

# HAOFEI HOU

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## EDUCATION

**Huazhong University of Technology and Science**

Sept 2020 – Present

*Software Engineering - 93.87 - (1/120)*

*Wuhan, Hubei*

## COURSEWORK / SKILLS

- Artificial Intelligence
- CoCoSci
- RL
- HCI
- Operating Systems
- Web Development
- Web Operations
- Image Processing

## PROJECTS

**Multimodal Video Similarity Computation** | [CV](#), [DL](#)

10 2021

- Classification problem.
- transformer, pytorch.
- QQ browser 2021 AI Algorithm competition Participation Award.

**Visual Robot Control** | [CV](#), [PID](#), [Robotics](#)

11 2021

- Control the robot to complete the specified trajectory of the movement, using a camera.
- traditional CV, demo-based programming.
- China University Intelligent Robot Creative Competition National Third Prize.

**ProbSol-Worlds** [↗](#) | [CoCoSci](#), [Pytorch](#), [Gym](#), [Meta-RL](#), [Web Operations](#)

10 2022

- [Not finish yet.](#)

## PUBLICATIONS

**Converge and diversify: Abductive task abstractions in physical problem-solving** [↗](#)

03 2023

- Modeling the prior of goals and constraints in **human problem-solving**.
- [Stay shots.](#)

## INTERNSHIP

**Institute for Artificial Intelligence, Peking University** [↗](#)

06 2022 – Present

*Undergraduate Research Assistant*

*Online*

- Front-end and back-end programming, website operation and maintenance.
- Run human behavior experiments and deal with data.
- Reinforcement learning baselines, especially **maskable-Meta-Q-Learning**.

## TECHNICAL SKILLS

**Languages:** Python, Numpy, Java, C, C++, JavaScript, SQL, matlab

**Developer Tools:** VS Code, DataGrip, IntelliJ Idea Ultimate

**Technologies/Frameworks:** Pytorch, Linux, GitHub, Git, SpringMVC, SpringBoot

## CERTIFICATIONS

**National Olympiad in Informatics in Provinces(NOIP)**

12 2017

*First Prize in Shandong Province*

**National Mathematical Competition for College Students (Non-Mathematics)**

12 2021

*First Prize in Hubei Province*

**Undergraduate National Scholarship Honors**

12 2021

**LanqiaoBei National Software and Information Technology Competition**

04 2022

*First Prize in Hubei Province*

**Mathematical Contest in Modeling**

05 2022

*Finalist Award*