1. Reinforcement learning
2. NAO robot competition
3. Purdue program synthesis

Hi, I am Tian Qi, now studying in Nanjing University, China for a bachelor degree in software engineering major. I am applying for the MIIS program in the language technology institution of Carnegie Mellon University. In this video, I am going to illustrate my strong interest and abilities for the program. My previous research experience lies mostly on reinforcement learning. It concerns with how [software agents](https://en.wikipedia.org/wiki/Software_agent) ought to take [actions](https://en.wikipedia.org/wiki/Action_selection) in an environment so as to maximize some notion of cumulative reward. I mainly focus on putting forward a new method to solve the POMDP problems. I used plenty of data to train the agents to help them make the most correct decisions in an unfamiliar environment. I have finished a paper based on this project and the paper had been published successfully. Rich project experience won me the opportunity to do summer research in Professor Xiaokang Qiu's Program Synthesis team in Purdue University. It aims to automatically construct a [program](https://en.wikipedia.org/wiki/Computer_program) that satisfies a given high-level specification. I also have my internship in SAP labs China as a software engineer. During this internship, I learned how a company deal with the big data and how to use them to provide better service for their clients. After my academic foundation and research experience, I have made my mind to devote myself in information processing. I always believe that the best way to predict the future is to create it, and this field can provide me a platform to create my academic future. Thank you very much for watching and have a good day.