

# 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
- RL
- Operating Systems
- Web Operations
- CoCoSci
- HCI
- Web Development
- Image Processing

## PROJECTS

**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**.
- Tries to solve problem by **Meta-RL** in **self-designed environment**.

## INTERNSHIP

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

06 2022 – Present

*Undergraduate Research Assistant*

*Online*

- Write front-end and back-end programs and conduct website operation and maintenance for human behavior experiments.
- Run human behavior experiments and deal with data.
- Change the self-designed-Env(program part of it) interface and implement **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*

**QQ browser 2021 AI Algorithm competition**

10 2021

*Participation Award*

- Task of Multimodal Video Similarity Computation, Pytorch

**China University Intelligent Robot Creative Competition**

11 2021

*National Third Prize*

- Task of Vision Competition(robot control through a track), traditional CV, PID, demo-based-programming

**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*