Qingyuan Wang

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github.com/hatttoomma

Education

BS in Computer Science and Technology *Peking University* **Beijing, China** *2022–2026 (expected)*
GPA: 3.5/4.0
Relevant Courses: Advanced Mathematics A, Linear Algebra A, Data Structures and Algorithms, Algorithm Design and Analysis, Probability Theory and Statistics in Information Science, Fundamentals of Artificial Intelligence, Operating Systems, Java Programming, Foundation of Parallel Algorithm Design

Berkeley Global Access Student *UC Berkeley* **California, USA** *2024*
Relevant Courses: Introduction to Machine Learning, Great Ideas in Computer Architecture (Machine Structures), Computability and Complexity

Research Experience

Peking University, Visual Information & Exploration (VIE) Group **Beijing, China** *2023–Present*

- **Research Topic:** Curriculum Learning for Image Quality Assessment
- **Supervisor:** Prof. Tingting Jiang (Peking University)
- Inspired by the human learning process, the project enables the model to utilize previously acquired knowledge for solving more complex tasks by incorporating additional information.
- Designed multi-level tasks based on quality classification and leveraged prior knowledge to tackle more challenging tasks.
- Experimental results show superior performance over state-of-the-art methods.
- **Technologies:** Python, PyTorch, NumPy, OpenCV

Project Experience

Peking University **Beijing, China** *Spring 2023*
Course Project: Practice of Programming in C&C++
Collaborated with two teammates to develop an interactive game project *Fight The Landlord* using C++ and Qmake. Implemented gameplay mechanics and user interface.
Link to Project Repository

Peking University **Beijing, China** *Fall 2022*
Course Project: Introduction to Computation (A)
Designed and implemented a simple strategy game *No-Go Chess* using C++. Participated in the game competition on Botzone.
Link to Botzone Competition

Peking University **Beijing, China** *2023–Present*
Software Engineer
Developed a web application that calculates skin lesion scores using deep neural networks for images uploaded by users. Project in collaboration with Peking University First Hospital. Integrated back-end and front-end components using Python and Flask.

Skills

- **Programming Languages:** C++, Python, Java, C, x86 Assembly, RISC-V Assembly
- **Tools & Frameworks:** PyTorch, TensorFlow, Git, Qmake
- **Low-level Programming:** Familiar with assembly languages for x86 and RISC-V architectures
- **Operating Systems:** Linux, Windows, Mac