen, Taolue Chen, "How Important are Good Method Names in Neural Code Generation? A Model Robustness Perspective", **ACM Transactions on Software Engineering and Methodology, CCF A 类, SCI Q1 期刊**, 2024.

3. **Guang Yang**, Ke Liu, Xiang Chen, Yanlin Zhou, Chi Yu, Hao Lin, "CCGIR: Information Retrieval-based Code Comment Generation Method for Smart Contracts", **Knowledge-Based Systems, SCI Q1 期刊**, 2022.

4. **Guang Yang**, Yu Zhou, Xiang Chen, Xiangyu Zhang, Yiran Xu, Tingting Han, Taolue Chen, "A Syntax-Guided Multi-Task Learning Approach for Turducken-Style Code Generation", **Empirical Software Engineering, CCF B 类, SCI Q2 期刊**, 2023.

5. **Guang Yang**, Yu Zhou, Xiang Chen, Xiangyu Zhang, Tingting Han, Taolue Chen, "Ex-

ploitGen: Template-Augmented Exploit Code Generation Based on CodeBERT", **Journal of Systems and Software, CCF B, SCI Q2 类期刊**, 2023.

6. **Guang Yang**, Xiang Chen, Yanlin Zhou and Chi Yu, "DualSC: Automatic Generation and Summarization of ShellCode via Transformer and Dual Learning", **SANER, CCF B 类会议**, 2022.

7. **Guang Yang**, Yanlin Zhou, Xiang Chen, Chi Yu, "Fine-grained Pseudo-code Generation Method via Code Feature Extraction and Transformer", **APSEC, CCF C 类会议**, 2021.

8. **Guang Yang**, Yanlin Zhou, Chi Yu, Xiang Chen, "DeepSCC: Source Code Classification Based on Fine-Tuned RoBERTa", **SEKE, CCF C 类会议**, 2021.

学术兼职

软件质量分析   **南京航空航天大学**
助教   *2024 年 03 月 – 2024 年 06 月*

期刊/会议审稿人
- ICLR 2025
- EMNLP 2023
- Automated Software Engineering
- Information Processing & Management
- Expert Systems With Applications
- Soft Computing
- Engineering Applications of Artificial Intelligence

部分荣誉和奖项

- 国家奖学金、三好研究生标兵、三好研究生, 南京航空航天大学.
- 国家奖学金、一等奖学金、优秀研究生、优秀毕业研究生, 南通大学.
- 2021, 挑战杯"黑科技"专项竞赛, 全国三等奖, 江苏省一等奖
- 2020, 中国机器人及人工智能大赛, 一等奖
- 2020, 华为杯中国研究生数学建模竞赛, 二等奖
- 2020, 领航杯江苏省大学生信息技术应用能力比赛, 一等奖

科研项目

- 国家自然科学基金 (NSFC, No. 62372232) 参与
- 江苏省研究生研究与实践创新计划 (No. KYCX23_0396) 主持
- 南京航空航天大学海外博士生短期访问项目 (No. 240501DF16) 主持

所有论文

1. **Guang Yang**, Yu Zhou, Wei Cheng, Xiangyu Zhang, Xiang Chen, Terry Zhuo, Ke Liu, Xin Zhou, David Lo, Taolue Chen, "Less is More: DocString Compression in Code Generation", **Arxiv**, 2024.

2. **Guang Yang**, Yu Zhou, Xiang Chen, Xiangyu Zhang, Terry Yue Zhuo, Taolue Chen, "Chain-of-Thought in Neural Code Generation: From and For Lightweight Language Models", **IEEE Transactions on Software Engineering, CCF A 类, SCI Q1 期刊**, 2024.

3. Xiangyu Zhang, Yu Zhou, **Guang Yang** Tingting Han, Taolue Chen, "Context-aware code generation with synchronous bidirectional decoder", **Journal of Systems and Software, CCF B, SCI Q2 类期刊**, 2024.

4. **Guang Yang**, Yu Zhou, Xiang Chen, Xiangyu Zhang, Terry Yue Zhuo, David Lo, Taolue Chen, "DeCE: Deceptive Cross-Entropy Loss Designed for Defending Backdoor Attacks", **Arxiv**, 2024.

5. **杨光**, 周宇, 陈翔, 张翔宇, "CodeScore-R：用于评估代码合成功能准确性的自动化鲁棒指标", **计算机研究与发展, 中文 CCF A 类, EI 期刊**, 2024.

6. Yiheng Shen, Xiaolin Ju, Xiang Chen, **Guang Yang**, "Bash comment generation via data augmentation and semantic-aware CodeBERT", **Automated Software Engineering, CCF B 类, SCI Q2 类期刊**, 2024.

7. Shaoyu Yang, Xiang Chen, Ke Liu, **Guang Yang**, Chi Yu, "Automatic bi-modal question title generation for Stack Overflow with prompt learning", **Empirical Software Engineering, CCF B 类, SCI Q2 类期刊**, 2024.

8. Junjie Zhao, Xiang Chen, **Guang Yang**, Yiheng Shen, "Automatic smart contract comment generation via large language models and in-context learning", **Information and Software Technology, CCF B 类, SCI Q2 类期刊**, 2024.

9. **Guang Yang**, Yu Zhou, Wenhua Yang, Tao Yue, Xiang Chen, Taolue Chen, "How Important are Good Method Names in Neural Code Generation? A Model Robustness Perspective", **ACM Transactions on Software Engineering and Methodology, CCF A 类, SCI Q1 期刊**, 2024.

10. Xiangyu Zhang, Yu Zhou, **Guang Yang**, Taolue Chen, "Syntax-aware retrieval augmented code generation", **EMNLP findings, CCF B 类**, 2023.

11. **Guang Yang**, Yu Zhou, Xiangyu Zhang, Xiang Chen, Tingting Han, Taolue Chen, "Assessing and Improving Syntactic Adversarial Robustness of Pre-trained Models for Code Translation", **Arxiv**, 2023.

12. **Guang Yang**, Yu Zhou, Xiang Chen, Xiangyu Zhang, Yiran Xu, Tingting Han, Taolue Chen, "A Syntax-Guided Multi-Task Learning Approach for Turducken-Style Code Generation", **Empirical Software Engineering, CCF B 类, SCI Q2 期刊**, 2023.

13. Hao Shen, Xiaolin Ju, Xiang Chen, **Guang Yang**, "EDP-BGCNN: Effective Defect Prediction via BERT-based Graph Convolutional Neural Network", **COMPSAC, CCF C 类**, 2023.

14. 陈翔, 于池, **杨光**, 濮雪莲, 崔展齐, "基于双重信息检索的 Bash 代码注释生成方法", **软件学报, 中文 CCF A 类, EI 期刊**, 2023.

15. **Guang Yang**, Yu Zhou, Xiang Chen, Xiangyu Zhang, Tingting Han, Taolue Chen, "ExploitGen: Template-Augmented Exploit Code Generation Based on CodeBERT", **Journal of Systems and Software, CCF B, SCI Q2 类期刊**, 2023.

16. Yiheng Shen, Xiaolin Ju, Xiang Chen, **Guang Yang**, "An Empirical Study of Adversarial Training in Code Comment Generation", **SEKE, CCF C 类会议**, 2023.

17. Zhenhua Zhang, Shizhan Chen, Guodong Fan, **Guang Yang**, Zhiyong Feng, "CCGRA: Smart Contract Code Comment Generation with Retrieval-enhanced Approach", **SEKE, CCF C 类会议**, 2023.

18. 吴皓, 周宇, 张硕桦, **杨光**, "Robust-InTemp: 基于对抗扰动和局部信息增强的进阀温度预测", **计算机系统应用, 中文 CCF C 类, 北大核心期刊**, 2023.

19. Chi Yu*, **Guang Yang***, Xiang Chen, Ke Liu, Yanlin Zhou, "BashExplainer: Retrieval-Augmented Bash Code Comment Generation based on Fine-tuned CodeBERT", **ICSME, CCF B 类会议**, 2022.

20. Xinyi Tian, Jingkun Wu, **Guang Yang**, "BUG-T5: A Transformer-based Automatic Title Generation Method for Bug Reports", **ICBASE, EI 会议**, 2022.

21. Ke Liu*, **Guang Yang***, Xiang Chen, Yanlin Zhou, "EL-CodeBert: Better Exploiting CodeBert to Support Source Code-Related Classification Tasks", **Internetware, CCF C 类会议**, 2022.

22. Ke Liu*, **Guang Yang***, Xiang Chen, Chi Yu, "Sotitle: A transformer-based post title generation approach for stack overflow", **SANER, CCF B 类会议**, 2022.

23. **Guang Yang**, Xiang Chen, Yanlin Zhou and Chi Yu, "DualSC: Automatic Generation and Summarization of ShellCode via Transformer and Dual Learning", **SANER, CCF B 类会议**, 2022.

24. **Guang Yang**, Ke Liu, Xiang Chen, Yanlin Zhou, Chi Yu, Hao Lin, "CCGIR: Information Retrieval-based Code Comment Generation Method for Smart Contracts", **Knowledge-Based Systems, SCI Q1 期刊**, 2022.

25. **Guang Yang**, Yanlin Zhou, Xiang Chen, Chi Yu, "Fine-grained Pseudo-code Generation Method via Code Feature Extraction and Transformer", **APSEC, CCF C 类会议**, 2021.

26. **Guang Yang**, Yanlin Zhou, Chi Yu, Xiang Chen, "DeepSCC: Source Code Classification Based on Fine-Tuned RoBERTa", **SEKE, CCF C 类会议**, 2021.

27. Yanxin Jia, Xiang Chen, Shuyuan Xu, **Guang Yang**, Jinxin Cao, "EKD-BSP: Bug Report Severity Prediction by Extracting Keywords from Description", **DSA, EI 会议**, 2021.

28. **Guang Yang**, Xiang Chen, Jinxin Cao, Shuyuan Xu, Zhanqi Cui, Chi Yu, Ke Liu, "Comformer: Code comment generation via transformer and fusion method-based hybrid code representation", **DSA, EI 会议**, 2021.

29. **杨光**, 贾焱鑫, 陈翔, 许舒源, "基于深度学习的 Stack Overflow 问题帖分类方法", **吉林大学学报 (理学版), 北大核心期刊**, 2021.

30. 贾焱鑫, 陈翔, 葛骅, **杨光**, 林浩, "ORESP: 基于有序回归的软件缺陷严重程度预测方法", **计算机应用研究, 中文 CCF C 类, 北大核心期刊**, 2021.

31. 陈翔, **杨光**, 崔展齐, 孟国柱, 王赞, "代码注释自动生成方法综述", **软件学报, 中文 CCF A 类, EI 期刊**, 2021.

* 共同一作