

Ng Wang Heng

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📖 EDUCATION

University of Macau <i>Bachelor's Degree Programme – Mathematics and Applications</i>	Sept 2024 – Present <i>CGPA: 3.77/4.00</i>
Honours College <i>Honours College Certificate Programme</i>	<i>CGPA: ?./4.00</i>

🏆 CERTIFICATES & AWARDS

Mathematics	May 2023 - Nov 2024
<ul style="list-style-type: none">• First prize of the 16th National Undergraduate Mathematics Competition• The Sliver Honor of Hong Kong & Macau Mathematical Olympiad Open Contest cum Asia International Mathematical Olympiad Open Contest Trial	
Mathematical Modeling	Aug 2023 - Aug 2024
<ul style="list-style-type: none">• Designated as Finalist of 2023 The 9th Annual International Mathematical Modeling Challenge (The Regional Contest of Greater China)• Designated as Finalist of 2023 The 9th Annual International Mathematical Modeling Challenge (The International Contest of Greater China)• Designated as Outstanding of 2024 The 10th Annual International Mathematical Modeling Challenge (The Regional Contest of Mainland, Taiwan, Hong Kong, and Macau)• Designated as Meritorious of 2024 The 10th Annual International Mathematical Modeling Challenge, (The International Contest)	
Piano	Aug 2018 - Oct 2019
<ul style="list-style-type: none">• ABRSM Level 2 Award in Graded Examination in Music Theory (GRADE 5 MUSIC THEORY)• ABRSM Level 3 Award in Graded Examination in Music Performance (GRADE 8 PIANO)	
Science & Engineering	Jun 2022 - Oct 2023
<ul style="list-style-type: none">• The Second place of 2023 WRO “Olympic Robot Competition” Macau Region Selection• The Second prize of 2022 WRO “Olympic Robot Competition” Macau Region Selection• The third prize of 2023-2024 Academic Chemistry Competition of the Academic Year	

🔍 RESEARCH INTERESTS

Sequential Decision | 🏗️

Optimal detection scheme model based on sequential probability ratio test and dynamic programming decision tree

Machine Learning, Correlation Analysis | 🏠

Shattering Boundaries in Olympic Medal Counts Future Projection: The Synergy of Random Forest and Structural Equation Model, Spectral analysis system based on machine learning

Programming | 🖥️

Mathematical editor software platform, Mathematical model simulation system platform

💡 SKILLS

Programming Languages: Python, MATLAB, \LaTeX

Tools: SPSS, Stata, Office software, Adobe software