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Short Biography	Dr. Peilin Zhao is currently a Senior Algorithm Expert at Artificial Intelligence Department, Ant Financial, China. His research interests include Large Scale Machine Learning and its ap- plications to Big Data Analytics, Computational Finance, Multimedia Search, Computational Biology, Cybersecurity, etc. He previously worked as a research scientist at A*STAR Singa- pore, and a postdoc at Rutgers University USA. He received his PHD degree from School of Computer Engineering, Nanyang Technological University, Singapore and his bachelor degree from Zhejiang University, China. In his research areas, he has published about 70 papers in top venues, such as JMLR, AIJ, ICML, NIPS, KDD, etc. He has been invited as a PC member or reviewer for many international conferences and journals in his area.	
Research Interests	Machine Learning: Online Learning, Stochastic Optimization, Deep Le Applications: Multimedia Search, Computational Finance, Cybersecur ology, Computer Vision, etc.	
Research Experience	Senior Algorithm Expert Artificial Intelligence Department, Ant Financial, China.	Jul 2016 - present
	Research Scientist Institute for Infocomm Research, A*STAR, Singapore.	Jul 2014 - Jun 2016
	Visiting Scholar Baidu Research, China.	Jan 2014 - Jun 2014
	Postdoc Department of Statistics, Rutgers University, USA. Advisor: Tong Zhang	Sep 2013 - Jun 2014
	Research Intern Institute of Deep Learning, Baidu Inc, China.	Jul 2013 - Sep 2013
	Research Assistant School of Computer Engineering, Nanyang Technological University, S Advisor: Steven C.H. Hoi	Sep 2012 - Jun 2013 Singapore.
Education	Nanyang Technological University, Singapore. Doctor of Philosophy (Ph.D.), Computer Science. Thesis Title: Kernel Based Online Learning. Advisor: Steven C.H. Ho	Aug 2008 – Sep 2013
	Zhejiang University , Hangzhou, China. Bachelor of Science (BS), Mathematics.	Sep 2004 – Jun 2008

Projects Distributed Algorithms based on Parameter Server

This project is to develop a series of distributed algorithms based on a Parameter Server. Specifically, we implemented two algorithms: one is a distributed Factorization Machine, and the other is a Hash Matrix Factorization model. Both of these two algorithm can support a dataset with over 10 billion examples of 10 billion features. Large scale CTR prediction based on tailored Deep Learning algorithm.

Risk Management, Insurance, Anti-Money Laundering

Ensemble based supervised risk management model to improve the True Positive Rate. Unsupervised anamoly detection system to reduce the number of Fals Positive rate. Machine Learning model and feature selection method for Car Insurance Score. Deep Learning Model for Anti-Money Laundering.

Disruptive Big Data Analytics Approaches and Data Management Strategy for Complex System Health Management

This project is in collaboration with Boeing, which is a leading aerospace company. In this project, our goal is to utilize stream data from sensors on the airplane engine, to estimate the remaining useful life of the engine. In practice, we tried deep learning to extract high-level features and build a model, which achieves the best performance compared with some conventional methods, such as Support Vector Regression.

An On-line Process Monitoring Scheme to Improve Accuracy of the Tube Boiler Inspection Process

This project is in collaboration with Sembcorp, which is a leading energy, water and marine group operating across five continents worldwide. In this project, our objective is to use stream data from sensors on boiler tubes to detect the thickness of the tubes, which is used to determine whether the tubes should be replaced with new ones. Since the speed of sensor data will be very high, we will adopt online learning to train and maintain the models, to improve the scalability of the learning system.

LIBOL - A Library for Online Learning Algorithms

LIBOL is an open-source machine learning library that implements a large family of classical and state-of-the-art online learning algorithms for solving large-scale machine learning tasks towards a variety of emerging big data mining applications.

OLPS - On-Line Portfolio Selection

OLPS is a research project that aims to study intelligent on-line portfolio selection strategies in computational finance by exploring a family of state-of-the-art machine learning techniques.

Honors and Awards The 1st Prize of Tmall Repeat Buyers Prediction Competition (1st Stage) from IJCAI, 2015.

Best Runner-Up Paper Award from Asian Conference on Machine Learning 2014.

IEEE International Conference on Data Mining Scholarships, 2012.

Machine Learning Summer School Scholarships, 2011.

The 27th International Conference on Machine Learning Scholarships, 2010.

The 2nd Prize of Best Student Paper Awards from PREMIA in Singapore, 2009.

Research Scholarships in Nanyang Technological University, 2008-2012

Excellent Graduate in Zhejiang University, 2008.

Excellent Undergraduate Scholarship and All-round Student in Zhejiang University, 2004-2007.

Computer Skills Python, MATLAB, C/C++

Professional Services	Reviewer/ PC Member		
	• Journals: JMLR, MLJ, TPAMI, ACM CSUR, TNNLS, TKDD, TIST, DAMI, Neurocom- puting, TASLP		
	 Conferences: NIPS 2010 2011 2015 2017, ICML 2011 2014, WWW 2012 2013, AAAI 2011 2012 2016 2015 2017, ACML 2014 2015, IJCAI 2015 2017, ICDM 2015, ALT 2015, KDD 2013, CVPR 2013, ACM MM 2013, CIKM 2012, WSDM 2010. 		
Citation Indices	h-index: 19, i10-index: 29, citations: 1644. (According to Google Scholar)		
Tutorials	ven C.H. Hoi, Peilin Zhao. Online Learning Methods for Big Data Analytics. IEEE Inter- ional Conference on Data Mining (ICDM 2014), Dec 14-17, 2014, Shenzhen, China.		
Publications	1. Peng Yang, Peilin Zhao , Xin Gao. Robust Online Multi-Task Learning with Correlative and Personalized Structures. IEEE Transactions on Knowledge and Data Engineering (TKDE), 2017. Accepted.		
	 Chenghao Liu, Tao Jin, Steven C.H. Hoi, Peilin Zhao, Jianling Sun. Collaborative Top- ic Regression for Online Recommender Systems: An Online and Bayesian Approach. Machine Learning (MLJ), 2017. Accepted 		
 Projection-Free Distributed Online Learning i ference on Machine Learning (ICML 2017) Accepted. Jun Zhou, Xiaolong Li, Peilin Zhao, Chaoch Cui, Jin Yu, Xu Chen, Yi Ding, Yuan Qi. Kun Learning Systems and Its Applications in Alii on Knowledge Discovery and Data Mining (K Accepted Yong Liu, Peilin Zhao, Xin Liu, Min Wu, L pendencies for Recommendation. The 26th Ir Intelligence(IJCAI 2017). Melbourne, Austra Shuji Hao, Peilin Zhao, Steven Hoi, Chunyan ing. The 26th International Joint Conference Melbourne, Australia, August 2017. Accepted Chenghao Liu, Teng Zhang, Peilin Zhao, Jun ization Machine. The 26th International Joint C 2017). Melbourne, Australia, August 2017. A Cen Chen, Peilin Zhao, Longfei Li, Jun Zh Connected Deep Learning Framework for Ind International World Wide Web Conference (W Jun Zhou, Qing Cui, Xiaolong Li, Peilin Zha Parameter Server based Multiple Additive Re 	 Wenpeng Zhang, Peilin Zhao, Steven C.H. Hoi, Wei Liu, Tong Zhang, Wenwu Zhu. Projection-Free Distributed Online Learning in Networks. The 34th International Con- ference on Machine Learning (ICML 2017). Sydney, Australia, August 6-11 2017. Accepted. 		
	4. Jun Zhou, Xiaolong Li, Peilin Zhao, Chaochao Chen, Longfei Li, Xinxing Yang, Qing Cui, Jin Yu, Xu Chen, Yi Ding, Yuan Qi. KunPeng: Parameter Server based Distributed Learning Systems and Its Applications in Alibaba and Ant. 23rd SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2017) August 2017, Halfiax, Canada. Accepted		
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	 Chenghao Liu, Teng Zhang, Peilin Zhao, Jun Zhou, Jianling Sun. Local Linear Factor- ization Machine. The 26th International Joint Conference on Artificial Intelligence(IJCAI 2017). Melbourne, Australia, August 2017. Accepted 		
	 Cen Chen, Peilin Zhao, Longfei Li, Jun Zhou, Xiaolong Li, Minghui Qiu. Locally Connected Deep Learning Framework for Industrial-scale Recommender Systems. 26th International World Wide Web Conference (WWW 2017). 3-7 April, 2017. 		
	 Jun Zhou, Qing Cui, Xiaolong Li, Peilin Zhao, Shenquan Qu, Jun Huang. PSMART: Parameter Server based Multiple Additive Regression Trees System. 26th International World Wide Web Conference (WWW 2017). 3-7 April, 2017. 		
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	 Jing Lu, Peilin Zhao, Steven C.H. Hoi. Online Passive Aggressive Active Learning. Machine Learning (MLJ). 		

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- Jialei Wang, Peilin Zhao, Steven C. H. Hoi. Soft Confidence-Weighted Learning. ACM Transactions on Intelligent Systems and Technology (TIST), 2016.
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