# Hyeonggeun Yun

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## Academic Experience

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| Dec, 2025 – Feb, 2026 | **Vacation Research Intern** at The University of Sydney. Research project "Fair Play in Machine Learning: Tackling Bias in Data" with Prof. Shahadat Uddin. |
| Jul, 2023 – Nov, 2025 | **Teaching Assistant (TA)** at The Australian National University. 2025 Semester 2: COMP3670 - Introduction to Machine Learning 2024 Semester 2: COMP1600 - Foundations of Computing 2023 Semester 2: COMP1600 - Foundations of Computing |
| Mar, 2022 – Current | **Private maths and computer science tutor** at Superprof (freelance). Only active tutor in Canberra to have achieved the highest tutoring level of 'Ambassador'. |
| Mar, 2022 – Jan, 2025 | **General and leadership team member** at ANU Solar Racing. Feb, 2024 – Jan, 2025: Resources and Development lead Mar, 2022 – Feb, 2024: Operational Generalist Participated in 2023 Bridgestone World Solar Challenge as a solar car driver. |

## Research Experience

### Thesis

1. H. Yun, H. Suominen, and A. Barnard, "SHIELD: A SHapley and Information-theory based framework for Equitable Learning via Dissimilar feature grouping," Australian National University, Oct. 2025.

### Preprints

1. H. Yun and Q. Deng, *An Eulerian Data Assimilation Method for Two-Layer Quasi-Geostrophic Model in Physical Domain*, submitted to SIAM/ASA Journal on Uncertainty Quantification, Nov. 2025. 🔗 DOI: 10.48550/arXiv.2509.14586.

2. H. Oates, H. Yun, and N. Gurusinghe, *Theorem Provers: One Size Fits All?* Sep. 2025. 🔗 DOI: 10.48550/arXiv.2509.15015.

## Education

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| 2022 – 2025 | **Bachelor of Advanced Computing (Research and Development) (Honours), The Australian National University**, specialised in Machine Learning First Class Honours, GPA - 6.594/7.000, WAM - 82% Thesis title - *SHIELD: A SHapley and Information-theory based framework for Equitable Learning via Dissimilar feature grouping,* scored 90% (High Distinction: 80%+). |
| 2018–2021 | **International Baccalaureate Diploma, Townsville Grammar School** Final score: 42 (equivalent of 99.10 ATAR) |

## Skills

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| Languages | ▉ | English (fluent), Korean (fluent), Spanish (beginner) |
| Programming Languages | ▉ | Python, Java, MATLAB, SQL, LaTeX |

## Miscellaneous

### Community Services

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| 2022-2024 | ▉ | **20+ Community Outreaches**, ANU Solar Racing. <br> Inspired students at local and regional schools about sustainable energy and STEM |
| 2020-2021 | ▉ | **Academic Tutor**, Cowboys Community Foundation. <br> Volunteered to provide tutorials on various subjects, mainly Maths and Science to remote, aboriginal boarding students in Cowboys House. |
| 2019 | ▉ | **Cultural and Academic Volunteer**, Ethiopian Education Foundation. <br> Mutually interacted with students at the Ethiopian Education Foundation (on-site), sharing Australian and Korean cultures as well as helping them academically for 3 weeks. |

### Awards and Achievements

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| 2021 | ▉ | **Boarder Dux (1st)**, Townsville Grammar School. |
| | ▉ | **Blank Memorial Prize for the service to the school (Boy)**, Townsville Grammar School. |
| | ▉ | **Chester Parker Citizenship Award**, Townsville Grammar School. |
| | ▉ | **Quick Family Prize for Academic Excellence (3rd)**, Townsville Grammar School. |
| | ▉ | **Subject prizes (1st)**, Townsville Grammar School. <br> IB Mathematics: Analysis and Approaches (HL) <br> IB Physics (HL) <br> IB Chemistry (HL) <br> IB Psychology (SL) |
| 2020 | ▉ | **George Hall All-Rounder**, Townsville Grammar School. |

## References

**Prof. Hanna Suominen**
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**Prof. Amanda S. Barnard (AM)**
Senior Professor, Associate Director,
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**Prof. Quanling Deng**
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