Jianpeng Xu[1]

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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 I — eBay. Inc, San Jose, CA — August 2016-Present
Optimization, Deals Subsidy, Sales Item Prediction

Research Assistant — MSU, East Lansing, MI — Fall 2013-Present
Geospatio-temporal Data Mining, Multi-task Learning/Personalized medical modeling. (Techniques include matrix factorization, regression, online learning, etc.)

Intern Data Scientist — Samsung Research America, San Jose, CA — Spring, Summer 2015
Design recommender system algorithms for Samsung Smart TV. Build TV Ads system, especially for the large-scale data streaming and database support. (Techniques include 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.

SELECTED PUBLICATIONS

- **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**)

[1] CV udpated on July 19, 2017.

- 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-Present
Honorable mentioned in Mathematical Contest in Modeling (MCM), 2006

SERVICES

- **PC Member** for BIBM 2015, 2016, IJCAI 2015, MLRec 2015, 2016, 2017(in conjunction with SDM)
- **Conference External Reviewer** for ICDM 2014, 2017, IJCAI 2016, AAAI 2016, SDM 2015, 2016, WSDM 2015, DSAA 2015, CIKM 2014, DSAA 2014
- **Invited Journal Reviewer** for Neurocomputing, BMC Bioinformatics, TNNLS, Pattern Recognition, EURASIP

MACHINE LEARNING SKILLS

Liner regression, Logistic regression, SVM, PCA, SVD, Matrix factorization, Tensor decomposition, Online learning, (stochastic) Gradient descent, Probabilistic modeling, Gaussian process, Clustering, etc.

PROGRAMMING SKILLS

Software Developments: C/C++, Java, C#, Python, Matlab, SQL
Web Developments: Perl, PHP, AJAX, Javascript, HTML, XML
Big Data Analysis: Hadoop, Hive, Pig, Mahout, Spark

REFERENCESAREAVAILABLE UPON REQUEST