John Paisley

Columbia University
Department of Electrical Engineering
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Employment

Columbia University, New York, NY

Associate Professor, Department of Electrical Engineering — 7/2018 – present

Assistant Professor, Department of Electrical Engineering — 7/2013 – 7/2018

University of California, Berkeley, Berkeley, CA — 7/2011 – 7/2013

Postdoctoral Fellow, EECS Computer Science Division. Advisor: Michael I. Jordan

Princeton University, Princeton, NJ — 1/2010 – 7/2011

Postdoctoral Fellow, Department of Computer Science. Advisor: David Blei

Education

Duke University, Durham, NC

Ph.D. Electrical and Computer Engineering, May 2010. Advisor: Lawrence Carin

M.S. Electrical and Computer Engineering, May 2007

B.S.E. Electrical and Computer Engineering, Computer Science; Minor: Classical Studies, May 2004

Harvard University Extension School, Cambridge, MA

Master of Liberal Arts (ALM), Field: History, November 2020

Honors and Awards

Klein Family History Prize (ALM thesis award), Harvard Extension School, May 2021

Best Paper Award, Signal Processing Journal (Elsevier), European Association for Signal Processing, 2020

Minjiang Scholar Professor (honorary), Xiamen University, Information Science & Engineering, 3/19 – 8/22

Distinguished Faculty Teaching Award, Columbia School of Engineering & Applied Science, 2017

Top 10% Paper Recognition, IEEE International Conference on Image Processing (ICIP), 2013

Notable Paper Award, International Conference on Artificial Intelligence and Statistics (AISTATS), 2011

Charles R. Vail Outstanding Graduate Scholarship Award, Duke University, May 2010

David Randall Fuller Prize for Achievement in ECE, Duke University, May 2004

Publications

Journal Papers

1. H. Lin, W. Zeng, Y. Zhuang, X. Ding, Y. Huang and J. Paisley (2022). Learning rate dropout. *IEEE Transactions on Neural Networks and Learning Systems*, to appear
2. L. Sun, C. Li X. Ding, Y. Huang, Z. Chen, G. Wang, Y. Yu and J. Paisley (2022). Few-shot medical image segmentation using a global correlation network with discriminative embedding. *Computers in Biology and Medicine*, vol. 140, 105067.

3. X. Fu, Q. Qi, Z-J. Zha, X. Ding, J. Paisley and F. Wu (2021). Successive graph convolutional network for image de-raining. *International Journal of Computer Vision: Special Issue on Computer Vision for All Seasons: Adverse Weather and Lighting Conditions*, vol. 129, no. 5, pp. 1691-1711.
4. X. Fu, W. Wang, Y. Huang, X. Ding and J. Paisley (2021). Deep multiscale detail networks for multi-band spectral image sharpening, *IEEE Transactions on Neural Networks and Learning Systems*, vol. 32, no. 5, pp. 2090-2104.
5. H. Lin, Y. Li, X. Fu, X. Ding, Y. Huang and J. Paisley (2020). Rain O'er Me: Synthesizing real rain to derain with data distillation, *IEEE Transactions on Image Processing*, vol. 29, pp. 7668-7680.
6. L. Sun, Y. Wu, B. Shu, X. Ding, C. Cai, Y. Huang and J. Paisley (2020). A dual-domain deep lattice network for rapid MRI reconstruction, *Neurocomputing*, vol. 397, pp. 94-107.
7. S. Gultekin, A. Sana, A. Ratnaparkhi and J. Paisley (2020). MBA: Mini-batch AUC optimization, *IEEE Transactions on Neural Networks and Learning Systems*, vol. 31, no. 12, pp. 5561-5574,.
8. L Sun, J. Wang, Y. Huang, X. Ding, H. Greenspan and J. Paisley (2020). An adversarial learning approach to medical image synthesis for lesion detection, *IEEE Journal of Biomedical and Health Informatics*, vol. 24, no. 8, pp. 2303-2314.
9. L. Sun, W. Ma, X. Ding, Y. Huang, D. Liang and J. Paisley (2020). A 3D spatially-weighted network for segmentation of brain tissue from MRI, *IEEE Transactions on Medical Imaging*, vol. 39, no. 4, pp. 898-909.
10. X. Fu, B. Liang, Y. Huang, X. Ding and J. Paisley (2020). Lightweight pyramid networks for image deraining, *IEEE Transactions on Neural Networks and Learning Systems*, vol. 31, no. 6, pp. 1794-1807.
11. L. Sun, Z. Fan, X. Ding, Y. Huang and J. Paisley (2019). Region-of-interest undersampled MRI reconstruction: A deep convolutional neural network approach, *Magnetic Resonance Imaging*, vol. 63, pp. 185-192.
12. L. Sun, Z. Fan, X. Ding, C. Cai, Y. Huang and J. Paisley (2019). A divide-and-conquer approach to compressed sensing MRI, *Magnetic Resonance Imaging*, vol. 63, pp. 37-48.
13. L. Sun, Z. Fan, X. Fu, Y. Huang, X. Ding and J. Paisley (2019). A deep information sharing network for multi-contrast compressed sensing MRI reconstruction, *IEEE Transactions on Image Processing*, vol. 28, no. 12, pp. 6141-6153.
14. S. Gultekin and J. Paisley (2019). Online forecasting matrix factorization, *IEEE Transactions on Signal Processing*, vol. 67, no. 5, pp. 1223-1236.
15. B. Holtzman, A. Pate, J. Paisley, F. Waldhauser and D. Repetto (2018). Machine learning reveals cyclic changes in seismic source spectra in Geysers geothermal field, *Science Advances*, vol. 4 no. 5.
16. L. Lei, Z. Feng, X. Bai and J. Paisley (2018). A modified EM algorithm for ISAR scatterer trajectory matrix completion, *IEEE Transactions on Geoscience and Remote Sensing*, vol. 56, no. 7, pp. 3953-3962.
17. X. Cao, F. Zhou, L. Xu, D. Meng, Z. Xu and J. Paisley (2018). Hyperspectral image classification with Markov random fields and a convolutional neural network, *IEEE Transactions on Image Processing*, vol. 27, no. 5, pp. 2354-2367.
18. S. Gultekin and J. Paisley (2017). Nonlinear Kalman filtering with divergence minimization, *IEEE Transactions on Signal Processing*, vol. 65, no. 23, pp. 6319-6331.
19. X. Fu, J. Huang, X. Ding, Y. Liao and J. Paisley (2017). Clearing the skies: A deep network architecture for single-image rain removal, *IEEE Transactions on Image Processing*, vol. 26, no. 6, pp. 2944-2956.
20. V. Chen, J. Paisley and X. Lu (2017). Revealing common disease mechanisms shared by tumors of different tissues of origin through semantic representation of genomic alterations and topic modeling, *BMC Genomics*, 8(Suppl 2):105.
21. X. Fu, D. Zeng, Y. Huang, Y. Liao, X. Ding and J. Paisley (2016). A fusion-based enhancing method for weakly illuminated images, *Signal Processing*, vol. 129, pp. 82-96.
22. J. Paisley, C. Wang, D. Blei and M.I. Jordan (2015). Nested hierarchical Dirichlet processes, *IEEE Transactions on Pattern Analysis and Machine Intelligence*, vol. 37, no. 2, pp. 256-270.

23. T. Broderick, L. Mackey, J. Paisley and M.I. Jordan (2015). Combinatorial clustering and the beta negative binomial process, *IEEE Trans. on Pattern Analysis and Machine Intelligence*, vol. 37, no. 2, pp. 290-306.
24. Y. Huang, J. Paisley, Q. Lin, X. Ding, X. Fu and X. Zhang (2014). Bayesian nonparametric dictionary learning for compressed sensing MRI, *IEEE Trans. on Image Processing*, vol. 23, no. 12, pp. 5007-5019.
25. M. Hoffman, D. Blei, C. Wang and J. Paisley (2013). Stochastic variational inference, *Journal of Machine Learning Research*, vol. 14, pp. 1303-1347.
26. J. Paisley, C. Wang and D. Blei (2012). The discrete infinite logistic normal distribution, *Bayesian Analysis*, vol. 7, no. 2, pp. 235-272.
27. M. Zhou, H. Chen, J. Paisley, L. Ren, L. Li, Z. Xing, D. Dunson, G. Sapiro and L. Carin (2012). Nonparametric Bayesian dictionary learning for analysis of noisy and incomplete images, *IEEE Transactions on Image Processing*, vol. 21, no. 1, pp. 130-144.
28. J. Paisley, X. Liao and L. Carin (2010). Active learning and basis selection for kernel-based linear models: a Bayesian perspective, *IEEE Transactions on Signal Processing*, vol. 58, no. 5, pp. 2686-2700.
29. I. Pruteanu-Malinici, L. Ren, J. Paisley, E. Wang and L. Carin (2010). Hierarchical Bayesian modeling of topics in time-stamped documents, *IEEE Transactions on Pattern Analysis and Machine Intelligence*, vol. 32, no. 6, pp. 996-1011.
30. M. Chen, J. Silva, J. Paisley, C. Wang, D. Dunson and L. Carin (2010). Compressive sensing on manifolds using a nonparametric mixture of factor analyzers: algorithm and performance bounds, *IEEE Transactions on Signal Processing*, vol. 58, no. 12, pp. 6140-6155.
31. B. Chen, M. Chen, J. Paisley, A. Zaas, C. Woods, G.S. Ginsburg, A. Hero III, J. Lucas, D. Dunson and L. Carin (2010). Bayesian inference of the number of factors in gene-expression analysis: Application to human virus challenge studies, *BMC Bioinformatics*, 11:552.
32. J. Paisley and L. Carin (2009). Hidden Markov models with stick breaking priors, *IEEE Transactions on Signal Processing*, vol. 57, no. 10, pp. 3905-3917.
33. K. Ni, J. Paisley, L. Carin and D. Dunson (2008). Multi-task learning for analyzing and sorting large databases of sequential data, *IEEE Transactions on Signal Processing*, vol. 56, no. 8-2, pp. 3918-3931.
34. Y. Qi, J.W. Paisley, L. Carin (2007). Music analysis using hidden Markov mixture models, *IEEE Transactions on Signal Processing*, vol. 55, no. 11, pp. 5209-5224.

Conference Papers

35. A. Mittal, J. Paisley and P. Sajda (2022). Deep metric representation learning for clinical resting state fMRI, *Engineering in Mcedicine and Biology Conference*, Glasgow, UK.
36. G. Fazelnia, M. Ibrahim, C. Modarres, K. Wu and J. Paisley (2020). Mixed membership recurrent neural networks for modeling customer purchases, *ACM International Conference on AI in Finance*, New York, NY, USA.
37. S. Gultekin and J. Paisley (2020). Risk bounds for low cost bipartite ranking, *Conference on Uncertainty in Artificial Intelligence*, Toronto, Canada.
38. J. Liu, J. Paisley, M.-A. Kioumourtzoglou and B. Coull (2019). Accurate uncertainty estimation and decomposition in ensemble learning, *Advances in Neural Information Processing Systems*, Vancouver, Canada.
39. T. Tu, J. Paisley, S. Haufe and P. Sajda (2019). A state-space model for inferring effective connectivity of latent neural dynamics from simultaneous EEG/fMRI, *Advances in Neural Information Processing Systems*, Vancouver, Canada.
40. X. Fu, Z. Zha, F. Wu, X. Ding and J. Paisley (2019). JPEG artifacts reduction via deep convolutional sparse coding, *International Conference on Computer Vision*, Seoul, Korea.
41. W. Wang, W. Zeng, Y. Huang, X. Ding and J. Paisley (2019). Deep blind hyperspectral image fusion, *International Conference on Computer Vision*, Seoul, Korea.

42. A. Zhang and J. Paisley (2019). Random function priors for correlation modeling, *International Conference on Machine Learning*, Long Beach, CA, USA.

43. L. Sun, Z. Fan, X. Ding, Y. Huang and J. Paisley (2019). Joint CS-MRI reconstruction and segmentation with a unified deep network, *Conference on Information Processing in Medical Imaging*, Hong Kong, China.

44. A. Zhang, Q. Wang, Z. Zhu, J. Paisley and C. Wang (2019). Fully supervised speaker diarization, *IEEE International Conference on Acoustics, Speech and Signal Processing*, Brighton, UK.

45. M. Ibrahim, M. Louie, C. Modarres and J. Paisley (2019). Global explanations of neural networks: Mapping the landscape of predictions, *AAAI/ACM Conference on AI, Ethics, and Society*, Honolulu, HI, USA.

46. S. Gultekin, A. Zhang and J. Paisley (2018). Asymptotic simulated annealing for variational inference, *IEEE Global Communications Conference*, Abu Dhabi, UAE.

47. Z. Fan, L. Sun, X. Ding, Y. Huang, C. Cai and J. Paisley (2018). A segmentation-aware deep fusion network for compressed sensing MRI, *European Conference on Computer Vision*, Munich, Germany.

48. G. Fazelnia and J. Paisley (2018). CRVI: Convex relaxation for variational inference, *International Conference on Machine Learning*, Stockholm, Sweden.

49. A. Zhang and J. Paisley (2018). Deep Bayesian nonparametric tracking, *International Conference on Machine Learning*, Stockholm, Sweden.

50. S. Cai, J. Huang, D. Zeng, X. Ding and J. Paisley (2018). MEnet: A metric expression network for salient object segmentation, *International Joint Conference on Artificial Intelligence*, Stockholm, Sweden.

51. L. Sun, Z. Fan, Y. Huang, X. Ding and J. Paisley (2018). Compressed sensing MRI using a recursive dilated network, *AAAI Conference on Artificial Intelligence*, New Orleans, LA, USA.

52. A.B. Dieng, D. Tran, R. Ranganath, J. Paisley and D. Blei (2017). Variational inference via χ upper bound minimization, *Advances in Neural Information Processing Systems*, Long Beach, CA, USA.

53. J. Yang, X. Fu, Y. Hu, Y. Huang, X. Ding and J. Paisley (2017). PanNet: A deep network architecture for pan-sharpening, *International Conference on Computer Vision*, Venice, Italy.

54. X. Fu, J. Huang, D. Zeng, Y. Huang, X. Ding and J. Paisley (2017). Removing rain from single images via a deep detail network, *IEEE Conference on Computer Vision and Pattern Recognition*, Honolulu, HI, USA.

55. A.B. Dieng, C. Wang, J. Gao and J. Paisley (2017). TopicRNN: A recurrent neural network with long-range semantic dependency, *International Conference on Learning Representations*, Toulon, France.

56. A. Zhang and J. Paisley (2016). Markov latent feature models, *International Conference on Machine Learning*, New York, NY, USA.

57. A. Zhang, S. Gultekin and J. Paisley (2016). Stochastic variational inference for the HDP-HMM, *International Conference on Artificial Intelligence and Statistics*, Cadiz, Spain.

58. Y. Jiang, X. Ding, D. Zeng, Y. Huang and J. Paisley (2015). Pan-sharpening with a hyper-Laplacian penalty, *International Conference on Computer Vision*, Santiago, Chile.

59. A. Schein, J. Paisley, D. Blei and H. Wallach (2015). Bayesian Poisson tensor factorization for inferring multilateral relations from sparse dyadic event counts, *International Conference on Knowledge Discovery and Data Mining*, Sydney, Australia.

60. A. Zhang and J. Paisley (2015). Markov mixed membership models, *International Conference on Machine Learning*, Lille, France.

61. D. Liang and J. Paisley (2015). Landmarking manifolds with Gaussian processes, *International Conference on Machine Learning*, Lille, France.

62. S. Sertoglu and J. Paisley (2015). Scalable Bayesian nonparametric dictionary learning, *European Signal Processing Conference*, Nice, France. (invited paper)

63. S. Gultekin and J. Paisley (2014). A collaborative Kalman filter for time-evolving dyadic processes, *IEEE International Conference on Data Mining*, Shenzhen, China.

64. D. Liang, J. Paisley and D. Ellis (2014). Codebook-based scalable music tagging with Poisson matrix factorization, *International Society for Music Information Retrieval Conference*, Taipei, Taiwan.

65. X. Ding, Y. Jiang, Y. Huang and J. Paisley (2014). Pan-sharpening with a Bayesian nonparametric dictionary learning model, *International Conference on Artificial Intelligence and Statistics*, Reykjavik, Iceland.

66. X. Ding, J. Paisley, Y. Huang, X. Chen, F. Huang and X. Zhang (2013). Compressed sensing MRI with Bayesian dictionary learning, *IEEE International Conference on Image Processing*, Melbourne, Australia.

67. J. Xie, Y. Huang, J. Paisley, X. Ding and X. Zhang (2013). Pan-sharpening based on nonparametric Bayesian adaptive dictionary learning, *IEEE International Conf. on Image Processing*, Melbourne, Australia.

68. J. Paisley, D. Blei and M.I. Jordan (2012). Variational Bayesian inference with stochastic search, *International Conference on Machine Learning*, Edinburgh, Scotland.

69. J. Paisley, D. Blei and M.I. Jordan (2012). Stick-breaking beta processes and the Poisson process, *International Conference on Artificial Intelligence and Statistics*, La Palma, Canary Islands.

70. J. Paisley, L. Carin and D. Blei (2011). Variational inference for stick-breaking beta process priors, *International Conference on Machine Learning*, Bellevue, WA, USA.

71. J. Paisley, C. Wang and D. Blei (2011). The discrete infinite logistic normal distribution for mixed-membership modeling, *International Conference on Artificial Intelligence and Statistics*, Fort Lauderdale, FL, USA.

72. C. Wang, J. Paisley and D. Blei (2011). Online variational inference for the hierarchical Dirichlet process, *International Conference on Artificial Intelligence and Statistics*, Fort Lauderdale, FL, USA.

73. M. Zhou, C. Wang, M. Chen, J. Paisley, D. Dunson and L. Carin (2011). Nonparametric Bayesian matrix completion, *International Conference on Sampling Theory and Applications*, Singapore.

74. J. Paisley, M. Zhou, G. Sapiro and L. Carin (2010). Nonparametric image interpolation and dictionary learning using spatially-dependent Dirichlet and beta process priors, *IEEE International Conference on Image Processing*, Hong Kong, China.

75. J. Paisley, A. Zaas, C.W. Woods, G.S. Ginsburg and L. Carin (2010). A stick-breaking construction of the beta process, *International Conference on Machine Learning*, Haifa, Israel.

76. J. Paisley and L. Carin (2010). A nonparametric Bayesian model for kernel matrix completion, *IEEE International Conference on Acoustics, Speech and Signal Processing*, Dallas, TX.

77. B. Chen, J. Paisley, L. Carin (2010). Sparse linear regression with beta process priors, *IEEE International Conference on Acoustics, Speech and Signal Processing*, Dallas, TX.

78. M. Zhou, H. Chen, J. Paisley, L. Ren, G. Sapiro and L. Carin (2009). Non-parametric Bayesian dictionary learning for sparse image representations, *Advances in Neural Information Processing Systems*, Vancouver, Canada.

79. J. Paisley and L. Carin (2009). Nonparametric factor analysis with beta process priors, *International Conference on Machine Learning*, Montreal, Canada.

80. J. Paisley and L. Carin (2009). Dirichlet process mixture models with multiple modalities, *IEEE International Conference on Acoustics, Speech and Signal Processing*, Taipei, Taiwan.

81. Y. Qi, J. Paisley, L. Carin (2007). Dirichlet process HMM mixture models with application to music analysis, *IEEE International Conference on Acoustics, Speech and Signal Processing*, Honolulu, HI.

Book Chapters

82. J. Paisley, D. Blei and M. Jordan (2014). Bayesian nonnegative matrix factorization with stochastic variational inference, In E.M. Airoldi, D. Blei, E.A. Erosheva & S.E. Fienberg (Eds.), *Handbook of Mixed Membership Models and Their Applications.* Chapman & Hall/CRC Handbooks of Modern Statistical Methods.

Thesis

83. J. Paisley (2020). *Bertrand Russell and China During and After His Visit in 1920.* A.L.M. Thesis, Harvard University Extension School.
84. J. Paisley (2010). *Machine Learning with Dirichlet and Beta Process Priors: Theory and Applications.* Ph.D. Dissertation, Duke University.
85. J. Paisley (2007). *Machine Learning Applications in Music Recommendation.* M.S. Thesis, Duke University.

Professional Activities

Senior Program Committee

International Conference on Machine Learning (ICML), 2015, 2018, 2020, 2021, 2022

Neural Information Processing Systems (NeurIPS), 2018, 2019, 2020, 2021, 2022

Artificial Intelligence and Statistics (AISTATS), 2014, 2015, 2017, 2022

Uncertainty in Artificial Intelligence (UAI), 2019

International Joint Conference on Artificial Intelligence (IJCAI), 2015, 2016, 2017, 2019, 2020, 2021

AAAI Conference on Artificial Intelligence (AAAI), 2018, 2020, 2021, 2022, 2023

International Conference on Learning Representations (ICLR), 2021, 2022

Conference and Workshop Organization

NeurIPS Workshop on Fair AI in Finance (co-organizer), 2020

NeurIPS Workshop on Challenges and Opportunities for AI in Financial Services (co-organizer), 2018

IEEE International Conference on Visual Communications and Image Processing (special sessions), 2018

IEEE International Workshop on Multimedia Signal Processing (special sessions), 2015

International Conference on Machine Learning (volunteers), 2014

Topic contributed session (organizer and chair), Joint Statistical Meetings, 2013

Associate Editor

IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019 – 2020

Selected Journal Reviewing

Annals of Applied Statistics (IMS)

Bayesian Analysis (ISBA)

Bernoulli Journal (IMS)

IEEE Transactions on Cybernetics

IEEE Transactions on Image Processing

IEEE Transactions on Knowledge and Data Engineering

IEEE Transactions on Multimedia

IEEE Transactions on Neural Networks and Learning Systems

IEEE Transactions on Pattern Analysis and Machine Intelligence

IEEE Transactions on Signal Processing

Journal of the American Statistical Association (ASA)

Journal of Computational and Graphical Statistics (ASA)

Journal of Machine Learning Research
Technometrics (ASA)

Selected Conference Reviewing

AAAI Conference on Artificial Intelligence (AAAI) 2012, 2019
Artificial Intelligence and Statistics (AISTATS) 2012, 2013, 2016, 2019, 2021
Conference on Computer Vision and Pattern Recognition (CVPR) 2018, 2019, 2020, 2021
International Conference on Computer Vision (ICCV), 2019
International Conference on Learning Representations (ICLR) 2018, 2019, 2020
International Conference on Machine Learning (ICML) 2010, 2012, 2013, 2014, 2016, 2017, 2019
Neural Information Processing Systems (NIPS) 2010, 2011, 2012, 2013, 2015, 2016, 2017
Uncertainty in Artificial Intelligence (UAI) 2011, 2012, 2013, 2014, 2015, 2016, 2017

Teaching at Columbia University

EECS 6720: Bayesian Models for Machine Learning, F'16, F'17, F'18, F'20, (as EECS 6892) S'14, F'15
ELEN 4720: Machine Learning for Signals, Information and Data, S'20, F'21, (as ELEN 4903) S'16, S'18
COMS 4721: Machine Learning for Data Science, S'15, S'17, S'19, S'21
EECS 9601: Topic: Advanced Probabilistic Machine Learning, F'19, S'22 (as ELEN 9801) F'14
ENGI 4800: Data Science Capstone & Ethics (mentor, with Marianthi-Anna Kioumourtzoglou), F'19
ColumbiaX on edX (Computer Science): Machine Learning

Ph.D. Supervision

San Gultekin (EE, 2013 – 2019) Successfully defended in April 2019
Aonan Zhang (EE, 2014 – 2019) Successfully defended in September 2019
Ghazal Fazelnia (EE, 2015 – 2019) Successfully defended in September 2019
Adji Bousso Dieng (Statistics, 2016 – 2020) Successfully defended in April 2020
Arunesh Mittal (EE, 2018 – present)
Wei Zhang (EE, 2019 – present)
Aditya Makkar (EE, 2019 – May 2022)

Ph.D. Committees (completed)

Junfeng He (Columbia University, Electrical Engineering, 2013)
Changyou Chen (Australian National University, Computer Science, 2014)
Yasin Yilmaz (Columbia University, Electrical Engineering, 2014)
Felix Yu (Columbia University, Electrical Engineering, 2015)
Guangnan Ye (Columbia University, Electrical Engineering, 2015)
Xiao-Ming Wu (Columbia University, Electrical Engineering, 2016)
Xiannian Fan (City University of New York, Computer Science, 2016)
Brendan Jou (Columbia University, Electrical Engineering, 2016)
Dawen Liang (Columbia University, Electrical Engineering, 2016)
Vicky Chen (University of Pittsburgh, Biomedical Informatics, 2016)
Shang Li (Columbia University, Electrical Engineering, 2017)

Yuanjun Gao (Columbia University, Statistics, 2017)
Yingming Tsai (Columbia University, Electrical Engineering, 2017)
Yuqian Zhang (Columbia University, Electrical Engineering, 2018)
Gonzalo Mena (Columbia University, Statistics, 2018)
Nikul Ukani (Columbia University, Electrical Engineering, 2018)
Maja Rudolph (Columbia University, Computer Science, 2018)
Guoqing Zheng (Carnegie Mellon University, Computer Science, 2018)
Qing Qu (Columbia University, Electrical Engineering, 2018)
Samet Ozturk (Columbia University, Earth and Environmental Engineering, 2019)
He Zhao (Monash University, Information Technology, 2019)
Timothy Jones (Columbia University, Statistics, 2019)
Ruoxi Sun (Columbia University, Statistics, 2019)
Oyetunji Ogundijo (Columbia University, Electrical Engineering, 2019)
Kevin Shi (Columbia University, Computer Science, 2019)
Da Tang (Columbia University, Computer Science, 2019)
Ji Xu (Columbia University, Computer Science, 2020)
Mehmet Necip Kurt (Columbia University, Electrical Engineering, 2020)
Tao Tu (Columbia University, Biomedical Engineering, 2020)
Morteza Ashraphijuo (Columbia University, Electrical Engineering, 2020)
Dar Gilboa (Columbia University, Neurobiology and Behavior, 2020)
Ding Zhou (Columbia University, Statistics, 2021)
Yi Luo (Columbia University, Electrical Engineering, 2021)
Elizabeth Gibson (Columbia University, Environmental Health Sciences, 2021)
Soo Young Park (Columbia University, Electrical Engineering, 2021)
Elliott Gordon Rodriguez (Columbia University, Statistics, 2022)
Sam Buchanan (Columbia University, Electrical Engineering, 2022)
Owen Ward (Columbia University, Statistics, 2022)

Invited Talks

2021 University of Michigan, Statistics Seminar
Correlation One, Data Science for All (DS4A) Series
U.S. Securities and Exchange Commission (SEC), Quant Seminar
Text IQ, "The Inevitable" Webinar Series
Capital One, Modeling and Analytics Conference, keynote speaker

2019 ISBA Conference on Bayesian Nonparametrics, Oxford, UK
Workshop on Signal and Information Intelligent Learning and Processing, Xi'an, China
Guilin University of Electronic Technology, Computer Science Seminar
South China University of Technology, Mathematics Seminar
Xiamen University, Information Science & Engineering (short course)
Xidian University, Electronic Engineering Seminar
Xi'an Jiaotong University, Applied Mathematics Seminar

2018 Xiamen University, Information Science Seminar
9th MPSEED Workshop, Chinese Academy of Sciences, Kunming, China
Google AI China Center, Beijing
The Data Open: Code Edition, Citadel LLC
New York Artificial Intelligence in Healthcare Meetup
South China University of Technology, School of Mathematics (short course)
Rutgers University, Signal and Information Processing Seminar

2017 Xiamen University, Information Science Seminar
Xidian University, Electronic Engineering Seminar
Duke-Tsinghua Machine Learning Summer School, Kunshan, China
New Jersey Institute of Technology, Data Mining & Analysis for Managers, guest lecture
Columbia University, Data Science Institute Colloquium
Carnegie Mellon University, Machine Learning Lunch Seminar
University of Pittsburgh, Biomedical Informatics Colloquium

2016 Becton Dickinson Company, Statistics and Data Analytics Meeting, keynote talk
University of Texas at Austin, Statistics and Data Sciences Seminar
Xiamen University, Information Science Seminar
Duke-Tsinghua Machine Learning Summer School, Kunshan, China

2015 University of Washington, Statistics Seminar
University of Toronto, Machine Learning Tea Talk
Ryerson University, Electrical and Computer Engineering Seminar
European Signal Processing Conference, Nice, France
Workshop on Sensing and Analysis of High-Dimensional Data, Duke University
Workshop on Information Theory and Applications, University of California, San Diego

2014 Hong Kong University of Science and Technology, Business School Seminar
Xiamen University, Information Science Seminar

2013 Workshop on Graphical Models, Columbia University
City University of New York, Computer Science Colloquium
Joint Statistical Meetings, Montreal, Canada
Tsinghua University, Institute for Interdisciplinary Information Sciences Colloquium
Columbia University, Electrical Engineering Colloquium
Princeton University, Computer Science Colloquium
ISBA Conference on Bayesian Nonparametrics, Amsterdam, Netherlands
University of Virginia, Computer Science Colloquium
Xiamen University, Information Science Seminar
Xidian University, Electronic Engineering Seminar

Pre-2013 Hunan University of Science and Technology, 2012
INRIA, École Normale Supérieure, SIERRA Seminar, 2012
Northeastern University, Electrical and Computer Engineering Seminar, 2012
University College London, Gatsby Unit Seminar, 2012
Xiamen University, Information Science Seminar, 2011, 2012
University of California, Berkeley, Neyman Seminar, 2011
NSWC Panama City Division, 2009

Princeton University, Computer Science Seminar, 2009

Scientific Advisor

Text IQ (2017 – 2021) http://www.textiq.com

Correlation One (2017 – present) http://www.correlation-one.com

Other Information

Google Scholar: https://scholar.google.com/citations?user=r31_fYQAAAAJ&hl=en
Other languages: Mandarin Chinese (HSK 5), Japanese (JLPT N4)
Citizenship: USA