Chaoji Zuo

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Google Scholar ⎋

EDUCATION	
Rutgers University - New Brunswick, Piscataway, NJ	
Ph.D. in Computer Sciences, GPA: 3.90/4.00	August 2020 - May 2025 (*Expected*)
Rutgers University - New Brunswick, Piscataway, NJ	
M.S. in Electrical and Computer Engineering, GPA: 3.83/4.00	May 2020
University of Electronic Science and Technology of China, Chengdu, China	
B.Eng in Software Engineering, GPA: 3.72/4.00	June 2019

RESEARCH INTERESTS

Similarity search on high dimensional vector data and textual data, multi-model data management, textual data curation, and vector database.

RESEARCH EXPERIENCE

Data Curation Lab @ Database Group, Rutgers

Advisor: Prof. Dong Deng — May 2020 - present

- Focusing on graph-based approximate nearest neighbor search on high dimensional vectors
- Working on hybrid search on structured and unstructured data
- Focusing on near-duplicate text alignment and sequence search on large-scale textual corpora

Alibaba DAMO Academy

Mentor: Wenchao Zhou — May 2023 - August 2023

- Designed an approximate neighbor search framework for attribute-constrained query
- Built a generic similarity search system to support distribution and dynamic scenarios

PEER-REVIEWED PUBLICATION

SeRF: Segment Graph for Range-Filtering Approximate Nearest Neighbor Search
Chaoji Zuo, Miao Qiao, Wenchao Zhou, Feifei Li, Dong Deng.
SIGMOD 2024

Towards Millions of Database Transmission Services in the Cloud
Hua Fan, Dachao Fu, Xu Wang, Jiachi Zhang, **Chaoji Zuo**, Zhengyi Wu, Miao Zhang, Kang Yuan, Xizi Ni, Guocheng Huo, Wenchao Zhou, Feifei Li, and Jingren Zhou.
VLDB 2024

ARKGraph: All-Range Approximate K-Nearest-Neighbor Graph
Chaoji Zuo, Dong Deng.
VLDB 2023

Spine: Scaling up Programming-by-Negative-Example for String Filtering and Transformation
Chaoji Zuo, Sepehr Assadi, Dong Deng.
SIGMOD 2022

TxtAlign: Efficient Near-Duplicate Text Alignment Search via Bottom-k Sketches for Plagiarism Detection
Zhizhi Wang, **Chaoji Zuo**, Dong Deng.
SIGMOD 2022

CellRep: Usage Representativeness Modeling and Correction Based on Multiple City-Scale Cellular Networks
Zhihan Fang, Guang Wang, Shuai Wang, **Chaoji Zuo**, Fan Zhang and Desheng Zhang
WWW 2020

<table>
<tr><td>HONORS AND AWARDS</td><td>Alibaba Cloud Oustanding Research Intern, Alibaba Cloud</td><td>2024</td></tr>
<tr><td></td><td>Travel Fellowship, VLDB</td><td>2023</td></tr>
<tr><td></td><td>Runner-Up of Student Programming Contest, SIGMOD</td><td>2022</td></tr>
<tr><td></td><td>Finalist of Student Programming Contest, SIGMOD</td><td>2021</td></tr>
<tr><td></td><td>Best Capstone Design in Research, Rutgers ECE Capstone Design</td><td>2019</td></tr>
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TEACHING EXPERIENCE & SERVICES

Rutgers University - New Brunswick

Teaching Assistant
CS437: Database Systems Implementation — 2023, 2021
CS336: Principal of Information and Data Management — 2022

International Conference on Management of Data (SIGMOD)

Programming Contest Organization Committee Member — 2024, 2023
Organized the programming contest, including the development of contest problems and the administration of the contest evaluation.