

# HAO WANG

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## EDUCATION

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| <b>Nanyang Technological University</b><br><i>Ph.D. Mathematics advised by Associate Professor Xiaohui Bei</i> <ul style="list-style-type: none"><li>Dissertation: Online Matching with its Applications to Ridesharing</li></ul> | 2017.08-2022.01<br><i>Singapore</i>      |
| <b>Tsinghua University</b><br><i>B.E. Computer Science and Technology   GPA:90/100</i>                                                                                                                                            | 2014.07-2017.06<br><i>Beijing, China</i> |
| <b>Tsinghua University</b><br><i>B.S.(Double Major) Economics</i>                                                                                                                                                                 | 2013.08-2016.6<br><i>Beijing, China</i>  |
| <b>Tsinghua University</b><br><i>Electrical Engineering</i>                                                                                                                                                                       | 2012.07-2014.06<br><i>Beijing, China</i> |

## PUBLICATION

- **Wang H**, Yan Z, Bei X. A Non-asymptotic Analysis for Re-solving Heuristic in online matching[J]. Production and Operations Management, 2022.
- **Wang, H.**, Bei, X. (2022). Real-Time Driver-Request Assignment in Ridesourcing. Proceedings of the AAAI Conference on Artificial Intelligence, 36(4), 3840-3849.
- Tu C, Zeng X, **Wang H**, et al. A unified framework for community detection and network representation learning[J]. IEEE Transactions on Knowledge and Data Engineering, 2018, 31(6): 1051-1065.

## RESEARCH INTEREST

- Online Resource Allocation
- Mechanism Design

## RESEARCH & PROJECT EXPERIENCE

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| <b>Online Resource Allocation</b><br><i>Research Fellow advised by Assistant Professor Zhenzhen Yan</i>                                                                                                                                                        | 2022.06-present<br><i>Nanyang Technological University</i> |
| <b>Online Matching</b><br><i>Ph.D. advised by Associate Professor Xiaohui Bei</i> <ul style="list-style-type: none"><li>re-solving heuristic in online matching</li><li>online matching with delays</li></ul>                                                  | 2017.08-2022.01<br><i>Nanyang Technological University</i> |
| <b>Network Representation Learning</b><br><i>Research Assistant advised by Associate Professor Zhiyuan Liu</i> <ul style="list-style-type: none"><li>network representation learning by random walk and language model</li></ul>                               | 2015.04-2017.01<br><i>Tsinghua University</i>              |
| <b>Pseudo-marginal Inference Engine</b><br><i>Research Assistant advised by Assistant Professor Stefano Ermon</i>                                                                                                                                              | 2016.07-2016.08<br><i>Stanford University</i>              |
| <b>Large Scale Network Representation Learning</b><br><i>Research Intern with Wechat Group</i>                                                                                                                                                                 | 2016.03-2016.06<br><i>Tencent Inc.</i>                     |
| <b>Oil Detector by Gas Analasis</b><br><i>advised by Professor Chongqing Kang</i> <ul style="list-style-type: none"><li>develop an oil detector to classify different kind of oil</li><li>won second Prize in “Challenge Cup” in Tsinghua University</li></ul> | 2014.12-2015.03<br><i>Tsinghua University</i>              |

## AWARDS

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- AAAI Scholarship
- Outstanding graduate of Department of Computer Science and Technology
- Award of Academic Excellence (three times)
- First Prize in National University Students Physics Competition.
- Second Prize in “Challenge Cup” in Tsinghua University
- Pinyou Scholarship (top 5% student)
- Award of Science and Novelty
- First Prize in CPhO

## TECHNICAL SKILLS

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**Languages:** Mandarin Chinese (native), English

**Programming:** Python, C/C++, JAVA/Android