YI FU (SUMMER)

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EDUCATION

University of New South Wales

Master of Philosophy (Research)   **Feb 2023 - Present**

Bachelor of Computer Science   **Sept 2020 - Feb 2023**

- UNSW Global Academic Award PUCA1027.
- Awarded as outstanding volunteer in UNSW Global.

EXPERIENCE

Research   **Feb 2023 - Present**

- Advised by Professor Maurice Pagnucco and Professor Yang Song.
- Specialise in SubSymbolic AI, Machine Learning, Constraint Satisfaction and Optimization.
- First-author paper accepted at The 4th Workshop on Mathematical Reasoning and AI at NeurIPS'24 and in submission to AISTATS 2025.
- ICAPS 2025 Conference Reviewer.

Casual Academic   **Sept 2023 - Present**

- Casual Tutor and Marker of COMP3421 -Computer Graphics course and COMP3511 - Human Computer Interaction at UNSW.

Engineer VIP   **Feb 2022 - 2023**

- Worked in the VIP (Vertically Integrated Projects) AI4Everyone lab.

Accenture   **Jan 2022 - Mar 2022**

- Worked with Accenture to deliver a response to COVID-19 focusing young people, while generating suggestions for government services and supports.

Student Course Representative   **Sept 2020 - Dec 2020**

- Worked as student course representative in Higher Mathematics 1A -Algebra, Calculus at UNSW.

Volunteer   **Sept 2020 - Present**

- ISMAR 2023 volunteer.
- Organised and attended volunteering activities at Arc-UNSW.

PROJECTS & ACTIVITIES

Research Outputs

- Developed a SAT dataset **StructureSAT** for better generalisation in GNN based solver.
- Developed an efficient hybrid solver **NeuroCadical** combining GNN and traditional solvers.

Software Projects

- Developed a (USAR) robot (**Turtlebot3**) in **ROS2** and **Python**.
- Developed a Recipe Finding website in **Python, Javascript,** and custom AI searching algorithm
- Developed a first person puzzle game **Visieyre**, with VR and 3d in **Unreal Engine** with **C++.**

SKILLS

- **Technical Skills:** Programming language (Python, C, C++, Java), Machine Learning, Constraint Solving, Game Engine (Unreal Engine, Unity), 3D modeling, Robotics Operating System (Ros2), Frontend Development, Database, Knowledge Representation and Reasoning.