Jianpeng Xu[1]

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4719 Alex Dr.
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EDUCATION

Ph.d Degree, Computer Science and Engineering, Michigan State University (MSU)
Fall 2011 - Summer 2017 **Advisor**: Pang-Ning Tan
M.S Degree, Computer Science, Harbin Institute of Technology (HIT), China
Fall 2007 - Spring 2010
B.S Degree, Computer Science, Shandong University (SDU), China
Fall 2003 - Spring 2007

WORK EXPERIENCE

Data Scientist	WalmartLabs Sunnyvale, CA	November 2018-Present

Learning to Rank, Recommendation Systems, Personalization

Data Scientist	eBay. Inc San Jose, CA	August 2016-November 2018

Deals Subsidy, Information Retrieval, Anomaly Detection

Research Assistant	MSU East Lansing, MI	Fall 2013- Spring 2016

Geospatio-temporal Data Mining, Multi-task Learning, Personalized medical modeling

Intern Data Scientist	Samsung Research America San Jose, CA	Spring, Summer 2015

Recommendation system for Samsung Smart TV. Build TV Ads system, especially for the large-scale data streaming and database support. (Techniques including Hadoop, Spark, Pig, Java, Scala, Python, bash, etc.)

Intern Data Scientist	Samsung Research America San Jose, CA	Summer 2014

Analysis on user behavior and user demographics using smart TV watching history.

Teaching Assistant	MSU East Lansing, MI	Spring 2013

Teaching Assistant for the course Computational Techniques for Large-Scale Data Analysis (CSE491/891), covering techniques including Hadoop, Pig, Hive, Mahout, as well as AWS.

Intern Software Engineer	Narus Inc Sunnyvale, CA	Summers 2012

Develop methods to detect malicious endpoints using data mining techniques, including label propagation.

Research Assistant	MSU East Lansing, MI	Fall 2011-Fall 2012

Land cover and land use change detection using MODIS data.

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[1]CV udpated on December 8, 2019.

SELECTED PUBLICATIONS

- **Jianpeng Xu**, Jiayu Zhou, Pang-Ning Tan, Xi Liu, Lifeng Luo. Spatio-temporal Multi-task Learning via Tensor Decomposition. IEEE Transactions on Knowledge and Data Engineering (TKDE), 2019

- **Jianpeng Xu**, Xi Liu, Tyler Wilson, Pang-Ning Tan, Pouyan Hatami, Lifeng Luo. MUSCAT: Multi-Scale Spatio-Temporal Learning with Application to Climate Modeling, IJCAI 2018

- **Jianpeng Xu**. Multi-Task Learning and Its Application to Geospatio-Temporal Data. Ph.D Dissertation, Michigan State University, 2017

- **Jianpeng Xu**, Pang-Ning Tan, Jiayu Zhou, Lifeng Luo. Online Multi-task Learning Framework for Ensemble Forecasting. IEEE Transactions on Knowledge and Data Engineering (TKDE), 2017

- **Jianpeng Xu**, Jiayu Zhou, Pang-Ning Tan, Xi Liu, Lifeng Luo. WISDOM: Weighted Incremental Spatio-Temporal Multi-Task Learning via Tensor Decomposition. IEEE BigData 2016 (**Best Paper Award**)

- Kaixiang Lin, **Jianpeng Xu**, Shuiwang Ji, Jiayu Zhou. Multi-Task Feature Interaction Learning. KDD 2016

- **Jianpeng Xu**, Kaixiang Lin, Pang-Ning Tan and Jiayu Zhou. Synergies that Matter: Efficient Interaction Selection via Sparse Factorization Machine. SDM 2016

- **Jianpeng Xu**, Pang-Ning Tan, Lifeng Luo and Jiayu Zhou. GSpartan: a Geospatio-Temporal Multi-task Learning Framework for Multi-location Prediction. SDM 2016

- **Jianpeng Xu**, Jiayu Zhou and Pang-Ning Tan. Formula: FactORized MUlti-task LeArning for task discovery in personalized medical models. SDM 2015

- **Jianpeng Xu**, Pang-Ning Tan and Lifeng Luo. ORION: Online Regularized multI-task regressiON and its application to ensemble forecasting. ICDM 2014

- **Jianpeng Xu** and Shufan Ji. HDminer: Efficient Mining of High Dimensional Frequent Closed Patterns from Dense Data and Its Application. ICDM 2014 workshop on Scalable Data Analytics: Theory and Applications

- Lei Liu, Sabyasachi Saha, Ruben Torres, **Jianpeng Xu**, Pang-Ning Tan, Antonio Nucci, Marco Mellia, Detecting Malicious Clients in ISP Networks Using HTTP Connectivity Graph and Flow Information, ASONAM 2014

PATENT

- Sabyasachi Saha, Lei Liu, Ruben Torres, **Jianpeng Xu**, Antonio Nucci, Detecting Malicious Endpoints Using Network Connectivity and Flow Information, US8813236 B1, Aug 19, 2014

HONORS AND AWARDS

Best Paper Award from IEEE BigData 2016
Best Poster Award from Doctoral Forum, SDM 2016
Student Travel Award from SDM 2016, SDM 2015, ICDM 2014, IEEE BigData 2016
Student Travel Award, MSU Graduate School, 2014
Graduate Assistant Support from Michigan State University, Fall 2011- Spring 2016
Honorable mentioned in Mathematical Contest in Modeling (MCM), 2006

SERVICES

- **Program Committee Member** for KDD 2018, 2019, IJCAI 2015, IEEE BigData 2018, 2019, PAKDD 2019, BIBM 2015, 2016, MLRec(in conjunction with SDM) 2015, 2016, 2017, BigTraffic(in conjunction with SDM) 2018

- **Invited Journal Reviewer** for Neurocomputing, BMC Bioinformatics, TNNLS, Pattern Recognition, EURASIP

REFERENCESAREAVAILABLE UPON REQUEST