

# Hao Hu

## EDUCATION

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SEPT. 2019 - Present	<b>IIIS, Tsinghua University</b> , Beijing, China Ph.D. Candidate in Computer Science GPA: 3.92/4, RANKING: 1/15
SEPT. 2015 - JUN. 2019	<b>Peking University</b> , Beijing, China B.Sc. in Theoretical and Applied Mechanics GPA: 3.73/4, RANKING: 5/31 Double Major: Computer Science and Technology

## RESEARCH EXPERIENCE

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SEP. 2019- PRESENT	Research in <b>Reinforcement Learning</b> Supervisor: Prof. <a href="#">Yang Gao</a> and Prof. <a href="#">Chongjie Zhang</a> <a href="#">Machine Intelligence Group</a> , IIIS, Tsinghua University, China <b>Topic: Data-Driven Reinforcement Learning</b>
NOV. 2017- JUN. 2018	Research in <b>Computer Vision</b> Supervisor: Prof. <a href="#">Shiliang Zhang</a> <a href="#">Vision and Media Computing Group</a> , Peking University, China <b>Topic: Semantic Segmentation</b>

## PAPERS AND PREPRINTS

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- [Generalizable Episodic Memory for Deep Reinforcement Learning](#)  
**Hao Hu**, Jianing Ye, Zhizhou Ren, Guangxiang Zhu, Chongjie Zhang  
Thirty-eighth International Conference on Machine Learning (ICML), 2021
- [On the Role of Discount Factor in Offline Reinforcement Learning](#)  
**Hao Hu\***, Yiqin Yang\*, Qianchuan Zhao, Chongjie Zhang  
Thirty-ninth International Conference on Machine Learning (ICML), 2022
- [The Provable Benefit of Unsupervised Data Sharing for Offline Reinforcement Learning](#)  
**Hao Hu\***, Yiqin Yang\*, Qianchuan Zhao, Chongjie Zhang  
Eleventh International Conference on Learning Representations (ICLR), 2023
- [Flow to Control: Offline Reinforcement Learning with Lossless Primitive Discovery](#)  
Yiqin Yang\*, **Hao Hu\***, Xiaoteng Ma\*, Wenzhe Li\*, Siyuan Li, Chongjie Zhang, Qianchuan Zhao  
Thirty-Seventh AAAI Conference on Artificial Intelligence. (AAAI), 2023
- [Offline Reinforcement Learning with Value-based Episodic Memory](#)  
Xiaoteng Ma\*, Yiqin Yang\*, **Hao Hu\***, Qihan Liu, Jun Yang, Chongjie Zhang, Qianchuan Zhao, Bin Liang  
Tenth International Conference on Learning Representations (ICLR), 2022
- [MetaCURE: Meta Reinforcement Learning with Empowerment-Driven Exploration](#)  
Jin Zhang\*, Jianhao Wang\*, **Hao Hu**, Tong Chen, Yingfeng Chen, Changjie Fan, Chongjie Zhang

Thirty-eighth International Conference on Machine Learning (ICML), 2021

- [On the Estimation Bias in Double Q-Learning](#)

*Zhizhou Ren, Guangxiang Zhu, Hao Hu, Beining Han, Jianglun Chen, Chongjie Zhang*

Thirty-fifth Conference on Neural Information Processing Systems (NeurIPS), 2021

## EXPERIENCE AND SERVICES

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### Engineering Intern

JUN. 2018 - SEPT. 2018      MICROSOFT STCA, NEWS & RELEVANCE TEAM

### Teaching Assistant

SEPT. 2020 - JAN. 2021      Artificial Intelligence: Principles and Techniques, Fall, 2020

SEPT. 2021 - JAN. 2022      Artificial Intelligence: Principles and Techniques, Fall, 2021

FEB. 2022 - PRESENT      Deep Reinforcement Learning, Spring, 2022

## HONORS AND SCHOLARSHIPS

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2021-2022      TOYOTA Scholarship

MAY 2017      Second Prize in Zhou Peiyuan Mechanics Competition

2016-2017      **National Scholarship**

SEPT. 2016      Grand Prize in National College Students Physics Competition

2015-2016      Award for Academic Excellents

## CONTACT

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