

Keqian Li

CONTACT INFORMATION

Department of Computer Science
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EDUCATION

University of California, Santa Barbara, Santa Barbara, California, USA

Ph.D. , Computer Science, Sept. 2019

- Research Topic: “Concept level text mining and analysis”
- Committee: Xifeng Yan (Chair), William Y. Wang, Ambuj Singh

University of British Columbia, Vancouver, British Columbia, Canada

M.Sc., Computer Science, June 2016

Tsinghua University, Beijing, China

B.Eng., Computer Science Honor Class (Yao Class), June 2013

Tsinghua University, Beijing, China

B.A., Economics, June 2013

PROFESSIONAL EXPERIENCE

Yahoo Research New York, New York

Research Scientist

Nov. 2019 - Now

- Worked in core research problems in machine learning and large scale data processing

Facebook Inc. Menlo Park, California

Ph.D. Intern

May. 2019 - Sept. 2019

- Worked core newsfeed machine learning team that directly impacts the newsfeed experience for 2 billion Facebook users, which resulted in statistical significant ($> 10\%$) increase in user engagement related metrics

Fabu Inc. Hangzhou, China

Perception Engineer Intern

Sep. 2018 - Nov. 2018

- Led the development of the first usable online sensor fusion system, along with the team heads in the perception and vehicle engineering division.

Zenefits Inc. Vancouver, British Columbia, Canada

Full stack software engineer

May 2016 - Aug. 2016

- Developed various software solutions for Zenefits' new generation enterprise platform (Z2), including business work flow design and implementation, webpage design and development, real time monitoring, and performance optimization. Reported directly to site director.

Facebook Menlo Park, California, USA

Software Engineer Intern

Sept. 2015 - Dec. 2015

- Participated in various aspect of the development in Facebook's Personalized Advertisement Platform, working interface designers, content specialists, sales and business operation specialists to develop full stack solutions that spans across all different stages of web product development. Received exceptional performance rating with return offer.

Microsoft Research Redmond, Washington, USA

Research Intern

June 2015 - Sept. 2015

- Developed prototype systems for concepts learning and extraction from structured data, resulting in 1 patent and 1 top conference publication.

Google Mountain View, California, USA & Toronto, Ontario, Canada

Ph.D. Intern

May 2014 - Aug. 2014

- Developed very large scale machine learning solutions for personalized product recommendation by leveraging Google user's online activity and product knowledge base.

University of California, Santa Barbara, Santa Barbara, California, USA

Ph.D. Student Researcher

Sept. 2016 - present

- Co-founded and led the development of PoQaa, a startup project that deep literature mining and knowledge sharing platform for scientific publication.
- Participated in the development of FTS, a research platform showcasing state of the art algorithms for text mining.
- Providing technical supports on NSF, ARL funding related projects on data mining and big data analytics.

University of California, Santa Barbara, Santa Barbara, California, USA

Ph.D. Student Researcher

Sept. 2016 - present

- Co-founded and led the development of PoQaa, a startup project that enables deep literature mining and knowledge sharing platform for scientific publication.
- Participated in the development of FTS (Faceted Taxonomy Search), a research platform showcasing state of the art algorithms for text mining.
- Providing technical supports on NSF, ARL funding related projects on data mining and big data analytics.

TEACHING
EXPERIENCE

Teaching Assistant, CS 16: Problem Solving, UCSB, Spring 2019.

Teaching Assistant, CS 304: Introduction to Database, UBC, Spring 2014.

Head Teaching Assistant, CS 213: Introduction to Computer Systems, UBC, Fall 2013.

SELECTED
PUBLICATIONS

HierCon: Hierarchical Organization of Technical Documents Based on Concepts Nov. 2019
Keqian Li, Shiyang Li, Semih Yavuz, Hanwen Zha, Yu Su and Xifeng Yan (***Best Paper Runner-ups of ICDM 2019***)
2019 IEEE International Conference on Data Mining (**ICDM**), 2019

Mining Algorithm Roadmap in Scientific Publications Aug. 2018
Hanwen Zha, Wenhua Chen, **Keqian Li** and Xifeng Yan
25th ACM SIGKDD international conference on Knowledge discovery and data mining (**KDD**), 2018.

Concept Mining via Embedding Nov. 2018
Keqian Li, Hanwen Zha, Yu Su, Xifeng Yan.
2018 IEEE International Conference on Data Mining (**ICDM**), 2018

PoQaa: Text Mining and Knowledge Sharing for Scientific Publications Aug. 2018
Keqian Li, Ping Zhang, Honglei Liu, Hanwen Zha, Xifeng Yan.
24th ACM SIGKDD international conference on Knowledge discovery and data mining (**KDD**), 2018 (demo).

FTS: Faceted Taxonomy Construction and Search for Scientific Publications Aug. 2018
Hanwen Zha, Jiaming Shen, **Keqian Li**, Warren Greiff, Michelle Vanni, Jiawei Han and Xifeng Yan
24th ACM SIGKDD international conference on Knowledge discovery and data mining (**KDD**), 2018 (demo).

Unsupervised Neural Categorization for Scientific Publication May 2018
Keqian Li, Hanwen Zha, Yu Su, Xifeng Yan.
18th SIAM International Conference on Data Mining (**SDM**), 2018.

Discovering enterprise concepts using spreadsheet tables Aug. 2017
Keqian Li, Yeye He, Kris Ganjam.
23rd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (**KDD**), 2017.

On Social Event Organization Aug. 2014
Keqian Li, Wei Lu, Smriti Bhagat, Laks VS Lakshmanan, and Cong Yu.
20rd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (**KDD**), 2014.

Show Me the Money: Dynamic Revenue-Maximizing Recommendations Aug. 2014
Wei Lu, Shanshan Chen, **Keqian Li**, Laks Lakshmanan

Proceedings of the VLDB Endowment 7.14 (**VLDB**), 2014.

HONORS AND
AWARDS

University of California Regents Fellowship (Full Scholarship), 2016-2017

University of British Columbia CS Merit Scholar (Full Scholarship), 2013-2015

Tsinghua Academy Awards (Full Scholarship), 2009-2013