

# ZeBin Ren

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## Education

**Beijing Institute of Technology**, School of Computer Science and Technology *Sept.2019 - Present*  
Master of Science in Computer Science and Technology **GPA: 87.04/100**  
**Northeastern University**, School of Computer Science and Technology *Sept.2015 – June.2019*  
Bachelor of Science in Computer Science and Technology **GPA: 85.50/100**  
**LELTS: 7.5** (Reading: 9.0, Listening: 7.0, Writing: 7.0, Speaking: 6.0)

## Research Experience

**A Distributed Graph Computing Engine Based on Gemini** *June.2020 - Feb.2021*

*Research Assistant at Data Science Lab, Beijing Institute of Technology*

*The project aimed at improving the performance based on an open source implementation of Gemini, a computation-central distributed graph computation system.*

- Team leader of the project
- Proposing some improvements for the system
  - Adopting new graph cutting algorithm
  - Compressing the graph to improve memory efficiency and speed for storage-intensive algorithms
  - Using targeted send scheme instead of broadcast to reduce communication cost
- Designing and implementing a distributed kclique percolation algorithm

### Kclique Enumeration on Temporal Graph

Zebin Ren, Ronghua Li\*

\*Supervisor: Prof. Ronghua Li

*Working paper*

*This work proposed a new definition for kcliques on temporal clique and an algorithm for temporal kclique enumeration based on the definition.*

- Proposing a new definition for kclique on temporal clique
- Designing an algorithm for temporal kclique enumeration

### A Distributed Algorithm for Kclique Percolation

Zebin Ren, Ronghua Li, GuorenWang

- Pending Chinese Patent, Sept 2021
- Designing and implementing a distributed algorithm for kclique percolation

## Internship

### Graph Database Team, Bytedance

*Dec.2020 - June.2021*

*Designing and implementing an auto-testing system and some daily maintenance such as data bulk load, the back-end of the graph database's website and SDK*

- Designing and implementing an auto-testing system
- Adding features to the data bulk load system, and the back-end of the graph database's website
- Some daily maintenance such as the SDK

### System Group, Microsoft Research Asia

*Oct.2021 - now*

*Machine learning system and auto machine learning*

- Designing and implementing a part of an auto-machine learning system

Sorry that I can't provide the details since it is a work in progress.