

# Changdao He

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Professor Alice Gao  
University of Toronto  
Toronto, ON

Dear Professor Gao,

I am writing to express my strong interest in joining your *Hanabi Agent Design* project under the CSC494/495 course. As a student currently enrolled in your *Introduction to Artificial Intelligence (CSC384)* course, I have developed a deep curiosity for AI-driven problem-solving and a particular interest in designing intelligent game agents. This project offers the perfect opportunity to build on my newfound passion for heuristic-based problem-solving and game theory.

Through the recent coursework and assignments in your class, I found that formulating heuristic functions to guide search algorithms was particularly fascinating. Working on these assignments helped me appreciate the challenge of balancing creativity with efficiency, sparking a desire to dive deeper into building agents capable of solving complex problems under uncertainty. I am excited about the possibility of applying these skills to the *Hanabi* project, where both cooperation and strategy play crucial roles.

This project aligns with my goal to explore the development of intelligent agents for increasingly complicated games and learn more about game-solving algorithms through research. I am eager to collaborate with others on this project, drawing on my programming experience and problem-solving mindset. I believe my background in languages such as Python, Java, and C, along with my ability to work independently and in teams, will allow me to make meaningful contributions.

I look forward to the opportunity to further discuss how I can contribute to your research and expand my knowledge in this field. Thank you for your time and consideration.

Sincerely,

**Changdao He**