

# Hanzhi Wang



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## SUMMARY

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Hanzhi Wang is currently a **third-year Ph.D. student** at School of Information, Renmin University of China, advised by Professor Zhewei Wei. She received her B.E. degree in Computer Science and Technology from Renmin University of China in June 2019. Her research focuses on **graph analysis and learning algorithms**. She is particularly interested in efficient algorithms on *Personalized PageRank* and *Graph Neural Networks*.

## EDUCATION

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### Renmin University of China

School of Information, advised by **Prof. Zhewei Wei**

**Ph.D. Student**

Sep. 2019 - Present

### Renmin University of China

School of Information, Computer Science and Technology

**Bachelor of Engineering**

Sep. 2015 - Jun. 2019

## EXPERIENCE

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### Artificial Intelligence and Digital Economy Laboratory (Pazhou Lab)

AI Basic Theories and Algorithms Group, Guangdong, China

**Research Intern**

Apr. 2021 - Jul. 2021

## PUBLICATIONS

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### 1. Approximate Graph Propagation

**Hanzhi Wang**, Mingguo He, Zhewei Wei\*, Sibao Wang, Ye Yuan, Xiaoyong Du and Ji-Rong Wen  
*ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD 2021)*

### 2. ExactSim: benchmarking single-source SimRank algorithms with high-precision ground truths

**Hanzhi Wang**, Zhewei Wei\*, Yu Liu, Ye Yuan, Xiaoyong Du and Ji-Rong Wen  
*International Journal on Very Large Data Bases (VLDBJ 2021)*

### 3. Personalized PageRank to a Target Node, Revisited

**Hanzhi Wang**, Zhewei Wei\*, Junhao Gan, Sibao Wang and Zengfeng Huang  
*ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD 2020)*

### 4. Exact Single-Source SimRank Computation on Large Graphs

**Hanzhi Wang**, Zhewei Wei\*, Ye Yuan, Xiaoyong Du and Ji-Rong Wen  
*ACM SIGMOD International Conference on Management of Data (SIGMOD 2020)*

## MANUSCRIPTS

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### o Edge-based Local Push for Personalized PageRank

**Hanzhi Wang**, Zhewei Wei\*, Junhao Gan, Xiaoyong Du and Ji-Rong Wen  
*International Conference on Very Large Databases (VLDB 2021, under review)*

## HONORS & AWARDS

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- o National Scholarship, 2021.
- o The Outstanding Innovative Talents Cultivation Funded Programs of Renmin University of China, 2020.
- o China National Petroleum Corporation (CNPC) Scholarship, 2020.

## PATENTS

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- A Method for Collaborative Filtering Recommendation based on Single-Source SimRank  
Zhewei Wei, Xiaodong He, **Hanzhi Wang**, Xiaokui Xiao, Sibowang, Yu Liu, Xiaoyong Du  
*Chinese National Patent, 2021.6.16, ZL201910577524.X*

## INVITED TALKS

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- Efficient Computation of Random Walk and the Applications in Graph Representation Learning.  
*DataFun, Aug. 2021*
- A Near Optimal Algorithm for Single-Target Personalized PageRank.  
*The 9th National Social Media Processing Conference (SMP), Sept. 2020*

## TEACHING

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- **Teaching Assistant** for Data Structure and Algorithm, instructed by Prof. Zhewei Wei, **Fall 2019 - Spring 2020**
- **Teaching Assistant** for ACM-ICPC Algorithms Design, instructed by Prof. Zhewei Wei, **Spring 2019**