RENCHI YANG

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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   **Singapore**
Research Fellow   *May 2021 to Present*
Hamad Bin Khalifa University   **Doha, Qatar**
Research Assistant   *Feb 2021 to May 2021*
Nanyang Technological University   **Singapore**
Research Assistant   *Jun 2016 to Feb 2021*
Tencent, Inc.   **Shenzhen, China**
Software Engineer   *Jul 2015 to Jun 2016*
Baidu, Inc.   **Beijing, China**
Software Engineer Intern   *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] Sibo 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] Sibo 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

HORNORS

- 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.