孙武周

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个人总结

本人在校成绩优秀、乐观向上，工作负责、自我驱动力强、热爱尝试新事物。我的研究方向为**强化学习及其应用**。

教育背景

香港理工大学，人工智能与金融科技，学期交换生   2023.09 - 2023.12

GPA: 3.57/4.3 (90/100.0)，作为全校两名秋季交换生之一参与香港理工大学学期交换，并获得**双一流资助奖学金**。

西南交通大学，人工智能, 在读本科生   2021.09 - 2026.07

排名 2/23(前 10%), GPA: 3.73/4.0 (89.34/100.00)，**西南交通大学综合奖学金 (一等、二等)，三好学生，优秀学生干部**。

实习经历

北京智信卫通科技有限公司, 算法实习生/AI 部门经理   2024.01 - 至今

- **公司仿真平台智能化** 基于公司仿真平台，探索强化学习在其上进行智能化决策以及公司业务与大模型结合的可行性。
- 领导开发分布式强化学习算法，合作设计和改进仿真平台，本地部署大型模型工具。

香港科技大学, 远程实习生   2024.01 - 至今

- **基于强化学习技术的大模型推理能力提升** 本研究尝试利用以往强化学习增强探索能力的技巧改善当前大模型在数学等问题多步推理上的能力。
- 论文阅读与复现，前沿技术探索与实验实施。

香港理工大学 | AIMS 实验室, 访问学生   2023.07 - 2023.12

- **基于强化学习的羽毛球比赛视频分析** 本研究利用视觉技术（包括姿态识别和图像分割）对羽毛球职业比赛视频进行分析，构建了相应的数据集；在此基础上，通过强化学习算法（Q-learning）训练 Q 值表，旨在对职业运动员的比赛表现进行评估，并为其战术决策提供支持。
- 独立负责数据集构建，击球帧算法复现，首个广播视角下的羽毛球比赛视频开源自动标注工具搭建，**项目地址：https://github.com/sunwuzhou03/SoloShuttlePose**。
- ICRA(CCF-B) 三作在投。

技术能力

- **编程语言**: Python，SQL，C/C++，Shell。
- **操作系统, 数据库与工程构建**: Linux/MySQL/Git。
- **语言**: 四级：578，六级：496。
- **其他**: Latex，Markdown。

竞赛获奖

- 2023 年腾讯开悟人工智能全国公开赛**冠军 (奖金 20w)**(https://aiarena.tencent.com/aiarena/zh/), 2023 年 12 月。
- 第 14 届蓝桥杯程序设计竞赛 (Python A 组) **省三等奖** (https://dasai.lanqiao.cn/)，2023 年 4 月。
- 第 14 届西南交通大学 ACM 程序设计竞赛**银奖**, 2023 年 5 月。
- 2021 年西南交通大学新秀杯程序设计竞赛**三等奖**, 2021 年 12 月。

社区参与/实践其他

- 乐于参与开源社区讨论与贡献，Github：https://github.com/sunwuzhou03。
- 编写技术博客，个人博客：https://sunwuzhou03.github.io/blogs。
- 百度松果人才班培养菁英班项目中获得"优秀班长"。

WUZHOU SUN

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PERSONAL SUMMARY

I have excellent academic performance at school, am optimistic and upward-looking, responsible at work, have strong self-motivation, love to try new things, and my research areas are **reinforcement learning and its appication**.

EDUCATION

The Hong Kong Polytechnic University, Artificial Intelligence and Financial Technology, *Semester Exchange Student*   2023.09 - 2023.12

GPA: 3.57/4.3 (90/100.0), As one of the two autumn exchange students of the university, participated in the semester exchange at The Hong Kong Polytechnic University and received the Double First-Class University Funding Scholarship.

Southwest Jiaotong University, Artificial Intelligence, *Undergraduate*   2021.09 - 2026.07

Ranked 2/23 (Top 10%), GPA: 3.73/4.0 (89.34/100.00), Southwest Jiaotong University Comprehensive Scholarship (First Class, Second Class), Merit Student, Outstanding Student Cadre.

INTERNSHIP EXPERIENCE

Beijing Zhixin Weitong Technology Co., Ltd, Algorithm Intern / AI Department Manager   2024.01 - Now

- **Intelligentization of the Company's Simulation Platform** Based on the company's simulation platform, exploring the feasibility of intelligent decision-making through reinforcement learning and the integration of company business with large models.
- Led the development of distributed reinforcement learning algorithms, collaborated on designing and enhancing simulation platforms, and set up large-model tools locally.

The Hong Kong University of Science and Technology, Remote Intern   2024.01 - Now

- **Enhancing Large Language Models Reasoning with Reinforcement learning** Improving multi-step reasoning in large models using reinforcement learning tricks.
- Paper reading and reproduction, frontier technology exploration and experimental implementation.

The Hong Kong Polytechnic University | AIMS Lab, Visiting Student   2023.07 - 2023.12

- **Evaluating Player Performance and Tactical Decision-Making in Racket Sports Using Deep Reinforcement Learning** This study uses visual techniques to analyze professional badminton matches and builds a dataset. It then trains a Q-value table with Q-learning to assess player performance and inform tactical decisions.
- Solely developed the first open-source badminton video annotation tool, and constructed train dataset, **project url: https://github.com/sunwuzhou03/SoloShuttlePose**.
- Third-author on an ICRA paper (CCF-B).

TECHNICAL SKILLS

- **Programming Languages**: Python, SQL, C/C++, Shell.
- **Operating Systems, Databases, and Engineering Tools**: Linux/MySQL/Git.
- **Languages**: English: CET-4: 578, CET-6: 496; Chinese(native speaker).
- **Other**: LaTeX, Markdown.

COMPETITION AWARDS

- **Champion (Prize: 200,000 RMB)** of Tencent Enlightenment Artificial Intelligence National Open Competition (https://aiarena.tencent.com/aiarena/zh/), December 2023.
- **Third Prize** of the 14th Blue Bridge Cup Programming Contest (Python Group A) (https://dasai.lanqiao.cn/), April 2023.
- **Silver Award** of the 14th Southwest Jiaotong University ACM Programming Contest, May 2023.
- **Third Prize** of the 2021 Southwest Jiaotong University Rookie Cup Programming Contest, December 2021.

Community Involvement/Other Experience

- Actively participate in open-source community discussions and contribute, Github: https://github.com/sunwuzhou03.
- Writing technical blogs, personal blog: https://sunwuzhou03.github.io/blogs.
- Awarded "Outstanding Class Leader" in Baidu Pinecone Talent Class Elite Program.