

# Mingyuan Zhou

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## Education

- **Duke University**, Durham, NC, May 2013  
Ph.D. in Electrical and Computer Engineering
- **Chinese Academy of Sciences**, Beijing, China, June 2008  
M.Sc. in Signal and Information Processing
- **Nanjing University**, Nanjing, China, June 2005  
B.Sc. in Acoustics, Department of Electronic Science and Engineering

## Employment

- **The University of Texas at Austin**, Austin, TX, July 2013 – Present  
Department of Information, Risk, and Operations Management, McCombs School of Business  
Department of Statistics and Data Science (core faculty with courtesy appointment)  
Department of Electrical and Computer Engineering (member of Graduate Studies Committee)  
★ Associate Professor, September 2019 – Present  
★ Assistant Professor, July 2013 – August 2019

## Working Papers

1. Huangjie Zheng, Xu Chen, Jiangchao Yao, Hongxia Yang, Chunyuan Li, Ya Zhang, Hao Zhang, Ivor W. Tsang, Jingren Zhou, and **Mingyuan Zhou**, “Contrastive attraction and contrastive repulsion for representation learning,” *arXiv preprint arXiv:2105.03746*, May 2021.
2. Dandan Guo, Ruiying Lu, Bo Chen, Zequn Zeng, and **Mingyuan Zhou**, “Matching visual features to hierarchical semantic topics for image paragraph captioning,” *arXiv preprint arXiv:2105.04143*, May 2021.
3. Cramer et al., “Evaluation of individual and ensemble probabilistic forecasts of COVID-19 mortality in the US,” *medRxiv*, 2021
4. Chunyuan Li, Xiujun Li, Lei Zhang, Baolin Peng, **Mingyuan Zhou**, and Jianfeng Gao, “Self-supervised pre-training with hard examples improves visual representations,” *arXiv:2012.13493*, Dec. 2020.
5. Huangjie Zheng and **Mingyuan Zhou**, “Exploiting chain rule and Bayes’ theorem to compare probability distributions,” *arXiv preprint arXiv:2012.14100*, Dec. 2020.
6. Mohammadreza Armandpour and **Mingyuan Zhou**, “Convex polytope trees,” *arXiv:2010.11266*, Oct. 2020.
7. Rahi Kalantari and **Mingyuan Zhou**, “Graph gamma process generalized linear dynamical systems,” *arXiv preprint arXiv:2007.12852*, July 2020.

8. Mingzhang Yin, Nhat Ho, Bowei Yan, Xiaoning Qian, and **Mingyuan Zhou**, “Probabilistic best subset selection via gradient-based optimization,” arXiv:2006.06448, June 2020.
9. Quan Zhang, Qiang Gao, Mingfeng Lin, and **Mingyuan Zhou**, “Weibull racing time-to-event modeling and analysis of online borrowers’ loan payoff and default,” arXiv Preprint, arXiv:1911.01827, Nov. 2019.
10. Ehsan Hajiramezanali, Siamak Zamani Dadaneh, Paul de Figueiredo, Sing-Hoi Sze, **Mingyuan Zhou**, and Xiaoning Qian, “Differential expression analysis of dynamical sequencing count data with a gamma Markov chain,” arXiv:1803.02527, March 2018.
11. **Mingyuan Zhou**, “Softplus regressions and convex polytopes,” arXiv:1608.06383, Aug. 2016.

#### Refereed Journal Publications

12. Chaojie Wang, Bo Chen, Sucheng Xiao, Zhengjue Wang, Hao Zhang, Penghui Wang, Ning Han, and **Mingyuan Zhou**, “Multimodal Weibull variational autoencoder for jointly modeling image-text data,” *IEEE Transactions on Cybernetics*, pp. 1–16, 2021.
13. Liangjian Wen, Haoli Bai, Lirong He, Yiji Zhou, **Mingyuan Zhou**, and Zenglin Xu, “Gradient estimation of information measures in deep learning,” *Knowledge-Based Systems*, p. 107046, 2021.
14. Dandan Guo, Bo Chen, Wenchao Chen, Chaojie Wang, Hongwei Liu, and **Mingyuan Zhou**, “Variational temporal deep generative model for radar HRRP target recognition,” *To appear in IEEE Trans. Signal Processing*, 2020.
15. Wenyuan Li, Zichen Wang, Yuguang Yue, Jiayun Li, William Speier, **Mingyuan Zhou**, and Corey Arnold, “Semi-supervised learning using adversarial training with good and bad samples,” *Machine Vision and Applications*, vol. 31, no. 6, pp. 1–11, 2020.
16. Hao Zhang, Bo Chen, Yulai Cong, Dandan Guo, Hongwei Liu, and **Mingyuan Zhou**, “Deep autoencoding topic model with scalable hybrid Bayesian inference,” *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 2020+.
17. Siamak Zamani Dadaneh, **Mingyuan Zhou**, and Xiaoning Qian, “Bayesian negative binomial regression for differential expression with confounding factors,” *Bioinformatics*, vol. 34, pp. 3349–3356, Oct. 2018.
18. Siamak Zamani Dadaneh, **Mingyuan Zhou**, and Xiaoning Qian, “Covariate-dependent negative binomial factor analysis of RNA sequencing data,” *Bioinformatics*, vol. 34, pp. i61–i69, July 2018.
19. Quan Zhang and **Mingyuan Zhou**, “Permuted and augmented stick-breaking Bayesian multinomial regression,” *Journal of Machine Learning Research*, vol. 18, pp. 1–33, Apr. 2018.
20. Fangzheng Xie, **Mingyuan Zhou**, and Yanxun Xu, “BayCount: A Bayesian decomposition method for inferring tumor heterogeneity using RNA-Seq counts,” *Annals of Applied Statistics*, vol. 12, no. 3, pp. 1605–1627, 2018.
21. **Mingyuan Zhou**, “Nonparametric Bayesian negative binomial factor analysis,” *Bayesian Analysis*, vol. 13, no. 4, pp. 1061–1089, 2018.
22. Siamak Zamani Dadaneh, Xiaoning Qian, and **Mingyuan Zhou**, “BNP-Seq: Bayesian nonparametric differential expression analysis of sequencing count data,” *Journal of the American Statistical Association (Applications and Case Studies)*, vol. 113, no. 521, pp. 81–94, 2018.
23. Yulai Cong, Bo Chen, and **Mingyuan Zhou**, “Fast simulation of hyperplane-truncated multivariate normal distributions,” *Bayesian Analysis*, vol. 12, pp. 1017–1037, 2017.
24. **Mingyuan Zhou**, Stefano Favaro, and Stephen G Walker, “Frequency of frequencies distributions and size dependent exchangeable random partitions,” *Journal of the American Statistical Association (Theory and Methods)*, vol. 112, no. 520, pp. 1623–1635, 2017.
25. **Mingyuan Zhou**, Yulai Cong, and Bo Chen, “Augmentable gamma belief networks,” *Journal of Machine Learning Research*, vol. 17, pp. 1–44, Sept. 2016.

26. **Mingyuan Zhou**, Oscar Hernan Madrid Padilla, and James G. Scott, “Priors for random count matrices derived from a family of negative binomial processes,” *Journal of the American Statistical Association (Theory and Methods)*, vol. 111, pp. 1144-1156, 2016.
27. Gungor Polatkan, **Mingyuan Zhou**, Lawrence Carin, David Blei, and Ingrid Daubechies, “A Bayesian nonparametric approach to image super-resolution,” *IEEE Trans. Pattern Analysis and Machine Intelligence*, vol. 37, pp. 346-358, Feb. 2015.
28. **Mingyuan Zhou** and Lawrence Carin, “Negative binomial process count and mixture modeling,” *IEEE Trans. Pattern Analysis and Machine Intelligence*, vol. 37, pp. 307-320, Feb. 2015.
29. D. Carlson, J. Vogelstein, Q. Wu, W. Lian, **M. Zhou**, C. R. Stoetzner, D. Kipke, D. Weber, D. Dunson and L. Carin, “Multichannel electrophysiological spike sorting via joint dictionary learning and mixture modeling,” *IEEE Trans. Biomedical Engineering*, vol. 61, pp. 41-54, Jan. 2014.
30. Zhengming Xing, **Mingyuan Zhou**, Alexey Castrodad, Guillermo Sapiro, and Lawrence Carin, “Dictionary learning for noisy and incomplete hyperspectral images,” *SIAM Journal on Imaging Sciences*, vol. 5, pp. 33-56, Jan. 2012.
31. **Mingyuan Zhou**, Haojun Chen, John Paisley, Lu Ren, Lingbo Li, Zhengming Xing, David Dunson, Guillermo Sapiro, and Lawrence Carin, “Nonparametric Bayesian dictionary learning for analysis of noisy and incomplete images,” *IEEE Trans. Image Processing*, vol. 21, pp. 130-144, Jan. 2012.
32. Chengshi Zheng, **Mingyuan Zhou**, and Xiaodong Li, “On the relationship of non-parametric methods for coherence function estimation,” *Signal Processing*, vol. 88, pp. 2863-2867, Nov. 2008.
33. **Mingyuan Zhou**, Jialu Chen, and Xiaodong Li, “A time/frequency-domain unified delayless partitioned block frequency-domain adaptive filter,” *IEEE Signal Processing Letters*, vol. 14, pp. 976-979, Dec. 2007.
34. **Mingyuan Zhou** and Xiaojun Qiu, “An error path delay compensated delayless subband adaptive filter architecture,” *Signal Processing*, vol. 87, pp. 2640-2648, Nov. 2007.

#### Refereed Conference Publications

35. Shujian Zhang, Xinjie Fan, Bo Chen, and **Mingyuan Zhou**, “Bayesian attention belief networks,” in *ICML 2021: International Conference on Machine Learning*, July 2021. (the first two authors contributed equally). (Acceptance Rate: **22%**)
36. Aleksandar Dimitriev and **Mingyuan Zhou**, “ARMS: Antithetic-REINFORCE-multi-sample gradient for binary variables,” in *ICML 2021: International Conference on Machine Learning*, July 2021. (Acceptance Rate: **22%**)
37. Zhibin Duan, Dongsheng Wang, Bo Chen, Chaojie Wang, Wenchao Chen, Yewen Li, Jie Ren, and **Mingyuan Zhou**, “Sawtooth factorial topic embeddings guided gamma belief network,” in *ICML 2021: International Conference on Machine Learning*, July 2021. (the first two authors contributed equally). (Acceptance Rate: **22%**)
38. Zhibin Duan, Hao Zhang, Chaojie Wang, Zhengjue Wang, Bo Chen, and **Mingyuan Zhou**, “EnsLM: Ensemble language model for data diversity by semantic clustering,” in *ACL-IJCNLP 2021: The Joint Conference of the 59th Annual Meeting of the Association for Computational Linguistics and the 11th International Joint Conference on Natural Language Processing*, Aug. 2021.
39. Xinjie Fan, Qifei Wang, Junjie Ke, Feng Yang, Boqing Gong, and **Mingyuan Zhou**, “Adversarially adaptive normalization for single domain generalization,” in *CVPR 2021: Conference on Computer Vision and Pattern Recognition*, June 2021. (Acceptance Rate: **23%**)
40. Mohammadreza Armandpour, Ali Sadeghian, Chunyuan Li, and **Mingyuan Zhou**, “Partition-guided gans,” in *CVPR 2021: Conference on Computer Vision and Pattern Recognition*, June 2021. (Acceptance Rate: **23%**)
41. Rahi Kalantari and **Mingyuan Zhou**, “Graph gamma process linear dynamical systems,” in *AISTATS 2021: International Conference on Artificial Intelligence and Statistics*, 2021. (Acceptance Rate: **30%**)

42. Ali Lotfi Rezaabad, Rahi Kalantari, Sriram Vishwanath, **Mingyuan Zhou**, and Jonathan Tamir, “Hyperbolic graph embedding with enhanced semi-implicit variational inference,” in *AISTATS 2021: International Conference on Artificial Intelligence and Statistics*, 2021. (Acceptance Rate: **30%**)
43. Xinjie Fan, Shujian Zhang, Korawat Tanwisuth, Xiaoning Qian, and **Mingyuan Zhou**, “Contextual dropout: An efficient sample-dependent dropout module,” in *ICLR 2021: International Conference on Learning Representations*, 2021. (Acceptance Rate: **29%**)
44. Yuguang Yue, Zhendong Wang, and **Mingyuan Zhou**, “Implicit distributional reinforcement learning,” in *NeurIPS 2020: Advances in Neural Information Processing Systems*, Dec. 2020. (the first two authors contributed equally) (Acceptance Rate: **20%**)
45. Xinjie Fan, Shujian Zhang, Bo Chen, and **Mingyuan Zhou**, “Bayesian attention modules,” in *NeurIPS 2020: Advances in Neural Information Processing Systems*, Dec. 2020. (the first two authors contributed equally) (Acceptance Rate: **20%**)
46. Wenchao Chen, Chaojie Wang, Bo Chen, Yicheng Liu, Hao Zhang, and **Mingyuan Zhou**, “Bidirectional convolutional Poisson gamma dynamical systems,” in *NeurIPS 2020: Advances in Neural Information Processing Systems*, Dec. 2020. (the first two authors contributed equally) (Acceptance Rate: **20%**)
47. Chaojie Wang, Hao Zhang, Bo Chen, Dongsheng Wang, Zhengjue Wang, and **Mingyuan Zhou**, “Deep relational topic modeling via graph Poisson gamma belief network,” in *NeurIPS 2020: Advances in Neural Information Processing Systems*, Dec. 2020. (the first two authors contributed equally) (Acceptance Rate: **20%**)
48. Zhengjue Wang, Zhibin Duan, Hao Zhang, Chaojie Wang, Long Tian, Bo Chen, and **Mingyuan Zhou**, “Friendly topic assistant for Transformer based abstractive summarization,” in *EMNLP 2020: Empirical Methods in Natural Language Processing*, Nov. 2020.
49. Zhendong Wang and **Mingyuan Zhou**, “Thompson sampling via local uncertainty,” *International Conference on Machine Learning (ICML 2020)*, July 2020. (Acceptance Rate: **22%**)
50. Dandan Guo, Bo Chen, Ruiying Lu, and **Mingyuan Zhou**, “Recurrent hierarchical topic-guided RNN for language generation,” *International Conference on Machine Learning (ICML 2020)*, July 2020. (Acceptance Rate: **22%**)
51. Arman Hasanzadeh, Ehsan Hajiramezanali, Shahin Boluki, **Mingyuan Zhou**, Nick Duffield, Krishna Narayanan, and Xiaoning Qian, “Bayesian graph neural networks with adaptive connection sampling,” *International Conference on Machine Learning (ICML 2020)*, July 2020. (Acceptance Rate: **22%**)
52. Siamak Zamani Dadaneh, Shahin Boluki, Mingzhang Yin, **Mingyuan Zhou**, and Xiaoning Qian, “Pairwise supervised hashing with Bernoulli variational auto-encoder and self-control gradient estimator,” *Conference on Uncertainty in Artificial Intelligence (UAI 2020)*, Toronto, Canada, August 2020. (Acceptance Rate: **28%**)
53. Wenchao Chen, Bo Chen, Yicheng Liu, Qianru Zhao, and **Mingyuan Zhou**, “Switching Poisson gamma dynamical systems”, *International Joint Conference on Artificial Intelligence – Pacific Rim International Conference on Artificial Intelligence (IJCAI-PRICAI 2020)*, Yokohama, Japan, July 2020.
54. Yuguang Yue, Yunhao Tang, Mingzhang Yin, and **Mingyuan Zhou**, “Discrete action on-policy learning with action-value critic,” *International Conference on Artificial Intelligence and Statistics (AISTATS 2020)*, Palermo, Sicily, Italy, June 2020.
55. He Zhao, Piyush Rai, Lan Du, Wray Buntine, Dinh Phung, and **Mingyuan Zhou**, “Variational autoencoders for sparse and overdispersed discrete data,” *International Conference on Artificial Intelligence and Statistics (AISTATS 2020)*, Palermo, Sicily, Italy, June 2020.
56. Shahin Boluki, Randy Ardywibowo, Siamak Zamani, **Mingyuan Zhou**, and Xiaoning Qian, “Learnable Bernoulli dropout for Bayesian deep learning,” *International Conference on Artificial Intelligence and Statistics (AISTATS 2020)*, Palermo, Sicily, Italy, June 2020.

57. Hao Zhang, Chaojie Wang, Zhengjue Wang, Zhibin Duan, **Mingyuan Zhou**, and Bo Chen, “Learning dynamic hierarchical topic graph with graph convolutional network for document classification,” *International Conference on Artificial Intelligence and Statistics (AISTATS 2020)*, Palermo, Sicily, Italy, June 2020.
58. Xinjie Fan, Yizhe Zhang, Zhendong Wang, and **Mingyuan Zhou**, “Adaptive correlated Monte Carlo for contextual categorical sequence generation,” *International Conference on Learning Representations (ICLR 2020)*, Addis Ababa, Ethiopia, Apr. 2020. (Acceptance Rate: **27%**)
59. Mingzhang Yin, George Tucker, **Mingyuan Zhou**, Sergey Levine, and Chelsea Finn, “Meta-learning without memorization,” *International Conference on Learning Representations (ICLR 2020)*, Addis Ababa, Ethiopia, Apr. 2020. (Acceptance Rate: **27%**)
60. Hao Zhang, Bo Chen, Long Tian, Zhengjue Wang, **Mingyuan Zhou**, “Variational hetero-encoder randomized GANs for joint image-text modeling,” *International Conference on Learning Representations (ICLR 2020)*, Addis Ababa, Ethiopia, Apr. 2020. (Acceptance Rate: **27%**)
61. Liangjian Wen, Yiji Zhou, Lirong He, **Mingyuan Zhou**, Zenglin Xu, “Mutual information gradient estimation for representation learning,” *International Conference on Learning Representations (ICLR 2020)*, Addis Ababa, Ethiopia, Apr. 2020. (Acceptance Rate: **27%**)
62. Aaron Schein, Scott Linderman, **Mingyuan Zhou**, David Blei, and Hanna Wallach, “Poisson-randomized gamma dynamical systems,” *Neural Information Processing Systems (NeurIPS 2019)*, Vancouver, Canada, Dec. 2019. (Acceptance Rate: **21%**)
63. Arman Hasanzadeh, Ehsan Hajiramezanali, Krishna Narayanan, Nick Duffield, **Mingyuan Zhou**, and Xiaoning Qian, “Semi-implicit graph variational auto-Encoders,” *Neural Information Processing Systems (NeurIPS 2019)*, Vancouver, Canada, Dec. 2019. (Acceptance Rate: **21%**)
64. Ehsan Hajiramezanali, Arman Hasanzadeh, Krishna Narayanan, Nick Duffield, **Mingyuan Zhou**, and Xiaoning Qian, “Variational graph recurrent neural networks,” *Neural Information Processing Systems (NeurIPS 2019)*, Vancouver, Canada, Dec. 2019. (Acceptance Rate: **21%**)
65. Mingzhang Yin\*, Yuguang Yue\*, and **Mingyuan Zhou**, “ARSM: Augment-REINFORCE-swap-merge estimator for gradient backpropagation through categorical variables,” *International Conference on Machine Learning (ICML 2019)*, Long Beach, CA, June 2019. (Acceptance Rate: **23%**) (\* Equal contribution by the first two authors)
66. Chaojie Wang, Bo Chen, Sucheng Xiao, and **Mingyuan Zhou**, “Convolutional Poisson gamma belief network,” *International Conference on Machine Learning (ICML 2019)*, Long Beach, CA, June 2019. (Acceptance Rate: **23%**)
67. Aaron Schein, Steven Wu, Alexandra Schofield, **Mingyuan Zhou**, and Hanna Wallach, “Locally private Bayesian inference for count modeling,” *International Conference on Machine Learning (ICML 2019)*, Long Beach, CA, June 2019. (Acceptance Rate: **23%**)
68. Mingzhang Yin and **Mingyuan Zhou**, “ARM: Augment-REINFORCE-merge gradient for stochastic binary networks,” *International Conference on Learning Representations (ICLR 2019)*, New Orleans, LA, May 2019. (Acceptance Rate: **33%**)
69. Rajat Panda, Ankit Pensia, Nikhil Mehta, **Mingyuan Zhou**, and Piyush Rai, “Deep Topic Models for Multi-label Learning,” *International Conference on Artificial Intelligence and Statistics (AISTATS 2019)*, Naha, Okinawa, Japan, April 2019. (Acceptance Rate: **32%**)
70. **Mingyuan Zhou**, “Parsimonious Bayesian deep networks,” *Neural Information Processing Systems (NeurIPS 2018)*, Montreal, Canada, Dec. 2018. (Acceptance Rate: **21%**)
71. Quan Zhang and **Mingyuan Zhou**, “Nonparametric Bayesian Lomax delegate racing for survival analysis with competing risks,” *Neural Information Processing Systems (NeurIPS 2018)*, Montreal, Canada, Dec. 2018. (Acceptance Rate: **21%**)
72. He Zhao, Lan Du, Wray Buntine, and **Mingyuan Zhou**, “Dirichlet belief networks as structured topic prior,” *Neural Information Processing Systems (NeurIPS 2018)*, Montreal, Canada, Dec. 2018. (Acceptance Rate: **21%**)

73. Dandan Guo, Bo Chen, Hao Zhang, and **Mingyuan Zhou**, “Deep Poisson gamma dynamical systems,” *Neural Information Processing Systems (NeurIPS 2018)*, Montreal, Canada, Dec. 2018. (Acceptance Rate: **21%**)
74. Ehsan Hajiramezanali, Siamak Zamani Dadaneh, Alireza Karbalayghareh, **Mingyuan Zhou**, and Xiaoning Qian, “Bayesian multi-domain learning for cancer subtype discovery from next-generation sequencing count data,” *Neural Information Processing Systems (NeurIPS 2018)*, Montreal, Canada, Dec. 2018. (Acceptance Rate: **21%**)
75. Bo Han, Jiangchao Yao, Gang Niu, **Mingyuan Zhou**, Ivor Tsang, Ya Zhang, and Masashi Sugiyama, “Masking: A new perspective of noisy supervision,” *Neural Information Processing Systems (NeurIPS 2018)*, Montreal, Canada, Dec. 2018. (Acceptance Rate: **21%**)
76. Ayan Acharya, Joydeep Ghosh, and **Mingyuan Zhou**, “A dual Markov chain topic model for dynamic environments,” *ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2018)*, London, UK, Aug. 2018. (Acceptance Rate: **10.9%**, Long Presentation, Research Track)
77. Mingzhang Yin and **Mingyuan Zhou**, “Semi-implicit variational inference,” *International Conference on Machine Learning (ICML 2018)*, Stockholm, Sweden, July 2018. (Long Contributed Talk, Acceptance Rate: **8.6%**)
78. He Zhao, Lan Du, Wray Buntine, and **Mingyuan Zhou**, “Inter and intra topic structure learning with word embeddings,” *International Conference on Machine Learning (ICML 2018)*, Stockholm, Sweden, July 2018. (Acceptance Rate: **25%**)
79. Hao Zhang, Bo Chen, Dandan Guo, and **Mingyuan Zhou**, “WHAI: Weibull hybrid autoencoding inference for deep topic modeling,” *International Conference on Learning Representations (ICLR 2018)*, Vancouver, Canada, May 2018. (Acceptance Rate: **34%**)
80. Rahi Kalantari, Joydeep Ghosh, and **Mingyuan Zhou**, “Nonparametric Bayesian sparse graph linear dynamical systems,” *Artificial Intelligence and Statistics (AISTATS 2018)*, Lanzarote, Canary Islands, Spain, April 2018. (Acceptance Rate: **33%**)
81. Chaojie Wang, Bo Chen, and **Mingyuan Zhou**, “Multimodal Poisson gamma belief network,” *AAAI Conference on Artificial Intelligence (AAAI 2018)*, New Orleans, LA, Feb. 2018. (Acceptance Rate: **25%**)
82. Yulai Cong, Bo Chen, Hongwei Liu, and **Mingyuan Zhou**, “Deep latent Dirichlet allocation with topic-layer-adaptive stochastic gradient Riemannian MCMC,” *International Conference on Machine Learning (ICML 2017)*, Sydney, Australia, Aug. 2017. (Acceptance Rate: **25%**)
83. Aaron Schein, **Mingyuan Zhou**, and Hanna Wallach, “Poisson–gamma dynamical systems,” *Neural Information Processing Systems (NIPS 2016)*, Barcelona, Spain, Dec. 2016. (Acceptance Rate: **2.0%**, Oral Presentation)
84. Aaron Schein, **Mingyuan Zhou**, David M. Blei, and Hanna Wallach, “Bayesian Poisson Tucker decomposition for learning the structure of international relations,” *International Conference on Machine Learning (ICML 2016)*, New York City, NY, June 2016. (Acceptance Rate: **24%**)
85. **Mingyuan Zhou**, Yulai Cong, and Bo Chen, “The Poisson gamma belief network,” *Neural Information Processing Systems (NIPS 2015)*, Montreal, CA, Dec. 2015. (Acceptance Rate: **22%**)
86. A. Acharya, D. Teffer, J. Henderson, M. Tyler, **M. Zhou**, and J. Ghosh, “Gamma process Poisson factorization for joint modeling of network and documents,” *European Conference on Machine Learning (ECML 2015)*, Porto, Portugal, Sept. 2015.
87. **Mingyuan Zhou**, “Nonparametric Bayesian matrix factorization for assortative networks,” *European Signal Processing Conference (EUSIPCO)*, Sept. 2015. (Invited special session paper)
88. **Mingyuan Zhou**, “Infinite edge partition models for overlapping community detection and link prediction,” *Journal of Machine Learning Research W&CP, AISTATS*, vol. 38, May. 2015. (Acceptance Rate: **27%**)

89. Ayan Acharya, Joydeep Ghosh, and **Mingyuan Zhou**, “Nonparametric Bayesian factor analysis for dynamic count matrices,” *Journal of Machine Learning Research W&CP, AISTATS*, vol. 38, May. 2015. (Acceptance Rate: **27%**)
90. **Mingyuan Zhou**, “Beta-negative binomial process and exchangeable random partitions for mixed-membership modeling,” *Neural Information Processing Systems (NIPS 2014)*, Montreal, CA, Dec. 2014. (Acceptance Rate: **25%**)
91. **Mingyuan Zhou** and Lawrence Carin, “Augment-and-conquer negative binomial processes,” *Neural Information Processing Systems (NIPS 2012)*, Lake Tahoe, NV, Dec. 2012. (Acceptance Rate: **4.9%**, Poster Spotlight Oral Presentation)
92. **Mingyuan Zhou**, Lingbo Li, David Dunson, and Lawrence Carin, “Lognormal and gamma mixed negative binomial regression,” *International Conference on Machine Learning (ICML 2012)*, Edinburgh, Scotland, June 2012. (Acceptance Rate: **27%**, Full Presentation)
93. **Mingyuan Zhou**, Lauren Hannah, David Dunson, and Lawrence Carin, “Beta-negative binomial process and Poisson factor analysis,” *Journal of Machine Learning Research W&CP, AISTATS*, vol. 22, pp. 1462-1471, Apr. 2012 (Acceptance Rate: **33%**)
94. Xu Chen, **Mingyuan Zhou** and Lawrence Carin, “The contextual focused topic model,” *ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2012)*, Beijing, China, Aug. 2012. (Acceptance Rate: **18%**, Full Paper, Research Track)
95. Lingbo Li, Xianxing Zhang, **Mingyuan Zhou**, and Lawrence Carin, “Nested dictionary learning for hierarchical organization of imagery and text,” *Conference on Uncertainty in Artificial Intelligence (UAI 2012)*, Catalina Island, CA, Aug. 2012. (Acceptance Rate: **31%**)
96. Lingbo Li, **Mingyuan Zhou**, Guillermo Sapiro, and Lawrence Carin, “On the integration of topic modeling and dictionary learning,” *International Conference on Machine Learning (ICML 2011)*, Bellevue, WA, June 2011. (Acceptance Rate: **26%**)
97. **Mingyuan Zhou**, Hongxia Yang, Guillermo Sapiro, David Dunson, and Lawrence Carin, “Dependent hierarchical beta process for image interpolation and denoising,” *Journal of Machine Learning Research W&CP, AISTATS*, vol. 15, pp. 883-891, Apr. 2011. (Acceptance Rate: **8.1%**, Oral Presentation)
98. **Mingyuan Zhou**, Haojun Chen, John Paisley, Lu Ren, Guillermo Sapiro, and Lawrence Carin, “Non-Parametric Bayesian dictionary learning for sparse image representations,” *Neural Information Processing Systems (NIPS 2009)*, Vancouver, B.C., Canada, Dec. 2009. (Acceptance Rate: **2.0%**, Oral Presentation)

#### Other Refereed Publications

99. Lingbo Li, Jorge Silva, **Mingyuan Zhou**, and Lawrence Carin, “Online Bayesian dictionary learning for large datasets,” *International Conference on Acoustics, Speech and Signal Processing (ICASSP2012)*, Kyoto, Japan, Mar. 2012.
100. **Mingyuan Zhou**, Hongxia Yang, Guillermo Sapiro, David Dunson, and Lawrence Carin, “Landmark-dependent hierarchical beta process for robust sparse factor analysis,” *ICML2011 Structured Sparsity Workshop*, Bellevue, WA, June 2011.
101. **Mingyuan Zhou**, Hongxia Yang, Guillermo Sapiro, David Dunson, and Lawrence Carin, “Covariate-dependent dictionary learning and sparse coding,” *International Conference on Acoustics, Speech and Signal Processing (ICASSP2011)*, Prague, Czech Republic, May 2011 [Invited paper and oral presentation].
102. Lingbo Li, **Mingyuan Zhou**, Eric Wang, and Lawrence Carin, “Joint dictionary learning and topic modeling for image clustering,” in *Proc. International Conference on Acoustics, Speech and Signal Processing (ICASSP2011)*, Prague, Czech Republic, May 2011.

103. **Mingyuan Zhou**, Chunping Wang, Minhua Chen, John Paisley, David Dunson, and Lawrence Carin, “Nonparametric Bayesian matrix completion,” in *Proc. IEEE Sensor Array and Multichannel Signal Processing Workshop (SAM2010)*, Israel, Oct. 2010.
104. John Paisley, **Mingyuan Zhou**, Guillermo Sapiro, and Lawrence Carin, “Nonparametric image interpolation and dictionary learning using spatially-dependent Dirichlet and beta process priors,” in *Proc. International Conference on Image Processing (ICIP2010)*, Hong Kong, Sept. 2010.
105. **Mingyuan Zhou**, John Paisley, and Lawrence Carin, “Nonparametric learning of dictionaries for sparse representation of sensor signals,” in *Proc. 3rd IEEE Workshop on Computational Advances in Multi-Sensor Adaptive Processing (CAMSAP2009)*, Aruba, Dec. 2009.
106. **Mingyuan Zhou** and Xiaodong Li, “A variable step-size for frequency-domain acoustic echo cancellation,” in *Proc. 2007 IEEE Workshop on Applications of Signal Processing to Audio and Acoustics (WASPAA’07)*, New Paltz, NY, Oct. 2007, pp. 303-306.
107. Chengshi Zheng, **Mingyuan Zhou**, and Xiaodong Li, “A modified *A Priori* SNR estimator based on the united speech presence probabilities (in Chinese),” *Journal of Electronics & Information Technology*, 2008.
108. **Mingyuan Zhou** and Xiaodong Li, “A magnitude-squared coherence based acoustic echo suppression algorithm (in Chinese),” in *Proc. 2007 Chinese Audio Engineering Society Conference*, Changsha, China, Oct. 2007.
109. **Mingyuan Zhou** and Xiaodong Li, “Acoustic echo suppression for Bluetooth earphone (in Chinese),” Technical Report, 2007.
110. **Mingyuan Zhou** and Xiaodong Li, “Step-size control for the multidelay block frequency-domain adaptive filter algorithm (in Chinese),” in *Proc. 2007 Chinese Young Researchers’ Conference on Acoustics (CYCA’07)*, Wuhan, China, Sept. 2007.
111. **Mingyuan Zhou** and Xiaodong Li, “*A Priori* SNR estimation based on the density distribution of *A Posterior* SNR (in Chinese),” in *Proc. 2006 National Conference on Acoustics*, Xiamen, China, Oct. 2006.
112. **Mingyuan Zhou** and Xiaojun Qiu, “The construction of analysis filters in delayless subband adaptive filter (in Chinese),” in *Proc. 2005 Chinese Young Researchers’ Conference on Acoustics (CYCA’05)*, Hangzhou, China, Apr. 2005. (**Best Paper Award**)

## Teaching

Spring 2020, Advanced Data Mining and Web Analytics, graduate-level course

Fall 2019, Bayesian Deep Learning, graduate-level course

Fall 2019, STA371G Statistics and Modeling, two sections

Fall 2018, STA371G Statistics and Modeling, two sections

Spring 2018, STA380 Bayesian Methods for Machine Learning, graduate-level course

Fall 2017, STA371G Statistics and Modeling, two sections

Spring 2017, STA371G Statistics and Modeling, two sections

Spring 2016, STA371G Statistics and Modeling, three sections

Spring 2015, STA371G Statistics and Modeling, three sections

Spring 2014, STA371G Statistics and Modeling, two sections

Duke-Tsinghua Machine Learning Summer School: Deep Learning for Big Data, Kunshan, China, Aug. 2016.

Machine Learning Summer School, Austin, TX, Jan. 2015.



## Honors and Awards

- Outstanding Area Chair for ICLR 2021, May 2021
- McCombs Research Excellence Grant, November 2018
- CBA Foundations Research Excellence Award for Assistant Professors, April 2018
- NSF@ISBA junior travel support, ISBA World Meeting 2016
- Best Student Poster Award in NIPS 2015 Workshop: Networks in the Social and Information Sciences
- NIPS travel award, 2012, 2009.
- ECE Ph.D. Student Fellowship, Duke University, 2008.
- Excellent Student Award in the 2006-2007 Academic Year, Chinese Academy of Sciences, 2007.
- Best Undergraduate Thesis Award 2nd Prize, Education Department of Jiangsu Province, 2005.
- Best Paper Award for the 2005 Chinese Young Researchers' Conference on Acoustics, Acoustical Society of China, 2005.
- National Undergraduate Electronic Design Contest – 2004 Embedded System Design Invitational Contest (Intel Cup) 3rd Prize, Higher Education Department of Ministry of Education and Personnel Department of Ministry of Information Industry, 2004.
- Excellent Undergraduate Student Award, Nanjing University, 2004.
- Excellent Student in the 2002-2003 Academic Year, Nanjing University, 2003.
- Robert Mundell Scholarship (highest award), Nanjing University, 2004.
- Renmin Scholarship, 1st Prize, Nanjing University, 2003.
- Renmin Scholarship, 2nd Prize, Nanjing University, 2002.

## External Funding Support

NSF grant #1952193 is funded by the Smart and Connected Communities (S&CC) Program

- Title: SCC-PG: ECET: Empowering Community-centric Electrified Transportation
- PI: Hao Zhu, Co-PIs: Varun Rai, Mingyuan Zhou, Junfeng Jiao, and Andrew Waxman
- The team receives \$150,000 for one year (07/1/2020 to 06/30/2021)

NSF grant #1812699 is funded by the Information Integration and Informatics (III) Program

- Title: III: Small: Collaborative Research: Combinatorial Collaborative Clustering for Simultaneous Patient Stratification and Biomarker Identification
- PI: Mingyuan Zhou, Co-PI: Xiaoning Qian
- The PI receives \$249,999 for three years (08/15/2018 to 07/31/2021)

ByteDance Gift Fund, April 2020

NVIDIA GPU Grant (donation of a Titan XP GPU), 2018

## Professional Activities

### Journal Editorial Board:

- Journal of Machine Learning Research (JMLR), Action Editor, 2021–Present

### Conference (Senior) Area Chair:

- NeurIPS 2017 – 2021 (Area Chair),
- AAAI 2020 & 2021 (Area Chair, a.k.a. senior meta reviewer), AAAI 2019 (Senior Program Committee Member)
- ICLR 2019, 2021, 2022 (Area Chair),
- ICML 2021 (Area Chair)

### Reviewer/Program Committee Member:

- IIT-Kanpur, tenure promotion external reviewer, 2019
- ICLR 2018

- NeurIPS 2016, 2015, 2014, 2013, 2012
- ICML 2018 (Outstanding Reviewer), 2017, 2016, 2015, 2014, 2013, 2012
- AISTATS 2018, 2017, 2016, 2015, 2014
- IJCAI 2016, 2015 (Machine Learning Track)
- Journal of the American Statistical Association
- Journal of Machine Learning Research
- Annals of Applied Statistics
- Bayesian Analysis
- Machine Learning
- IEEE Transactions on Pattern Analysis and Machine Intelligence
- IEEE Transactions on Signal Processing
- IEEE Transactions on Image Processing
- IEEE Transactions on Knowledge and Data Engineering
- Journal of Selected Topics in Signal Processing
- SIAM Journal on Imaging Sciences
- Production and Operations Management
- IEEE Transactions on Circuits and Systems for Video Technology
- IEEE Geoscience and Remote Sensing Letters
- IEEE Signal Processing Letters
- Journal of Visual Communication and Image Representation
- Sankhya A, the Indian Journal of Statistics

**Award Committee and Professional Organization:**

- Member of the ICLR 2021 Outstanding Paper Award Committee
- ISBA Section on Bayesian Nonparametrics, Treasurer (2018-2019)
- Member of the 2017 ISBA Mitchell Prize Committee

**Services at UT:**

- Course design committee for “Predictive Analytics,” a core course for the Business Analytics (BAX) major, member, 2020-2021
- Third-year review committee for Prof. Jared Murray, member, October 2020
- The School of Undergraduate Studies Independent Inquiry Flag Committee, member, 2020-2023
- McCombs Analytic Task force, member, 2020
- SDS PhD in Statistics Curriculum/Oversight Committee, member, Academic Year 2020-2021
- IROM Business Analytics (one open-rank, one assistant professor position) faculty search committee, member, 2019-2020
- IROM Statistics (Casual Inference) faculty search committee, member, 2019-2020
- SDS (three open-rank positions) faculty search committee, member, 2019-2020
- IROM statistics-track Ph.D. coordinator, since October 2017
- 2017 Spring Semester Statistics Seminar, Organizer
- Judge for IROM 2016 doctoral seminar competition, October 2016
- 2016 Fall Semester Statistics Seminar, Organizer
- 2014 Spring Semester Statistics Seminar, Organizer

**Ph.D. Committees Chaired (graduated):**

- Xinjie Fan, PhD student in Department of Statistics and Data Sciences, graduated in 2021, Software Engineer at Nuro
- Yuguang Yue, PhD student in Department of Statistics and Data Sciences, graduated in 2021, Machine Learning Engineer at Twitter
- Quan Zhang, IROM PhD student, graduated in 2020, Assistant Professor at Broad College of Business, Michigan State University (started in Fall 2020).
- Mingzhang Yin, PhD student in Department of Statistics and Data Sciences, graduated in 2020, Postdoc in Columbia University (started in Summer 2020).
- Maurice Diesendruck (co-chaired with Dr. Sinead Williamson), PhD student in Department of Statistics and Data Sciences, graduated in 2019, Data Scientist at Ojo Labs
- Carlos Pagani Zanini (co-chaired with Dr. Peter Müller), PhD student in Department of Statistics and Data Sciences, graduated in 2019, Professor Adjunto at Federal University of Rio de Janeiro, Brazil

**Ph.D. Committees Chaired (in progress):**

- Aleksandar Dimitriev, IROM PhD student, in progress
- Xizewen Han, PhD student in Department of Statistics and Data Sciences, in progress
- Yilin He, IROM PhD student, in progress
- Rahi Kalantari, PhD student in Department of Electrical and Computer Engineering, in progress
- Zhendong Wang, PhD student in Department of Statistics and Data Sciences, in progress
- Haorang Zhang (co-chaired with Dr. Wesley Tansey at Memorial Sloan Kettering Cancer Center), PhD student in Department of Computer Science, in progress
- Shujian Zhang, PhD student in Department of Statistics and Data Sciences, in progress
- Huangjie Zheng, PhD student in Department of Statistics and Data Sciences, in progress

**Ph.D. Committee Member:**

- In McCombs:
  - \* Xiaofan Li, IROM PhD student, graduated in 2020, Assistant Professor at National University of Singapore
  - \* Xinyin Hao, PhD student in Department of Marketing, graduated in 2019, Assistant Professor at University of Arizona
  - \* Lan Liang, PhD student in Department of Marketing, graduated in 2017, Assistant Professor at University of Colorado Denver
- In SDS and CS:
  - \* Yanxin Li, PhD student in Department of Statistics and Data Sciences, in progress
  - \* Mauricio Tec, PhD student in Department of Statistics and Data Sciences, in progress
  - \* Giorgio Paulon, PhD student in Department of Statistics and Data Sciences, in progress
  - \* Evan Ott, PhD student in Department of Statistics and Data Sciences, in progress
  - \* Li (Kelly) Kang, PhD student in Department of Statistics and Data Sciences, graduated in 2020
  - \* Mengjie Wang, PhD student in Department of Statistics and Data Sciences, in progress
  - \* Novin Ghaffari, PhD student in Department of Statistics and Data Sciences, graduated in 2019
  - \* Guy W. Cole, PhD student in Department of Statistics and Data Sciences, graduated in 2019
  - \* Oscar Hernan Madrid Padilla, PhD in Department of Statistics and Data Sciences, graduated in 2017, Postdoc in UC-Berkeley, now Assistant Professor at UCLA

- \* Dilin Wang, PhD student in Department of Computer Science, graduated in 2020, Research Scientist at Facebook
- Outside UT:
  - \* Aaron Schein, PhD student at University of Massachusetts Amherst, graduated in 2019, Postdoc at Columbia University
  - \* Siamak Zamani Dadaneh, PhD student at Texas A&M University, graduated in 2019, Data Scientist at Apple

#### **Invited/Contributed Talks:**

- “Exploiting Chain Rule and Bayes’ Theorem to Compare Probability Distributions,” invited talk in “New Methods for Bayesian Modeling and Computation,” Member Invited Session at ISBA 2021 World Meeting, June 2021 (remote conference).
- “Comparing Probability Distributions with Conditional Transport,” invited talk at VinAI Research Seminar Series, Hanoi, Vietnam, April 2021 (remote talk).
- “ACT: Asymptotic Conditional Transport,” invited talk at the 2020 Arkansas Spring Lectures Series, University of Arkansas, Nov. 2020 (remote conference).
- “Implicit distributional reinforcement learning,” invited talk at 2020 International Workshop on Signal and Information Intelligent Learning and Processing, Xidian University, Aug. 2020 (remote conference).
- “Augment-REINFORCE-swap-merge estimator for gradient backpropagation through discrete layers,” invited talk at Texas A&M Conference on Advances in Data Science: Theory, Methods and Computation, College Station, TX, Sept. 2019.
- “Bayesian deep learning that goes beyond reparameterizable latent variables with explicit density functions,” invited talk at Leaders & Innovators Seminar Series, Department of Electrical and Computer Engineering, Texas A&M University, hosted by Prof. Xiaoning Qian, College Station, TX, Mar. 2019.
- “AI & The Law: What Does or Does Not Compute (Technology: An AI Primer),” invited talk at November 2018 Meeting of The Honorable Lee Yeakel Intellectual Property American Inn of Court, The Headliners Club, Austin, TX, Nov. 2018.
- “ARM: Augment-REINFORCE-merge gradient for discrete latent variable models,” invited talk at Institut de Recherche en Informatique de Toulouse, hosted by Prof. Cédric Févotte, Toulouse, France, July 2018.
- “Variational Bayesian methods beyond parametric and continuous assumptions,” invited talk in the Workshop on Bayesian Nonparametrics for Signal and Image Processing, Organized by Pierre Chainais, Nicolas Dobigeon, Audrey Giremus, and François Caron, Bordeaux, France, July 2018.
- “Semi-implicit variational inference,” invited talk at The 2018 ICSA Applied Statistics Symposium, New Brunswick, New Jersey, June 2018.
- “Semi-implicit variational inference,” invited talk at the Department of Biostatistics, School of Public Health, University of Michigan, hosted by Prof. Jian Kang, Ann Arbor, MI, Mar. 2018.
- “Semi-implicit variational inference,” IROM Department Brown-Bag Seminar, University of Texas at Austin, Austin, TX, Feb. 2018.
- “Some recent advances in Bayesian deep learning,” invited talk at the Marketing Department Research Seminar Series, University of Texas at Austin, Austin, TX, Nov. 2017.
- “Permuted and augmented stick-breaking multinomial regression,” invited talk at the 2017 INFORMS Marketing Science Conference, University of Southern California, Los Angeles, CA, June 2017.
- “Infinite convolutional of expert logistic regression,” invited talk at ICSA 2016, ISBA invited session on “Theory and Applications of Bayesian Nonparametrics,” Shanghai, Dec. 2016.

- “Permuted and augmented stick-breaking multinomial regression,” invited talk in Latent Variables Conference 2016, session “Objective Bayes Analysis in Latent Variables Models,” University of South Carolina, Columbia, SC, Oct. 2016.
- Invited instructor at “Duke-Tsinghua Machine Learning Summer School: Deep Learning for Big Data,” Kunshan, China, Aug. 2016.
- “Gamma belief networks (deep latent Dirichlet allocation),” invited talk at International Society for Bayesian Analysis (ISBA) 2016 World Meeting, Sardinia, Italy, June 2016.
- “Gamma belief networks,” School of Electronic Engineering, Xidian University, hosted by Prof. Bo Chen, Xi’an, China, Dec. 2015.
- “Gamma belief networks,” Department of Computer Science and Technology, Tsinghua University, hosted by Professor Jun Zhu, Beijing, China, Dec. 2015.
- “Gamma belief networks,” Institute of Acoustics, Chinese Academy of Sciences, hosted by Professors Xiaodong Li and Chengshi Zheng, Beijing, China, Dec. 2015.
- “The Poisson gamma belief network,” invited talk at the 9th International Conference on Computational and Financial Econometrics (CFE 2015), University of London, UK, Dec. 2015.
- “Infinite vocabulary naive Bayes classifiers,” invited talk at Asilomar Conference on Signals, Systems, and Computers, Pacific Grove, CA, Nov. 2015.
- “The Poisson gamma belief network,” invited talk at The Collegio Carlo Alberto, Torino, Italy, Sept. 2015.
- “Nonparametric Bayesian matrix factorization for assortative networks,” invited talk in 23rd European Signal Processing Conference, Nice, France, Sept. 2015.
- “Priors for random count matrices with random or fixed row sums,” invited talk at the 10th Conference on Bayesian Nonparametrics, Raleigh, NC, June 2015.
- “Priors for random count matrices derived from a family of negative binomial processes,” invited talk at the Conference of Texas Statisticians (COTS), Austin, TX, Apr. 2015.
- “Parametric Bayesian models,” Machine Learning Summer School, Austin, TX, Jan. 2015.
- “Priors for random count matrices derived from a family of negative binomial processes,” invited talk in ERCIM, Pisa, Italy, Dec. 2014.
- “Count-mixture modeling and exchangeable random partitions,” Random Structures Seminar, Department of Mathematics, The University of Texas at Austin, Nov. 2013.
- “Nonparametric Bayesian dictionary learning and count & mixture modeling,” IBM T. J. Watson Research Center, Yorktown Heights, NY, Dec. 2012.
- “Augment-and-conquer negative binomial processes,” NIPS 2012, Lake Tahoe, NV, Dec. 2012.
- “Nonparametric Bayesian count and mixture modeling,” University of Southern California, hosted by Prof. Fei Sha, Los Angeles, CA, Oct. 2012.
- “Nonparametric Bayesian latent variable models,” MERL - Mitsubishi Electric Research Laboratories, hosted by Dr. Dehong Liu, Cambridge, MA, July 2012.
- “Lognormal and gamma mixed negative binomial regression,” ICML 2012, Edinburgh, Scotland, June 2012.
- “Efficient Bayesian inference for the negative binomial distribution,” Duke ECE Graduate Research Workshop, Jan. 2012.
- “On the integration of topic modeling and dictionary learning,” 8th Workshop on Bayesian Nonparametrics, June 2011, Veracruz, Mexico.
- “Covariate-dependent dictionary learning and sparse coding,” ICASSP 2011, Prague, Czech Republic, May 2011.
- “Dependent hierarchical beta process for image interpolation and denoising,” SampTA 2011, Singapore, May 2011.

- “Non-parametric Bayesian dictionary learning with landmark-dependent hierarchical beta Process,” The Learning Workshop, Ft. Lauderdale, FL, Apr. 2011.
- “Dependent hierarchical beta process for image interpolation and denoising,” AISTATS 2011, Ft. Lauderdale, FL, Apr. 2011.
- “Bayesian dictionary learning,” Duke DISP Computational Imaging Seminar Series, Mar. 2011
- “Non-parametric Bayesian dictionary learning for sparse image representations,” NIPS 2009, Dec. 2009, Vancouver, B.C., Canada.
- “Non-parametric Bayesian dictionary learning for sparse image representation and user rating matrix completion,” University of California, Los Angeles, hosted by Prof. Stanley Osher, Los Angeles, CA, Nov. 2009.

**Work Experience:**

- 2010, summer Intern at IBM T. J. Watson Research Center, Hawthorne, New York, working with Doctors Lexing Xie, Gang Hua and Apostol (Paul) Natsev.