## Aonan Zhang

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Research Interests	Bayesian Nonparametric methods, Deep Learning		
Professional Experience	<b>Columbia University</b> New York, NY Research Assistant, Department of Electrical Eng Advisor: Prof. John Paisley GPA: 4.03/4.00	gineering	08/2014 – Present
	<b>Tsinghua University</b> Beijing, China Research Assistant, Department of Computer Sci Advisor: Prof. Jun Zhu	ience and Technol	07/2012 – 07/2014 ogy
Industrial Experience	<b>ByteDance Inc.</b> Bellevue, WA Research Scientist		10/2019 - now
	Google Inc. New York, NY 09/2018 – 12/2018 Student Research Intern, Advisor: Dr. Chong Wang, Dr. Quan Wang Project: Adaptive model selection for general sequence modelling problems		
	<b>Google China AI Center</b> Beijing, China Research Intern, Advisor: Dr. Chong Wang Project: Fully supervised speaker diarization.		06/2018 - 08/2018
	Microsoft Research Redmond, WA Research Intern, Deep Learning Technology Cent Advisor: Dr. Yelong Shen, Dr. Jianfeng Gao Project: Learning math-word problem through re	er einforcement learn	05/2017 - 08/2017 ing.
Education	B.S. in Computer Science and Technology, Tsing M.S. in Computer Science and Technology, Tsing Ph.D. in Electrical Engineering, Columbia Univer-	hua University ghua University rsity	07/2012 07/2014 10/2019
Publications	1. A. Zhang, J. Paisley. Random Function Priors for Correlation Modeling. Interna- tional Conference on Machine Learning (ICML), Long Beach, CA, USA, 2019.		
	<ol> <li>A. Zhang, Q. Wang, Z. Zhu, J. Paisley, and C. Wang. Fully Supervised Speaker Diarization, <i>IEEE International Conference on Acoustics, Speech and Signal Pro-</i> cessing (ICASSP), Brighton, UK, 2019.</li> </ol>		
	3. A. Zhang and J. Paisley. Deep Bayesian Non-parametric Tracking, International Conference on Machine Learning (ICML), Stockholm, Sweden, 2018.		
	<ol> <li>S. Gultekin, A. Zhang and J. Paisley. Asym ational Inference, <i>IEEE Global Communication</i> Dhabi, United Arab Emirates, 2018.</li> </ol>	ptotic Simulated ons Conference (C	Annealing for Vari- GLOBECOM), Abu

	5. A. Zhang and J. Paisley. Markov Latent Feature Models, International Conference on Machine Learning (ICML), New York, NY, 2016.
	6. A. Zhang and J. Paisley. Stochastic Variational Inference for HDP-HMM, Interna- tional Conference on Artificial Intelligence and Statistics (AISTATS), Cadiz, Spain, 2016.
	7. A. Zhang and J. Paisley. Markov Mixed Membership Models, International Con- ference on Machine Learning (ICML), Lille, France, 2015.
	8. A. Zhang, J. Zhu, and B. Zhang. Max-margin Infinite Hidden Markov Models, International Conference on Machine Learning (ICML), Beijing, China, 2014.
	<ol> <li>F. Xia, N. Chen, J. Zhu, A. Zhang, X. Jin. Max-margin Latent Feature Relational Models for Entity-Attribute Networks, <i>International Joint Conference on Neural</i> <i>Networks (IJCNN)</i>, Beijing, China, 2014.</li> </ol>
	<ol> <li>A. Zhang, J. Zhu, and B. Zhang. Sparse Relational Topic Models for Document Networks, European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML/PKDD), Prague, Czech Republic, 2013.</li> </ol>
	<ol> <li>A. Zhang, J. Zhu, and B. Zhang. Sparse Online Topic Models, International World Wide Web Conference (WWW), Rio de Janeiro, Brazil, 2013.</li> </ol>
Professional Service	<ul> <li>Conference Reviewer</li> <li>Neural Information Processing Systems (NIPS) 2015, 2016, 2018, 2019</li> <li>International Conference on Machine Learning (ICML) 2015, 2017, 2018, 2019</li> <li>International Conference on Artificial Intelligence and Statistics (AISTATS) 2017, 2018, 2019, 2020</li> <li>International Conference on Learning Representations (ICLR) 2019, 2020</li> <li>Conference on Uncertainty in Artificial Intelligence (UAI) 2018, 2019</li> <li>International Joint Conference on Artificial Intelligence (IJCAI) 2015, 2016</li> </ul>
	<b>Conference Local Team</b> International Conference on Machine Learning (ICML) 2014
	<b>Journal Reviewer</b> Journal of Machine Learning Research (JMLR) Transactions on Pattern Analysis and Machine Intelligence (TPAMI) Transactions on Signal Processing (TSP)
	<b>Teaching Assistant Experience at Columbia</b> EECS: Bayesian models for machine learning, Fall 2015, Fall 2016, Fall 2017, Fall 2018 COMS: Machine Learning for Data Science, Spring 2015 ELEN: Big Data Analytics, Fall 2014; Machine Learning, Spring 2016, Spring 2018
Selected Courses at Columbia	Foundations of graphical models (Prof. David Blei, STAT, A+) Advanced probabilistic machine learning (Prof. John Paisley, ELEN, A) Truth in data (Prof. David Blei, STAT, A) Advanced machine learning (Prof. Daniel Hsu, COMS, A) Probability Theory II (Prof. Peter Orbanz, STAT, A) Sparse Representation & High-Dimensional Geometry (Prof. John Wright, ELEN, A)
Programming Languages	Python, C/C++, Matlab