

# Yulong Huang

4th Year Computer Science Student at Cambridge

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## EDUCATION

**Robindon College, University of Cambridge / 2018-present** (graduates 2022)

Currently studying the Computer Science Tripos, Part III (M.Eng)

**Course coverage:** Digital signal processing with music, Computer graphics, Concepts in machine learning, Computer vision, Information theory, Cryptography

**Third-year tripos result:** Class I

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## PROGRAMMING LANGUAGES

- ▶ Proficiency with: C, Java, Python, Lua
  - ▶ Familiar with: C++, ML, Java Script, RISC-V
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## PROJECT EXPERIENCE

**Independent Game "Programmable Hanafuda" / June 2020 - now**

I am the creator of an independent game *Programmable Hanafuda*. This game features on playing the traditional Japanese card game, *Hanafuda*, with user-defined game rules against the computer. The game provides a script language for rule definitions, interprets the rules and loads them to the game engine before a match starts. I designed the script language, built the underlying game engine, the interpreter, the AI opponents and the full GUI from scratch.

**Als for playing Yahtzee (Research Project) / Oct 2020 - May 2021**

I studied methods and performances of building programs that plays *Yahtzee* (a dice game) in this individual research project. My works focused on implementing different reinforcement-learning training schemes, re-creating and verifying non-ML methods proposed by previous researchers.

**OCR Application for Hand-Writing Notebooks / Feb 2020 – April 2020**

As part of a team, I joined this project for developing a software that transcribes hand-written notes to texts and tables automatically for the Museum of *Cambridge University Museum of Zoology*. I helped to design and implement a user-friendly interface for museum staffs who are not good at handling technology.

**Maze Game on FPGA / Nov 2019**

I created a maze game on a primitive FPGA board with no OS support. I managed to implement random number generation, maze generation, player control, and short animations on my own.

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## ADDITIONAL SKILLS AND INTERESTS

### Music

Non-professional pianist and keyboardist, focusing on classical pieces from Bach, Beethoven and Chopin. Also played in the college rock band.