**CHEN HENG-LE**

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**ACADEMIC QUALIFICATIONS**

**Yale-NUS College** **Aug 2021 - May 2025**

*Bachelor’s Degree (Honours), Major in Mathematical, Computational and Statistical Science*

* With a concentration in Data Science (DS)
* Co-Curricular Activities: Yale-NUS Hacks, Yale-NUS Swimming, NUS Pawfriends

**Anglo-Chinese School (Independent)**  **Jan 2013 - Nov 2018**

International Baccalaureate Diploma Programme, *42 points for IBDP examinations*

* A Level coursework: Mathematics, Physics, Literature in English, Economics, History, Chinese B
* Leadership: Class Chairman 2017-2018, Patrol Leader in Scouts 2016-2018

**PROFESSIONAL EXPERIENCE**

**Research Assistant – Computer Science** [Singapore] **Jan 2023 – Current**

*Yale-NUS College/National University of Singapore*

* Assisted a professor in conducting research on Human-Computer Interaction, specifically on how humans perceive AI and how this perception influences their interaction with AI-powered systems.
* Collected and analyzed large amounts of data using statistical software such as R and Python, including data cleaning, transformation, and visualization.
* Participated in weekly lab meetings, presenting findings and discussing research progress, as well as providing feedback and suggestions to other members of the research team.

**Student Researcher – Life Sciences/Data Analytics** [Singapore] **May 2022 – Current**

*Yale-NUS College*

* Updated and restructured the Yale-NUS College Insectary Lab MySQL database to update missing data points and prevent duplication.
* Performed spectroscopy and DNA analysis on insect specimens, to explore the effects of color on the sexual selection of insects by writing Python and R scripts to visualize spectroscopy data via graphs.
* Wrote Python and R scripts to visualize spectroscopy data via graphs.

**LEADERSHIP EXPERIENCE**

**Bone Marrow Donation Drive** [Singapore]  **Apr 2017 – Aug 2017**

*Project Coordinator, Bone Marrow Donor Programme (Singapore)*

* Oversaw proposal development; handled communications and relations with executive members of Bone Marrow Donor Programme in Singapore to obtain funding and resources
* Planned and executed a bone marrow drive to raise awareness, engage in swab processing, and recruit more than 500 marrow donors for potential bone marrow transplants
* Managed data on excel, cleaning the quantitative data gathered and sending it to a national database

**SKILLS & INTERESTS**

* **Languages:** English, Chinese (Mandarin)
* **Skills:** R, MS Office, Data Analysis, Fusion360, Python programming
* **Relevant Coursework:** Software Engineering, Programming for Data Science, Introduction to Computer Science, Introduction to Data Science