

RENCHI YANG

#13 Computing Drive, Singapore 117417 | (65)-98073082 | renchi@nus.edu.sg | <https://renchi.ac.cn>

EDUCATION

- Doctor of Philosophy in Computer Science, **Nanyang Technological University**, Jan 2021.
- Bachelor of Engineering, Software Engineering, **Beijing University of Posts and Telecommunications**, July 2015.

PROFESSIONAL EXPERIENCES

National University of Singapore

Research Fellow

Hamad Bin Khalifa University

Research Assistant

Nanyang Technological University

Research Assistant

Tencent, Inc.

Software Engineer

Baidu, Inc.

Software Engineer Intern

Singapore

May 2021 to Present

Doha, Qatar

Feb 2021 to May 2021

Singapore

Jun 2016 to Feb 2021

Shenzhen, China

Jul 2015 to Jun 2016

Beijing, China

Nov 2014 to Apr 2015

RESEARCH INTERESTS

- Data Management and Analytics
- Graph Mining and Learning
- Parallel and Distributed Computing

PUBLICATIONS

- [1] Tianyuan Jin, Yu Yang, **Renchi Yang**, Jieming Shi, Keke Huang, and Xiaokui Xiao. “Unconstrained Submodular Maximization with Modular Costs: Tight Approximation and Application to Profit Maximization”. In: *PVLDB* 14.10 (2021), pp. 1756–1768.
- [2] **Renchi Yang**, Jieming Shi, Xiaokui Xiao, Yin Yang, Juncheng Liu, and Sourav S. Bhowmick. “Scaling Attributed Network Embedding to Massive Graphs”. In: *PVLDB* 14.1 (2021), 37–49, **Best Research Paper Award**.
- [3] **Renchi Yang**, Jieming Shi, Yin Yang, Keke Huang, Shiqi Zhang, and Xiaokui Xiao. “Effective and Scalable Clustering on Massive Attributed Graphs”. In: *TheWebConf*. 2021, pp. 3675–3687.
- [4] Jieming Shi, Tianyuan Jin, **Renchi Yang**, Xiaokui Xiao, and Yin Yang. “Realtime Index-Free Single Source SimRank Processing on Web-Scale Graphs”. In: *PVLDB* 13.7 (2020), pp. 966–978.
- [5] **Renchi Yang**, Jieming Shi, Xiaokui Xiao, Yin Yang, and Sourav S. Bhowmick. “Homogeneous Network Embedding for Massive Graphs via Reweighted Personalized PageRank”. In: *PVLDB* 13.5 (2020), pp. 670–683.
- [6] Jieming Shi, **Renchi Yang**, Tianyuan Jin, Xiaokui Xiao, and Yin Yang. “Realtime Top-k Personalized PageRank over Large Graphs on GPUs”. In: *PVLDB* 13.1 (2019), pp. 15–28.
- [7] **Renchi Yang**, Xiaokui Xiao, Zhewei Wei, Sourav S. Bhowmick, Jun Zhao, and Rong-Hua Li. “Efficient Estimation of Heat Kernel PageRank for Local Clustering”. In: *SIGMOD*. 2019, pp. 1339–1356.
- [8] Sibow Wang, **Renchi Yang**, Runhui Wang, Xiaokui Xiao, Zhewei Wei, Wenqing Lin, Yin Yang, and Nan Tang. “Efficient Algorithms for Approximate Single-Source Personalized PageRank Queries”. In: *TODS* 44.4 (2019), 18:1–18:37.
- [9] Sibow Wang, **Renchi Yang**, Xiaokui Xiao, Zhewei Wei, and Yin Yang. “FORA: Simple and Effective Approximate Single-Source Personalized PageRank”. In: *SIGKDD*. 2017, pp. 505–514.

ACADEMIC SERVICES

- 2021 - External reviewer of ICDM 2021, WWW 2021, Journal reviewer of TKDE 2021
- 2020 - External reviewer of ICDE 2020, VLDB 2020
- 2019 - External reviewer of KDD 2019, IJCAI 2019, CIKM 2019

HONORS

- Best Research Paper Award in VLDB 2021
- 10th Prize of KDD Cup 2020 AutoGraph
- SIGMOD 2019 Travel Award

SKILLS

Programming C/C++, Python

Software GNU/Linux, \LaTeX , Microsoft Office, Matlab, Git, MySQL

Languages English: professional proficiency. Mandarin: native.