

# JINKE HE

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## EDUCATION

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<b>Delft University of Technology, The Netherlands</b> Doctor of Philosophy in Artificial Intelligence Supervisor: Prof. Frans A. Oliehoek	September 2019 - 2023 (expected)
<b>University of Oxford, United Kingdom</b> Master of Science in Computer Science Supervisor: Prof. Shimon Whiteson	September 2018 - September 2019 <b>Distinction</b>
<b>University of Liverpool, United Kingdom</b> Bachelor of Science in Artificial Intelligence	September 2016 - June 2018 <b>First Class Degree</b>
<b>Xi'an Jiaotong-Liverpool University, China</b> Bachelor of Science in Information and Computing Science	September 2014 - June 2016 <b>First Class Degree</b>

## WORK EXPERIENCE

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<b>Latent Logic, Oxford (now part of Waymo)</b> <i>Research Intern</i> Researched on neural network architecture search.	July 2018 - September 2018
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## TEACHING AND SUPERVISION

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<b>Supervisor, Delft University of Technology</b> Daniele Foffano, Master Thesis Topic: Robust Ensemble Adversarial Model-Based Reinforcement Learning	2020 - 2021
<b>Teaching Assistant, Delft University of Technology</b> Artificial Intelligence Techniques (IN4010), a master-level course	2020 - 2022

## ACADEMIC ACTIVITIES AND SERVICES

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<b>The Machine Learning Summer School</b> Max Planck Institute for Intelligent Systems, Tübingen, Germany	June 2020 - July 2020 <b>Acceptance rate: 180/1300+</b>
<b>Conference Reviewer</b> NeurIPS 2021-2022, ICML 2022	

## HONOURS AND AWARDS

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<b>Third place, The Neural MMO Challenge at IJCAI 2022</b> <a href="https://www.aicrowd.com/challenges/ijcai-2022-the-neural-mmo-challenge">https://www.aicrowd.com/challenges/ijcai-2022-the-neural-mmo-challenge</a> among 100 teams and 500 participants	July 2022 <b>winner prize: 1500\$</b>
<b>Joint first place, The Pathways to Net Zero challenge</b> <a href="https://rangl.org/blog/">https://rangl.org/blog/</a>	March 2022
<b>BCS Merseyside Prize, University of Liverpool</b> <i>The BCS Merseyside Prize is awarded for the best student on a degree programme in the remit of the Board of Studies in Computer Science.</i>	July 2018
<b>O'Reilly Academic Prize Scheme 2017, University of Liverpool</b> <i>The O'Reilly Academic Prize is for the best performance on COMP201 Software Engineering.</i>	August 2017

- University of Liverpool XJTLU Scholarship (two years, £4,338 each year)** February 2017  
*An international student, merited-based scholarship.*
- Meritorious Winner of 2016 Interdisciplinary Contest In Modeling** April 2016  
*Top 18% among 5025 teams participated.*
- University Academic Excellence Award, Xi'an Jiaotong-Liverpool University** August 2015  
*The progression scholarship are awarded to XJTLU students for their outstanding academic performance in the previous academic year.*

## PUBLICATIONS

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Distributed Influence-Augmented Local Simulators for Parallel MARL in Large Networked Systems

Miguel Suau, **Jinke He**, Mustafa Mert elikok, Matthijs T. J. Spaan, Frans A. Oliehoek.

*Conference on Neural Information Processing Systems (NeurIPS)*, 2022.

Influence-aware Memory Architectures for Deep Reinforcement Learning

Miguel Suau, **Jinke He**, Elena Congeduti, Rolf AN Starre, Aleksander Czechowski, Frans A Oliehoek.

*Neural Computing and Applications (NCAA)*, 2022.

Influence-Augmented Local Simulators: A Scalable Solution for Fast Deep RL in Large Networked Systems

Miguel Suau, **Jinke He**, Matthijs TJ Spaan, Frans A Oliehoek.

*International Conference on Machine Learning (ICML)*, 2022.

Robust Ensemble Adversarial Model-Based Reinforcement Learning

Daniele Foffano, **Jinke He** and Frans A. Oliehoek.

*Adaptive and Learning Agents Workshop (ALA) at AAMAS*, 2022.

Online Planning in POMDPs with Self-Improving Simulator

**Jinke He**, Miguel Suau, Hendrik Baier, Michael Kaisers, and Frans A. Oliehoek.

*International Joint Conferences on Artificial Intelligence (IJCAI)*, 2022.

Influence-Augmented Online Planning for Complex Environments

**Jinke He**, Miguel Suau, Frans Oliehoek.

*Conference on Neural Information Processing Systems (NeurIPS)*, 2020.

Multitask Soft Option Learning

Maximilian Igl, Andrew Gambardella, **Jinke He**, Nantas Nardelli, N. Siddharth, Wendelin Boehmer, Shimon Whiteson.

*Conference on Uncertainty in Artificial Intelligence (UAI)*, 2020.

Soft Option Transfer

**Jinke He**, Maximilian Igl, Matthew Smith, Wendelin Boehmer, Shimon Whiteson.

*Learning Transferable Skills Workshop at NeurIPS*, 2019.