Jiongqian Liang

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EDUCATION

Aug 2013–May 2018 **The Ohio State University** Columbus, Ohio, USA
Ph.D. stduent of Computer Science and Engineering
Advisor: Professor Srinivasan Parthasarathy

Sep 2009–Jun 2013 **Beihang University** Beijing, China
Bachelor of Computer Science and Engineering
GPA: 3.77/4.0; 3rd among 190 students (top 2%)

Nov 2012–Mar 2013 **University of Tsukuba** Tsukuba, Ibaraki, Japan
Exchange student in College of Information Science
Advisor: Professor Hiroyuki Kitagawa

RESEARCH INTEREST

Deep Network Embedding, Outlier Detection, Graph Mining, Machine Learning

SKILLS

- Proficient in **Data Mining** and **Machine Learning** methodologies.
- Proficient in big data infrastructure technologies, such as **OpenMP**, **MPI**, **CUDA**, **Hadoop**, **Spark**, etc.
- Proficient in writing code using **C/C++**, **Python**, **Java**, **Go**, **Matlab** and **R** to handle practical problems, especially those involve massive data.
- Familiar with machine learning libraries such as TensorFlow, Theano, Scikit-Learn, etc.

WORK EXPERIENCE

June 2018–Present **Google** Mountain View, California
Machine Learning for Better Ads
Software Engineer

May 2017–Aug 2017 **Google** Mountain View, California
Ads Spam Team
Software Engineering Intern
- Develop a platform for understanding and explaining timeseries anomalies.

May 2016–Aug 2016 **Google** Kirkland, Washington
Ads Team
Software Engineering Intern
- Work on a machine learning project using TensorFlow and improve the precision and recall by 5%.

May 2015–Aug 2015 **Bell Labs** Dublin, Ireland
Data Analytics and Cloud Research Team
Research Scientist Intern (Nominated for UK&Ireland Recognition Award.)
- Work on semantic search in heterogeneous information networks to mine prioritized relationships between entities (paper is published in *WWW'16*).
- Manager: Alessandra Sala. Mentor: Deepak Ajwani, Patrick Nicolson.

May 2013–Jul 2013 **Adobe Systems Incorporated** Beijing, China
Digital Video and Suite Shared Technology Team
Software Development Intern
- Use JavaScript InfoVis Toolkit to visualize users' activity log of using Adobe products and analyze the corresponding usage patterns to support decision-making.

ACADEMIC EXPERIENCE

Aug 2013 – Present **Research Assistant**
Department of Computer Science and Engineering
The Ohio State University, Columbus, Ohio, USA

Nov 2012–Mar 2013 **Undergraduate Research Fellow**
Kitagawa Data Engineering Lab, College of Information Science
University of Tsukuba, Tsukuba, Ibaraki, Japan

Jun 2011–Jun 2012 **Research Intern**
State Key Lab of Software Development Environment, CSE Department
Beihang University, Beijing, China

PUBLICATIONS

J. Sun, B. Bandyopadhyay, A. Bashizade, **J. Liang**, P. Sadayappan, S. Parthasarathy. ATP: Directed Graph Embedding with Asymmetric Transitivity Preservation. In *Proceedings of the AAAI Conference on Artificial Intelligence* (AAAI'19).

J. Liang, S. Gurukar, S. Parthasarathy. MILE: A Multi-Level Framework for Scalable Graph Embedding. In *arXiv preprint arXiv:1802.09612 (paper under review)*, 2018.

J. Liang, P. Jacobs, S. Parthasarathy. Human-Guided Flood Mapping: From Experts to the Crowd. In *Proceedings of the Web Conference* (WWW'18).

J. Liang, P. Jacobs, J. Sun, S. Parthasarathy. Semi-supervised Embedding in Attributed Networks with Outliers. In *Proceedings of 2018 SIAM International Conference on Data Mining* (SDM'18).

J. Liang, D. Ajwani, P. Nicolson, A. Sala, S. Parthasarathy. Prioritized Relationship Analysis in Heterogeneous Information Networks. In *ACM Transactions on Knowledge Discovery from Data* (TKDD'2018).

J. Liang, S. Parthasarathy. Robust Contextual Outlier Detection: Where Context Meets Sparsity. In *Proceedings of the 25th International Conference on Information and Knowledge Management* (CIKM'16).

J. Liang, D. Ajwani, P. Nicolson, A. Sala, S. Parthasarathy. What Links Alice and Bob? Matching and Ranking Semantic Patterns in Heterogeneous Networks. In *Proceedings of the 25th International World Wide Web Conferences* (WWW'16)

J. Liang, D. Fuhry, D. Maung, A. Borstad, R. Crawfis, L. Gauthier, A. Nandi, S. Parthasarathy. Data Analytics Framework for A Game-based Rehabilitation System. In *Proceedings of the 6th International Conference on Digital Health* (DH'16).

Y. Ruan, D. Fuhry, **J. Liang**, Y. Wang, and S. Parthasarathy. Community Discovery: Simple and Scalable Approaches. In *User Community Discovery*, pp. 23-54. Springer, 2015.

HONORS AND AWARDS

2018 Graduate Research Award at Ohio State University
2016 SIGIR Student Travel Award
2016 Best of WWW 2016 Selection
2015 Nomination for Bell Labs UK&Ireland Recognition Award
2013 O'Donnell Fellowship in Ohio State University
2013 Excellent Graduate Award in Beihang University
2012 Japan Student Services Organization (JASSO) Scholarship
2011 First Class Prize in the China Undergraduate Math Contest in Modeling (Top 3%; First Author)
2011 First Class Prize in National Software Design and Development Contest, Beijing Regional
2010 National Scholarship (5/190; the top honor awarded by government)
2010 Second Class Prize in College Mathematics Competition, Beijing Regional
2009 Merit Student of Guangdong Province (1/3000)

PROFESSIONAL SERVICES

AAAI 2018, Program Committee Member
CIKM 2017, Program Committee Member
WWW 2017, Program Committee Member

ACM Transactions on Knowledge Discovery from Data (TKDD), Reviewer
Data Mining and Knowledge Discovery (DMKD), Reviewer
IEEE/ACM Transactions on Networking (ToN), Reviewer
IEEE Transactions on Systems, Man, and Cybernetics: Systems, Reviewer