

Jie Ding

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POSITION

University of Minnesota	Minneapolis, MN
Associate Professor in Statistics	From Sept. 2023
Tenure-Track Assistant Professor in Statistics	2018-2023
Graduate Faculty in Electrical and Computer Engineering	
Graduate Faculty in Data Science	
Duke University	Durham, NC
Postdoctoral Fellow in Data Science	2018

EDUCATION

Harvard University	Cambridge, MA
Ph.D., Engineering Sciences & A.M., Statistics	2017
Ph.D. Thesis: Nonlinear Modeling and Prediction for Time Series	
Tsinghua University	Beijing, China
B.S., Mathematics and Electrical Engineering	2012

PUBLICATION

AI Foundations

1. J. Zhang, Y. Yang, J. Ding, "Information Criteria for Model Selection," *WIRES Computational Statistics (invited article)*, 2023.
2. G. Li, G. Wang, J. Ding, "Provable Identifiability of Two-Layer ReLU Neural Networks via LASSO Regularization," *IEEE Transactions on Information Theory*, to appear, 2023.
3. G. Li, J. Ding, "Towards Understanding Variation-Constrained Deep Neural Networks," *IEEE Transactions on Signal Processing*, to appear, 2023.
4. C. Morchdi, Y. Zhou, J. Ding, B. Wang, "Exploring Gradient Oscillation in Deep Neural Network Training," *59th Annual Allerton Conference on Communication, Control, and Computing (Allerton)*, 2023.
5. S. Wu, E. Diao, T. Banerjee, J. Ding, V. Tarokh, "Quickest change detection for unnormalized statistical models," *IEEE Transactions on Information Theory*, to appear, 2023.
6. J. Zhang, J. Ding, Y. Yang, "Is a Classification Procedure Good Enough? -- A Goodness-of-Fit Assessment

- Tool for Classification Learning,” *Journal of the American Statistical Association*, to appear, 2022.
7. J. Zhang, J. Ding, Y. Yang, “Targeted Cross-Validation,” *Bernoulli*, to appear, 2022.
 8. J. Ding, E. Diao, J. Zhou, V. Tarokh, “On Statistical Efficiency in Learning,” *IEEE Transactions on Information Theory*, vol. 67, no. 4, pp. 2488-2506, 2021.
 9. G. Li, Y. Gu, J. Ding, “L1 Regularization in Two-Layer Neural Networks,” *IEEE Signal Processing Letters*, vol. 29, pp. 135-139, 2021.
 10. Y. Xiang, J. Ding, V. Tarokh, “Evolutionary Spectra Based on the Multitaper Method with Application to Stationarity Test,” *IEEE Transactions on Signal Processing*, vol. 67, no. 9, pp. 1353-1365, 2019.
 11. J. Ding, V. Tarokh and Y. Yang, “Bridging AIC and BIC: A New Criterion for Autoregression,” *IEEE Transactions on Information Theory*, vol. 64, no. 6, pp. 4024-4043, 2018.
 12. J. Ding, Y. Yang, V. Tarokh, “Model Selection Techniques--an overview,” *IEEE Signal Processing Magazine (featured article)*, vol. 35, no. 6, pp. 16-34, 2018.
 13. J. Ding, S. Shahrapour, K. Heal, and V. Tarokh, “Analysis and Prediction of Multi-State Autoregressive Models,” *IEEE Transactions on Signal Processing*, vol. 66, no. 9, pp. 2429-2440, 2018.
 14. J. Ding, Y. Xiang, L. Shen, and V. Tarokh, “Multiple Change Point Analysis: Fast Implementation and Strong Consistency,” *IEEE Transactions on Signal Processing*, vol. 65, no. 17, pp. 4495-4510, 2017.

Scalable Model Training and Inference

15. X. Tang, J. Zhang, Y. He, X. Zhang, Z. Lin, S. Partarrieu, E. Hanna, Z. Ren, H. Shen, Y. Yang, X. Wang, N. Li, J. Ding, J. Liu. “Explainable Multi-Task Learning for Multi-Modality Biological Data Analysis.” *Nature Communications* (Editors’ Highlight), to appear, 2023.
16. E. Diao, G. Wang, J. Zhang, Y. Yang, J. Ding, V. Tarokh, “Pruning Deep Neural Networks from a Sparsity Perspective,” *International Conference on Learning Representations (ICLR)*, 2023.
17. E. Mushtaq, C. He, J. Ding, S. Avestimehr, “Distributed Architecture Search Over Heterogeneous Distributions,” *Transactions on Machine Learning Research (TMLR)*, 2023.
18. S. Wu, E. Diao, J. Ding, T. Banerjee, V. Tarokh, “Robust Quickest Change Detection for Unnormalized Models,” *Conference on Uncertainty in Artificial Intelligence (UAI)*, 2023.
19. C. Chen, J. Zhou, J. Ding, Y. Zhou, “Assisted Learning for Organizations with Limited Imbalanced Data,” *Transactions on Machine Learning Research*, to appear, 2023.
20. X. Wang, J. Zhang, M. Hong, Y. Yang, J. Ding, “Parallel Assisted Learning,” *IEEE Transactions on Signal Processing*, to appear, 2022.
21. E. Diao, J. Ding, V. Tarokh, “Gradient Assisted Learning,” *Conference on Neural Information Processing Systems (NeurIPS)*, 2022.
22. M. Soltani, S. Wu, Y. Li, R. Ravier, J. Ding, and V. Tarokh, “Compressing Deep Networks Using Fisher Score of Feature Maps,” *Data Compression Conference (DCC)*, 2021.
23. X. Xian, X. Wang, J. Ding, R. Ghanadan, “Assisted Learning: A Framework for Multi-Organization

- Learning,” *Conference on Neural Information Processing Systems (NeurIPS)*, Spotlight Presentation (3%), 2020.
24. S. Shao, P. Jacob, J. Ding, V. Tarokh, “Bayesian Model Comparison with the Hyvarinen Score: Computation and Consistency,” *Journal of the American Statistical Association*, vol. 114, no. 528, pp. 1826-1837, 2019.
25. K. Elkhilil, A. Hasan, J. Ding, S. Farsiu, V. Tarokh, “Fisher Auto-Encoders,” *International Conference on Artificial Intelligence and Statistics (AISTAT)*, 352-360, 2021.
26. T. Xie, J. Ding, “Forecasting with Multiple Seasonality,” *IEEE International Conference on Big Data (IEEE BigData)*, 2020.
27. S. Wu, E. Diao, J. Ding, V. Tarokh, “Deep Clustering of Compressed Variational Embeddings,” *Data Compression Conference (DCC)*, 2020.
28. E. Diao, J. Ding, V. Tarokh, “DRASIC: Distributed Recurrent Autoencoder for Scalable Image Compression,” *Data Compression Conference (DCC)*, 2020.
29. J. Ding, J. Zhou, and V. Tarokh, “Asymptotically Optimal Prediction for Time-Varying Data Generating Processes,” *IEEE Transactions on Information Theory*, vol. 65, no. 5, pp. 3034-3067, 2019.
30. J. Ding, R. Calderbank, V. Tarokh, “Gradient Information for Representation and Modeling,” *Conference on Neural Information Processing Systems (NeurIPS)*, 2019.
31. E. Diao, J. Ding, V. Tarokh, “Restricted Recurrent Neural Networks,” *IEEE International Conference on Big Data (IEEE BigData)*, 2019.
32. S. Shahrampour, M. Noshad, J. Ding, V. Tarokh, “Online Learning for Multimodal Data Fusion with Application to Object Recognition,” *IEEE Transactions on Circuits and Systems II: Express Briefs*, vol. 65, no. 9, pp. 1259-1263, 2018.
33. Q. Han, J. Ding, E. Airoldi, and V. Tarokh, “SLANTS: Sequential Adaptive Nonlinear Modeling of Time Series,” *IEEE Transactions on Signal Processing*, vol. 65, no. 19, pp. 4994-5005, 2017.

AI Security and Privacy

34. G. Wang, X. Xian, X. Bi, J. Srinivasa, A. Kundu, M. Hong, J. Ding, “Demystifying Poisoning Backdoor Attacks from a Statistical Perspective,” *International Conference on Learning Representations (ICLR)*, 2024.
35. X. Xian, G. Wang, J. Srinivasa, A. Kundu, X. Bi, M. Hong, J. Ding, “A Unified Framework for Inference-Stage Backdoor Defenses,” *Conference on Neural Information Processing Systems (NeurIPS)*, 2023.
36. X. Xian, G. Wang, J. Srinivasa, A. Kundu, X. Bi, M. Hong, J. Ding, “Understanding Backdoor Attacks through the Adaptability Hypothesis,” *International Conference on Machine Learning (ICML)*, 2023.
37. X. Xian, M. Hong, J. Ding, “Understanding Model Extraction Games,” *IEEE International Conference on Trust, Privacy and Security in Intelligent Systems, and Applications (TPS-ISA)*, to appear, 2022.
38. J. Ding, B. Ding, “Interval Privacy: A Framework for Privacy-Preserving Data Collection,” *IEEE*

Transactions on Signal Processing, to appear, 2022.

39. X. Xian, M. Hong, J. Ding, “Mismatched Supervised Learning,” *International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, 2022.
40. G. Wang, J. Ding, Y. Yang, “Regression with Set-Valued Categorical Predictors,” *Statistica Sinica*, to appear, 2022.
41. X. Wang, Y. Xiang, J. Gao, J. Ding, “Information Laundering for Model Privacy,” *International Conference on Learning Representations (ICLR)*, **Spotlight Presentation** (5.6%), 2021.
42. J. Ding, B. Ding, “‘To Tell You the Truth’ by Interval-Private Data,” *IEEE International Conference on Big Data (IEEE BigData)*, 2020.

Collaborative AI

43. C. Chen, J. Zhang, J. Ding, Y. Zhou, “Assisted Unsupervised Domain Adaptation,” *IEEE International Symposium on Information Theory (ISIT)*, 2023.
44. Q. Le, E. Diao, X. Wang, A. Anwar, V. Tarokh, J. Ding, “Personalized Federated Recommender Systems with Private and Partially Federated AutoEncoders,” *Asilomar Conference on Signals, Systems, and Computers (Asilomar)*, to appear, 2023.
45. E. Diao, J. Ding, V. Tarokh, “SemiFL: Communication Efficient Semi-Supervised Federated Learning with Unlabeled Clients,” *Conference on Neural Information Processing Systems (NeurIPS)*, 2022.
46. C. Ye, R. Ghanadan, J. Ding, “Meta Clustering for Collaborative Learning,” *Journal of Computational and Graphical Statistics*, to appear, 2022.
47. H. Chen, J. Ding, E. Tramel, S. Wu, A. Sahu, S. Avestimehr, T. Zhang, “Self-Aware Personalized Federated Learning,” *Conference on Neural Information Processing Systems (NeurIPS)*, 2022.
48. E. Mushtaq, J. Ding, S. Avestimehr, “What If Kidney Tumor Segmentation Challenge (KiTS19) Never Happened,” *IEEE International Conference on Machine Learning and Applications (ICMLA)*, 2022.
49. L. Collins, E. Diao, T. Roosta, J. Ding, T. Zhang, “PerFedSI: A Framework for Personalized Federated Learning with Side Information,” *International Workshop on Federated Learning: Recent Advances and New Challenges in Conjunction with NeurIPS (FL-NeurIPS'22)*, 2022.
50. E. Diao, J. Ding, V. Tarokh, “HeteroFL: Computation and Communication Efficient Federated Learning for Heterogeneous Clients,” *International Conference on Learning Representations (ICLR)*, 2021.
51. J. Zhou, J. Ding, K. M. Tan, and V. Tarokh, “Model Linkage Selection for Cooperative Learning,” *Journal of Machine Learning Research*, vol. 22, no. 256, pp. 1–44, 2021.

Miscellaneous

52. J. Gao, J. Ding, “Large Deviation Principle for the Whittaker 2D Growth Model,” arXiv preprint arXiv:2009.12907, 2020.
53. J. Wang, M. Xue, and R. Culhane, E. Diao, J. Ding, and V. Tarokh, “Speech Emotion Recognition with

- Dual-Sequence LSTM Architecture,” *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, 2020.
54. J. Ding, M. Noshad, and V. Tarokh, “Complementary Lattice Arrays for Coded Aperture Imaging,” *Journal of the Optical Society of America*, vol. 33, no. 5, pp. 863-881, 2016.
55. J. Ding, A. Bouabdallah, and V. Tarokh, “Key Pre-Distributions from Graph-Based Block Designs,” *IEEE Sensors Journal*, vol. 16, no. 6, pp. 1842-1850, 2015.
56. J. Ding, L. Chen, Y. Gu, “Perturbation Analysis of Orthogonal Matching Pursuit,” *IEEE Transactions on Signal Processing*, vol. 61, no. 2, pp. 398-410, 2013.

MANUSCRIPTS UNDER REVIEW

57. J. Du, Y. Yang, J. Ding, “Adaptive Continual Learning: Rapid Adaptation and Knowledge Refinement,” 2023. Downloadable at <https://jding.org/jie-uploads/2023/05/AdaptiveCL.pdf>
58. J. Du, Y. Yang, J. Ding, “Minimax Rate for Nonparametric Lifelong Learning,” 2023.
59. G. Wang, Y. Yang, J. Ding, “Model Privacy: A Unified Framework to Understand Model Stealing Attack and Defense,” 2023.
60. X. Xu, A. Hasan, J. Ding, V. Tarokh, “Meta-Learning Parabolic Partial Differential Equations,” 2023.
61. X. Wang, Q. Le, A. Khan, J. Ding, A. Anwar, “A Framework for Incentivized Collaborative Learning,” 2023.
62. W. Yang, G. Wang, J. Ding, Y. Yang, “Theory-Guided Adaptive Backward Pruning of Deep Networks via Feature Retaining Index,” 2023.

RESEARCH AWARDS

NSF CAREER (Ding)

Continual Learning with Evolving Memory, Soft Supervision, and Cross-Domain Knowledge - Foundational Theory and Advanced Algorithms 2024-29

Role: PI

Amount: \$544,382

ARO Early Career Program, formerly known as the Young Investigator Program (Ding)

Information Fusion from Heterogeneous Sources 2023-26

Role: PI

Funded Amount: \$351,916

NIH R01 (Liu/Li/Ding)

SCH: AI-driven Flexible Electronics for Cardiac Organoid Maturation 2023-27

Role: Multi-PI

Funded Amount: \$1,200,000

NSF IMR (Zou)

<i>MM-1A: Evolutionary Modeling and Acquisition of Multidimensional 5G Internet Measurements</i>	2022-25
Role: co-PI	
Funded Amount: \$588,021	
NSF Collaborative SCALE MoDL (Zhou/Ding)	
<i>Advancing Theoretical Minimax Deep Learning: Optimization, Resilience, and Interpretability</i>	2021-24
Role: PI	
Funded Amount: \$850,000	
ONR core (Ding)	
<i>Deep Adaptive Neural Structures</i>	2021-24
Role: PI	
Funded Amount: \$705,010	
Cisco (Ding)	
<i>New Foundations and Algorithms for Advancing Adversarial Learning</i>	2022-23
Role: PI	
Funded Amount: \$155,664	
Cisco (Ding) [Completed]	
<i>Privacy-Preserving Machine Learning and Decision Making</i>	2021-22
Role: PI	
Funded Amount: \$150,388	
NSF Collaborative CPS Medium (Liu) [Completed]	
An AI-enabled Cyber-Physical-Biological System for Cardiac Organoid Maturation	2020-23
Role: co-PI	
Funded Amount: \$898,225	
ARO core (Ding) [Completed]	
<i>Robust Methods for Trustworthy Machine Learning</i>	2020-23
Role: PI	
Funded Amount: \$355,202	
UMN Grant-in-Aid (Ding) [Completed]	
<i>Dynamical Modeling of Complex Data</i>	2020-22
Role: PI	
Funded Amount: \$47,814	
DARPA (Tarokh) [Completed]	
<i>Physics for Artificial Intelligence</i>	2018-20
Role: co-PI	

Funded Amount: \$488,065

FACULTY RECOGNITIONS

NSF CAREER Award	2024
Army Early Career Program (Young Investigator) Award	2023
Cisco Research Award - two times	2022, 2023
AWS Cloud Credits for Research - two times	2021, 2022
Meta/Facebook Faculty Research Award - two times	2021, 2022
UMN Thank-A-Teacher Teaching Award – two times	2019, 2020

TEACHING EXPERIENCE

Spring 2024: STAT/CSCI/AST/PHYS 8581 - Big Data in Astrophysics

Spring 2023: STAT/CSCI/AST/PHYS 8581 - Big Data in Astrophysics

Spring 2022: STAT 4052 - Intro to Statistical Learning

Spring 2022: STAT 8112 - Mathematical Statistics II

Spring 2021: STAT 8112 - Mathematical Statistics II

Fall 2020: STAT 5302 - Applied Regression Analysis

Spring 2020: STAT 8112 - Mathematical Statistics II

Fall 2019: STAT 5302 - Applied Regression Analysis

Spring 2019: STAT 5021 - Statistical Analysis

Fall 2018: STAT 5302 - Applied Regression Analysis

PATENTS

J. Ding, X. Xian, X. Wang, “Assisted Learning and Module Privacy,” 02/12/2020, US patent, #62975348.

J. Ding, W. Hua, “Single-Epoch Pseudo-Range Positioning Under Varying Ionosphere Delays,” 06/05/2020, US patent #16894492.

J. Ding, W. Hua, “Rapid Determination of An Unknown Position,” 03/08/2018, US patent #151915974.

INVITED TALKS

- “Scalable Training and Security Maintenance for Large AI Models,” invited streaming talk at Cisco Research Generative AI and Security Summit, virtual, October 3, 2023.

- “A Unified Framework for Understanding and Quantifying Model Privacy in Adversarial Machine Learning,” invited session “The Art and Science of Predictive Modeling: from Theory to Practice” at EcoSta2023, Tokyo, Japan, August 2, 2023.
- “Pruning Deep Neural Networks from A Sparsity Perspective,” invited session “Trustworthy Machine Learning Methods and Applications” at EcoSta2023, Tokyo, Japan, August 1, 2023.
- “Model Privacy: A Unified Framework to Understand Model Stealing Attack and Defense,” invited talk at 2023 North America Machine Learning, Optimization, and Statistics Symposium (NAMOS), Vancouver, Canada, June 24, 2023.
- “Interval Privacy: A New Framework for Privacy-Preserving Data Collection,” ENAR invited session on “Analysis of Distributed Health Data: Novel Approaches and Applications”, Nashville, Tennessee, March 19, 2023.
- “Interval Privacy: A New Framework for Privacy-Preserving Data Collection,” CMStatistics invited session on “Federate Learning and Data Privacy in Modern Data Analysis”, London, UK, December 17, 2022.
- “Privacy-Preserving Multi-Target Multi-Domain Recommender Systems,” Production and Operations Management Society Annual Conference (POMS), April 21, 2022.
- “Human-Centric Privacy-Preserving Data Collection via Intervals,” Department of Applied Economics and Statistics, University of Delaware, Mar. 11, 2022.
- “Interval Privacy: A New Framework for Privacy-Preserving Data Collection,” 56th Annual Conference on Information Sciences and Systems (CISS), Mar. 9, 2022.
- “Interval Privacy: A New Framework for Privacy-Preserving Data Collection,” Department of Statistics and Actuarial Science, University of Iowa, Feb. 10, 2022.
- “Organizational Collaboration with Assisted Learning,” Computer Science Department Colloquium, Texas Tech University, Nov. 9, 2021.
- “Organizational Collaboration with Assisted Learning,” IMA Data Science Seminar, Oct. 12, 2021.
- “Privacy-Sensitive Collaborations through Assisted Learning,” Department of Statistics, University of Virginia, Feb. 26, 2021.
- “Privacy-Sensitive Collaborations through Assisted Learning,” Department of Electrical and Computer Engineering, University of Utah, Feb. 19, 2021.
- “Privacy-Sensitive Machine Learning,” Alexa AI, Amazon, Jan. 7, 2021.
- “Kinetic Prediction -- Predicting Time Series with Abrupt Changes and Smooth Evolutions,” School of Finance and Statistics, East China Normal University, Dec. 18, 2019.
- “Modeling, Prediction, and Diagnostics for Trustworthy AI,” Interdisciplinary Distinguished Seminar Series (IDSS), Department of Electrical and Computer Engineering, North Carolina State University, Oct. 25, 2019.
- “Model Selection Principles for Data Analysis,” DTC Seminar Series, Digital Technology Center, University of Minnesota, Sept. 30, 2019.

- “Modeling, Prediction, and Diagnostics from Online Streaming Data,” ECE Colloquium Series, Department of Electrical and Computer Engineering, University of Minnesota, Sept. 26, 2019.
- “Predicting Time Series with Abrupt Changes and Smooth Evolutions,” International Conference on Econometrics and Statistics (EcoSta), June 26, 2019.

SERVICES

Elected Member, Nomination & Election Subcommittee Chair (in 2020)

Machine Learning for Signal Processing Technical Committee, IEEE	Nov. 2018 - Dec. 2024
Co-Organizer, UMN Machine Learning Seminar Series	Jan. 2021 - present
Co-Organizer, IEEE International Conference on Acoustics, Speech and Signal Processing, special session on “Federated Learning Challenges and Opportunities: An Outlook”	May 2022
Program Committee, International Workshop on “Federated Learning for User Privacy and Data Confidentiality” in Conjunction with ICML 2021	June 2021
Program Committee, IEEE International Conference on Big Data	Dec. 2021
Co-Organizer, IEEE BigData Workshop on “Scalable Reinforcement Learning with Big Data”	Dec. 2021
Faculty Lead, Data+ outreach program	May 2019 - Aug. 2019
Area Chair, IEEE International Conference on Acoustics, Speech and Signal Processing	May 2020
Committee Member	Sept. 2018 - present

of Master and Ph.D. Committees from the School of Statistics, Department of Electrical and Computer Engineering, Department of Computer Science, Department of Psychology, College of Design, and Department of Agriculture at the University of Minnesota, Twin Cities

Reviewer of

NeurIPS, ICLR, Journal of Machine Learning Research, Annals of Statistics, Journal of the American Statistical Association, IEEE Transactions on Signal Processing, IEEE Transactions on Information Theory, etc.

ACADEMIC & COMMITTEE ADVISING

Doctoral Advisees

Jiawei Zhang, Statistics Ph.D. (now Assistant Professor at University of Kentucky)	2018 – 2023
Xun Xian, ECE Ph.D.	2018 - Present
Jiaying Zhou, Statistics Ph.D.	2018 - Present
Ganghua Wang, Statistics Ph.D.	2020 – Present
Jin Du, Statistics Ph.D.	2022 – Present
An Luo, Statistics Ph.D.	2023 – Present

Doctoral Preliminary Committee: Committee Chair

Mitchell Kinney, Statistics Ph.D. 2018 - 2020

Doctoral Final Committee: Committee Reviewer

Seonmo Kim, Computer Science Ph.D. 2021

Vasileios Georgios Karanikolas, Electrical Engineering Ph.D. 2021

Doctoral Preliminary Committee: Committee Member

Daniel Ngo, Computer Science Ph.D. 2020

Wenjing Yang, Statistics Ph.D. 2020

Rui Wang, Statistics Ph.D. 2020

Vasileios Georgios Karanikolas, Electrical Engineering Ph.D. 2019

Bingxin Zhao, Statistics Ph.D. 2019

Master's Thesis/Research Committee: Committee Chair

Tianyang Xie, Statistics M.S. 2020

Yilin Hou, Statistics M.S. 2019

Eunji Min, Statistics M.S. 2019

Yi Rong, Statistics M.S. 2019

Suya Wu, Statistics M.S. 2019

Mitchell Kinney, Statistics M.S. 2018

Master's Thesis/Research Committee: Committee Member

Rutvij Umesh Bora, Data Science M.S. 2021

Xiangyi Chen, Elec & Comp Eng M.S. 2021

Anubha Agrawal, Data Science M.S. 2021

Sheng Huang, Data Science M.S. 2021

Sai Kumar Kayala, Data Science M.S. 2021

Aditya Anirudha Gaydhani, Data Science M.S. 2021

Anushree Choudhary, Data Science M.S. 2021

Mourya Karan Reddy Baddam, Data Science M.S. 2021

Yuanyuan Qiu, Data Science M.S. 2021

Buu Huynh, Statistics M.S. 2021

Rachit Jas, Data Science M.S. 2020

Wenjing Yang, Statistics M.S. 2020

Zachary Brown, Biostatistics M.S. 2020

Rui Wang, Statistics M.S. 2020

Rabin KC, Applied Plant Sciences M.S. 2020

Anchit Sharma, Data Science M.S. 2020

Garim Lee, Design M.S. 2019 - 2020

Bingxin Zhao, Statistics M.S.	2019 - 2020
Lanhuizi Gan, Mass Communication M.A.	2019
Xiaochen Jin, Statistics M.S.	2019
Elise Anderson, Psychology M.A.	2019