

HARRISON OATES

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EDUCATION

The Australian National University <i>Advanced Computing (Research & Development) (Hons.) / Politics, Philosophy & Economics - 6.81 GPA</i>	Canberra, ACT 2022 – 2026
St. Augustine's College <i>Queensland Certificate of Education - ATAR 99.90 & graduated Dux</i>	Cairns, QLD 2016 – 2021

AWARDS & SCHOLARSHIPS

CAS Hawker Scholarship <i>for leadership and contribution to Australian society</i>	2022
National University Scholarship <i>for an ATAR of 99.90</i>	2022
TJ Ryan Memorial Medal & Scholarship <i>for outstanding leadership and academic excellence</i>	2022
Cairns 30 under 30 <i>Cairns Post</i>	2022
Young Citizen of the Year <i>Cairns Regional Council Australia Day award</i>	2021

EXPERIENCE

Data Analyst <i>Australian Institute of Health and Welfare</i>	Jul. 2024 - Present Canberra, ACT
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- In this role I undertake confidentiality and governance checks of files entering and leaving Secure Access Environments, and ensure outputs are fit for publication by preventing attribute disclosure.
- I also provide support for the maintenance and provision of AIHW's data assets and support other data governance and integration activities across the group as required.

Intern Software Analyst <i>Exemplary Energy</i>	Feb. 2024 - Present Canberra, ACT
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- I developed and evaluated a novel machine learning system to disaggregate precipitation measurements from daily to half-hourly to provide data for better building performance simulation.
- First author conference paper accepted at the 2024 Asia-Pacific Solar Research Conference.

Academic Board Subcommittees Undergraduate Member <i>The Australian National University</i>	Dec. 2022 – Present Canberra, ACT
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- Execute governance duties under Public Governance, Performance & Accountability Act 2013
- University Research Committee (Dec. 2022-Present): The Committee advises the Academic Board and the Vice-Chancellor on matters relating to the quality and standard of ANU research, and on major issues of research relevant to strategic plans and overarching policy.
- Academic Quality Assurance Committee (Dec. 2023-Present): The Committee is tasked to monitor, advise and provide assurance to the Academic Board on the quality of the University's educational programs and activities.

Undergraduate Coursework Officer <i>ANU Students' Association</i>	Dec. 2023 – Present Australia
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- I advocate for the education, welfare, and student experience of undergraduate students, and support College Representatives in their roles.
- I was previously College of Engineering, Computing & Cybernetics Representative from Dec. 2022 – Nov. 2023
- Director of the Association from Dec. 2022 – Present

President <i>ANU Computer Science Students' Association</i>	Sep. 2023 – Sep. 2024 Canberra, ACT
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- Led strategic planning and statutory compliance as head of incorporated association
- Chaired executive committee and managed key stakeholder relationships
- Developed and executed organizational vision and growth strategy

eSafety Youth Council Member <i>eSafety Commissioner</i>	Apr. 2022 – Apr. 2024 Australia
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- Announced by the Prime Minister in December 2021, the Council provides advice to government about issues that young people experience online and explore ways of supporting them to have positive online experiences.

- Work I contributed to included the Roadmap for Age Verification, Generative AI's impact on young people, and barriers to reporting online harms
- Additionally, I launched an open letter to Big Tech on Safer Internet Day 2023, met with senior APAC leaders of Big Tech organizations to discuss online safety measures, and attended the 2024 National Youth Forum

Youth Advisor

Jun. 2023 – Present

The Ethics Centre

Sydney, NSW

- I advise the Centre on their youth engagement strategy to help build the skills and capacity of young people to live and act according to their values.

Debate 2 Regulate delegate

Apr. 2024 – May 2024

Asean-Australia Strategic Youth Partnership

Australia / Thailand

- I was an Australian delegate at the Debate to Regulate (D2R) Future Online Safety Leaders program, held in Bangkok, Thailand.
- As part of the program I built skills in online safety and human-rights based regulation and knowledge about the ASEAN-Australian relationship

Competition Specialist

Feb. 2022 – Dec. 2023

ANU Solar Racing Team

Canberra, ACT

- Responsible for managing competition timeline for World Solar Challenge entry.
- In charge of strategy and race logistics, applying computer science background to develop a sophisticated race strategy to finish race in the fastest time possible based on simulation model of car.
- My strategy work helped the team start the race in P8 as fastest Australian team in-class, and complete more of the event than any previous ANU team.

Young Ambassador

Nov. 2021 - Jun. 2023

United Nations Children's Fund (UNICEF)

Australia

- Trained in leadership, government advocacy, media and communications.
- Research and policy role, advocating for children's rights.
- Led nationwide consultations, co-designed policy responses and presented recommendations to government.

Metaverse Youth Consultant

Apr. 2022 - Aug. 2022

Project Rokit & Meta

Australia

- Explored how to embed safety and wellbeing into the core of the metaverse, from both a technical and social perspective. This culminated in a report - 'Our Metaverse: Young People and the Digital Future', which was presented at the global 2022 Meta Summit on Youth Safety and Wellbeing.

PROJECTS

Theorem Provers: One Size Fits All? | *Supervised by Dirk Pattinson*

Jul. 2023 – Nov. 2023

- Comparative study of the Coq and Idris2 interactive theorem provers to determine relative strengths and weaknesses of each system.
- Project undertaken as part of COMP2560 at the ANU.

Towards Computationally Efficient Moral Agents

Feb. 2023 – Jun. 2023

- Literature review and research proposal looking at the impact of formalizing ethical constraints on the computational complexity of solving Markov decision processes, with a particular focus on deontic logic approaches
- Project undertaken as part of COMP2550 at the ANU.

TECHNICAL SKILLS

Languages: Python, C, Java, Haskell, SQL, Coq, \LaTeX

Libraries: pyTorch, scikit-learn, pandas, numpy

Other technologies: Linux, Git, Excel