胡 昊

手机: (+86) 18811576155

邮箱: huh22@mails.tsinghua.edu.cn

个人主页: https://mousehu.github.io/

教育背景 EDUCATION

清华大学, 交叉信息研究院, *博士研究生在读*   2019 年 9 月 - 至今
    专业　计算机科学与技术
    GPA　3.92/4　　　　　排名　1/15

北京大学，工学院，*理学学士*   2015 年 9 月 - 2019 年 7 月
    专业　理论与应用力学
    GPA　3.73/4　　　　　排名　5/31

北京大学，信息科学与技术学院，*理学学士*   2016 年 9 月 - 2019 年 7 月
    专业　计算机科学与技术 (双学位)

科研经历 RESEARCH

Machine Intelligence Group , 清华大学, 交叉信息研究院   2019 年 9 月 - 至今
    导师　张崇洁 助理教授　高阳 助理教授
    研究方向　深度强化学习，强化学习理论，离线强化学习

NURL Group, Northwestern University, IEMS   2023 年 4 月 - 2023 年 9 月
    导师　汪昭然 助理教授
    研究方向　强化学习理论

VMC Group, 北京大学, 信息科学与技术学院   2017 年 11 月 - 2018 年 6 月
    导师　张史梁 副教授
    研究方向　语义分割，自动驾驶

实习经历 INTERNSHIP

微软亚洲工程院，软件开发实习生   2018 年 6 月 - 2018 年 9 月
- 基于 Bing 点击数据的新闻文本分类与时事通讯推荐
- Sagitt 等内部工具开发

发表论文 PUBLICATIONS

- **Reason for Future, Act for Now: A Principled Architecture for Autonomous LLM Agents**
  Zhihan Liu*, **Hao Hu***, Shenao Zhang*, Hongyi Guo, Shuqi Ke, Boyi Liu, Zhaoran Wang
  NeurIPS Workshop on Foundation Models for Decision Making, 2023

- **Unsupervised Behavior Extraction via Random Intent Priors**
  Hao Hu*, Yiqin Yang* Jianing Ye, Ziqing Mai, Chongjie Zhang
  Thirty-seventh Conference on Neural Information Processing Systems (**NeurIPS**, 2023)

- **One Objective to Rule Them All: A Maximization Objective Fusing Estimation and Planning for Exploration**
  Zhihan Liu* Miao Lu* Wei Xiong* Han Zhong, **Hao Hu**, Shenao Zhang, Sirui Zheng, Zhuoran Yang, Zhaoran Wang
  Thirty-seventh Conference on Neural Information Processing Systems (**NeurIPS**, 2023)

- **What is Essential for Unseen Goal Generalization of Offline Goal-conditioned RL?**
  Ruiyang, Yong Lin, Xiaoteng Ma, **Hao Hu**, Chongjie Zhang, Tong Zhang
  Fortieth International Conference on Machine Learning (**ICML**), 2023

- **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***, Wenzhe Li*, Siyuan Li, Chongjie Zhang, Qianchuan Zhao*
  Thirty-Seventh AAAI Conference on Artificial Intelligence. (**AAAI**), 2023

- **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

- **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

- **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

- **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

- **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

- **Query-Efficient Offline Preference-Based Reinforcement Learning via In-Dataset Exploration**
  Hao Hu, Yiqin Yang*, Shuai Wang, Bo Liu, Yang Gao, Chongjie Zhang*
  Under Review

- **Bayesian Offline-to-Online Reinforcement Learning : A Realist Approach**
  Hao Hu, Yiqin Yang*, Jianing Ye, Ziqing Mai, Yujing Hu, Tangjie Lv, Changjie Fan, Qianchuan Zhao, Chongjie Zhang*
  Under Review

- **Stylized Offline Reinforcement Learning: Extracting Diverse High-Quality Behaviors from Heterogeneous Datasets**
  *Yihuan Mao, Chengjie Wu, Xi Chen, **Hao Hu**, Ji Jiang, Tianze Zhou, Tangjie Lv, Changjie Fan, Zhipeng Hu, Yi Wu, Yujing Hu, Chongjie Zhang*
  Under Review

获得荣誉 HONORS

灵均领航奖学金	2023-2024
惠妍英才奖学金	2022-2023
丰田奖学金 (一等)	2021-2022
北京大学优秀毕业生	2019.7
全国周培源力学竞赛二等奖	2017.5
国家奖学金	2016-2017
全国大学生物理竞赛（部分赛区）特等奖	2016.9
北京大学学习优秀奖	2015-2016

获得荣誉 HONORS