

# Jiongqian Liang

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## EDUCATION

- Aug 2013–May 2018 **The Ohio State University** Columbus, Ohio, USA  
Ph.D. in 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

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## RESEARCH INTEREST

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

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## 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.

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## WORK EXPERIENCE

- June 2018–Present **Google Brain** Mountain View, California  
*Recommender Systems*  
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.

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## 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

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## 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.

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## 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 Second Class Prize in College Mathematics Competition, Beijing Regional
- 2009 Merit Student of Guangdong Province (1/3000)

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## 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