Phillip Wang

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EDUCATION

Shanghai Jiao Tong University   **Sep. 2020 - June 2024(Expected)**
Bachelor of Engineering
Major: Artificial Intelligence (Honor Class) Overall GPA: 92.32/100(4.0/4.3, top 5%)
Core Coursework: Nature Language Processing(100/100), Computer Vision(93/100), Deep Learning and Its Applications(96/100), Reinforcement Learning(99/100), Design and Analysis of Algorithms(97/100), Computer Architecture(98/100)

INTERNSHIP EXPERIENCE

Shanghai Artificial Intelligence Laboratory *Research Intern in OpenMMLab*   **June 2023 - Dec. 2023**
- Supported more than 40 long context datasets based on an open-sourced Large Language Model(LLM) evaluation platform named OpenCompass, launched long context evaluation guidance and became one of the main contributors to OpenCompass
- Created a novel length-adaptable dataset named Ada-LEval for long context evaluation, which contains length-adaptable test cases, unbiased evaluation method and challenging tasks, evaluated both on LLMs and context window extrapolation methods

NAURA Technology Group Co., Ltd. *Software Development Engineer in PVD Division*   **Aug. 2022 - Jan. 2023**
- Developed an application to check the system environment status and set system environment variables on Windows 10 automatically to ensure production stability and efficiency of semiconductor devices
- Constructed functional module by C# and Windows Batch, designed user interface and supported 10 important checking tasks

RESEARCH EXPERIENCE

Global Routing in Electronic Design Automation   **May 2022 - Sep. 2023**
- Proposed a two-phase learning scheme called HubRouter, including hub generation and pin-hub connection using deep generative models and an actor-critic model for global routing in chip design, which also showed strength in Rectilinear Steiner Minimum Tree(RSMT) construction and interactive path replanning
- Implemented four traditional heuristic routers and one generative router in global routing, compared HubRouter with these routers and HubRouter generated routes **12x** faster than the **SOTA** PRNet while maintaining route generation quality

Formal Verification of a Plane Geometry Problem Using Red-black Tree   **Jan. 2021 - Mar. 2022**
- Constructed a novel red-black tree which could compare two different keys, points and lines respectively on the Cartesian coordinate system. Proved its validity through formal verification by means of a programming language named Coq

TEACHING EXPERIENCE

The Introduction to Computer System *Teaching Assistant*   **Apr. 2023 - July 2023**
- Organized and gave revision classes to students, kept track of class status and students' feedback
- Designed a coding project on maintaining two linked lists by assembly language, prepared questions for the final exam

PUBLICATIONS

[1] Ada-LEval: Evaluating long-context LLMs with length-adaptable benchmarks   NAACL 2024
C. Wang, H. Duan, S. Zhang, D. Lin, K. Chen
[2] BotChat: Evaluating LLMs' Capabilities of Having Multi-Turn Dialogues   Findings of NAACL 2024, **ArXiv**
H. Duan*, J. Wei*, **C.Wang**, H. Liu, Y. Fang, S. Zhang, D. Lin, K. Chen
[3] HubRouter: Learning Global Routing via Hub Generation and Pin-hub Connection   **NeurIPS 2023**
X. Du, **C. Wang**, R. Zhong, J. Yan

EXTRACURRICULAR EXPERIENCE

Social Practice on Student Transition Programs *Leader*   **June 2021 - July 2021**
- Led a group of over 10 students, coordinated activity schedule and venue, counseled and advised high school students in alma mater

HONORS & AWARDS

The First Prize of Xiaomi Scholarship(Top 1%)   **Nov. 2022**
Merit Student at SJTU(Top 3%)   **Oct. 2022**
The Second Prize Scholarship(Top 10%)   **Nov. 2021/Nov. 2022/Nov. 2023**

SKILLS

Programming Languages: Python, C/C++, C#, Coq, Matlab, Verilog
Languages: Mandarin (native) , English (TOEFL 109)