

Yuanjia Wang

Department of Biostatistics, Mailman School of Public Health, Columbia University
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[Personal Website](#)

Academic Appointments:

- Professor of Biostatistics (in Psychiatry, with Tenure), 2018-present
Department of Biostatistics, Mailman School of Public Health, Columbia University
Department of Psychiatry, Columbia University Medical Center, Columbia University
- Associate Professor of Biostatistics (in Psychiatry, with Tenure), 2013-2018
Department of Biostatistics, Mailman School of Public Health, Columbia University
Department of Psychiatry, Columbia University Irving Medical Center, Columbia University
- Assistant Professor of Biostatistics (in Psychiatry), 2006-2013
Department of Biostatistics, Mailman School of Public Health, Columbia University
Department of Psychiatry, Columbia University Irving Medical Center, Columbia University,
- Core Faculty Member, 2006-current
Division of Mental Health Data Science, New York State Psychiatric Institute
- Affiliated Member, 2018-current, Data Science Institute, Columbia University
- Affiliate member, 2019-current, Zuckerman Institute for Mind, Brain, and Behavior, Columbia University

Research Interests:

- Machine learning, generative AI, inverse reinforcement learning
- Network analysis; Integrative analysis; Latent variable models
- Precision medicine; Optimal treatment selection
- Innovative design and analytics for clinical trials, EHRs, digital phenotypes, neuroimaging, behavioral task
- Mental health; Neurodegenerative disorders

Academic Training:

- Ph.D. in Statistics, Department of Statistics, Columbia University, 2005
- B.A., Information Management and Decision Theory, University of Science and Technology of China, 2001
- B.A., Computer Sciences (Double Major), University of Science and Technology of China, 2001

Traineeship:

- Post-Doctoral Research Scientist, 2005–2006, Gertrude H. Sergievsky Center, Columbia University Medical Center

Honors:

- First Place Winning Team for the Parkinson's Disease Digital Biomarker DREAM Challenge (Sponsored by the Michael J. Fox Foundation). 2017.

- Elected Fellow, American Statistical Association (ASA). 2016.
- Tow Faculty Leadership Scholars Award, Mailman School of Public Health, Columbia University. 2015-2018.
- Distinguished Poster Award, The International Society for Clinical Trials and Methodology 7th Annual Meeting, Baltimore, 2010.
- Diversity Research Fellowship Award, Columbia University. 2009-2010
- Calderone Prize for Junior Faculty, Columbia University. 2006-2007
- Faculty Fellowship, Columbia University. 2001-2005
- Fellowship, Chinese Academy of Sciences. 1999

Professional Service and Leadership:

- **Board of Directors:** International Chinese Statistical Association (ICSA). (2025-2027).
- Member: American Statistical Association Lester R. Curtin Award Committee. (2023-2024)
- **Section Chair:** American Statistical Association Health Policy Statistics Section (HPSS), 2021-2022
- Member: American Statistical Association Lester R Curtin Award Committee (2019-2020)
- **Section Chair:** American Statistical Association Section on Mental Health Statistics (MHS), 2018-2019
- Scientific program committee: Eastern North American Region (ENAR 2016)
- Scientific program committee: International Conference on Health Policy Statistics (ICHPS), 2015
- **Program Chair:** American Statistical Association Section on Health Policy and Statistics (HPSS), 2014-2015
- Scientific program committee: Eastern North American Region (ENAR 2014)
- **Program Chair:** American Statistical Association Section on Mental Health Statistics (MHS), 2012-2013
- **Program Chair:** American Statistical Association Interest Group on Mental Health Statistics (MHS), 2011-2012
- **Editorial Board:**
 - Biometrics (Associate Editor; 2019-present)
 - Journal of the American Statistical Association (Associate Editor; 2018-2020)
 - Shanghai Archives of Psychiatry (Biostatistics founding co-editor 2010 - 2012; Editorial Board Member 2010 – current)
 - Journal of Biometrics and Biostatistics (Editorial Board Member)
 - Hereditary Genetics (Editorial Board Member)
- **Study sections and grant review:**
 - NIMH Study Section “Mental Health Services Research Committee”, March 2024
 - NIMH IMPACT-MH RFA Review, October 2023
 - NINDS Huntington Disease Biospecimen Resource Access Committee (HD-BRAC), 2017–present

- NIMH Study Section “Mental Health Services Research Committee”, Standing Member, 2020-2023
- Research Grants Council of Hong Kong, China, Ad-hoc reviewer, 2022
- NIMH Study Section “Mental Health Services Research Committee”, Ad-hoc reviewer, November 2019
- NIMH Study Section “Confirmatory Efficacy Clinical Trials of Non-Pharmacological Interventions for Mental Disorders”, May 2019
- NIH Special Emphasis Panel “ITVC Conflicts 2011”, Feb. 9th, 2011
- Invited grant reviewer for Italian Ministry of Health, 2009
- Invited grant reviewer for the Netherlands Genomics Initiative (NGI), 2009

- **Memberships:**

- American Statistical Association, 2003 – present
- International Chinese Statistical Association, ICSA, 2011 – present
- International Biometrics Society, ENAR, 2011 – present

Administrative Leadership and Committees:

- PhD Program Director (2024-present). Department of Biostatistics, Columbia University.
- Subpanel Chair, Columbia University Promotion and Tenure Committee at Graduate School of Arts and Science, January 2024
- Co-Chair, Columbia University Medical Center Committee of Appointment and Promotion (COAP), 2021–2023
- Member, Departmental Faculty Review Committee 2022-2023
- Reviewer, Precision Medicine KL2 Training Program 2021
- Member, Columbia University Medical Center Committee of Appointment and Promotion (COAP), 2018–2021, 2023-2024
- Member: Department of Biostatistics Inference Qualifying Exam Committee, 2018–present
- Review Committee, Columbia University Data Science Institute Seed Fund 2019
- Chair, Departmental Faculty Recruit Committee, 2020-2021
- Co-Chair, Departmental Faculty Recruit Committee, 2019-2020
- Co-Chair, Department of Biostatistics Committee of Appointment and Promotion, 2023 – present
- Department of Biostatistics Committee of Appointment and Promotion, 2018 –present
- Department of Biostatistics Faculty Recruitment Committee, 2014–current
- Chair: Department of Biostatistics Inference Qualifying Exam Committee, 2015–2018
- Department of Biostatistics Research Advisory Committee, 2014–current
- Chair: Department of Biostatistics Awards Committee, 2014–2015
- Participant at the “TransCEER Workshop to Explore the Ethical, Legal, and Social Implications (ELSI) of Inclusivity and Representation in Precision Medicine” workshop, Jan 11-12, 2016
- Reviewer for the Mailman School Public of Health “Making New York City the Healthiest City in 2015” Contest

- Search Committee Chair, Recruitment of Research Assistant in the Division of Biostatistics at the Department of Psychiatry and New York State Psychiatric Institute
- Doctoral Program Subcommittee at the Department of Biostatistics at Columbia University
- Mailman School of Public Health Curriculum Renewal E-learning Subcommittee

Grant Support:

Active

- **Principal Investigator** (Contact PI: Wang, MPI: Ogden), “Research Training Program in Mental Health Biostatistics and Data Science”. T32MH135856. 2024-2029.
- **Principal Investigator**, “Machine Learning Methods for Optimizing Individualized Treatment Strategies for Precision Psychiatry”. R01MH123487. 2021-2026.
- **Principal Investigator**, “Statistical Methods for Integrating Mixed-type Biomarkers and Phenotypes in Neurodegenerative Disease Modeling”. R01NS073671. NINDS. 2017-2027.
- **Principal Investigator** (Contact PI: Zeng; MPI: Wang), “Statistical and Machine Learning Methods to Improve Dynamic Treatment Regimens Estimation Using Real World Data”. R01GM124104. NIGMS. 2018-2027.
- Co-Investigator (PI: Liu/Lee), “A Data Science Framework for Empirically Evaluating and Deriving Reproducible and Transferrable RDoC Constructs in Youth”. R01MH124106. 2020-2025.
- Co-Investigator (PI: Marder), “Clinical Research Sites for the Network of Excellence in Neuroscience Clinical Trials (NEURONEXT SITES)”. 2018-2023.
- Co-Investigator (PI: Haney/Arout), “Repeated Administration of Cannabis Varying in THC and CBD: Effects on Abuse Liability, Experimental Pain and Plasma Endocannabinoids”. 2022-2017. R01DA053332. 2022-2027.
- Co-Investigator (PI: Steinglass/Foerde), “No Way Around But Through: Mechanisms of Persistence and Remission of Habits in Anorexia Nervosa”. R01MH129350. 2022-2027.
- Co-Investigator (PI: Steinglass), “Neural predictors of outcome during relapse prevention treatment for anorexia nervosa”. R34MH12780. 2023-2025.
- Co-Investigator (PI: Haney), “Cannabis Relapse: Influence of Tobacco Cessation”. 5R01DA031005. 2010-2023.
- Co-Investigator (PI: Steinglass), “Optimizing Relapse Prevention and Changing Habits (REACH+) in Anorexia Nervosa”. R34MH127180. 2021-2024.

Complete

- Co-Investigator (PI: Lawrence), “Enrolling emergency psychiatry patients in clinical trials: the impact of inclusion and exclusion criteria”. Dollard Foundation Gift. 2022-2023.
- Co-Investigator (PI: Marder), “Targeting Lewy Body Specific Pathology Using Biomarkers”. U01NS100600. NINDS. 2016-2023.
- **Principal Investigator**, “Integrative Learning to Combine Evidence for Personalized Treatment Strategies”. R21MH117458. NIMH. 2018-2021.
- **Co-Principal Investigator** (Contact PI: Foltin), “Impulsivity in Cocaine Abusers: Relationship to Drug Taking and Treatment Outcome”. R01DA035846, NIDA. 2014-2020.
- **Principal Investigator**, “Identifying Huntington’s disease markers by modern statistical learning methods”. U01NS082062, NINDS. 2014-2018.

- Co-Investigator, "Optimizing Treatment of Complicated Grief", NIMH, 12/1/09-3/31/15, \$1,431,565, PI: Shear
- Co-Investigator, "Physical Activity in Anorexia Nervosa: Characteristics and Clinical Significance", NIMH, \$1,622,268, 07/01/08-06/30/13. PI: Walsh
- **Principal Investigator**, "Efficient Methods for Genotype-Specific Distribution with Unobserved Genotypes", NINDS, R01, NS073671, \$1,080,511. 2011-2016.
- **Co-Principal Investigator** (other PIs: Marder, Alcalay), "Penetrance of LRRK2 in the MJ Fox LRRK2 Cohort Consortium", Michael J Fox Foundation, \$295,521.
- Co-Investigator, "Complicated Grief Treatment in the Elderly", NIMH, 10/01/07-5/31/14, \$2,545,500, PI: Kathy Shear
- Co-Investigator, "Recovery After an Initial Schizophrenia Episode (RAISE)", NIMH, 7/1/2011-12/31/2013, \$3,634,499, PI: Lisa Dixon
- **Principal Investigator**, "Functional Data Analysis of Longitudinally Measured Genetic Traits", NIA, R03, AG031113-01A2, 06/15/09-05/30/12, \$132,000.
- Co-Investigator, "Addressing Fear of Food in Anorexia Nervosa", NIMH, 09/28/07-07/31/10, \$191,624, PI: Joanna Steinglass.
- Co-Investigator, "Maximizing Treatment Outcome in OCD", NIMH, 09/01/06-06/30/11, \$353,011, PI: Blair Simpson.
- Co-Investigator, "Imaging the Serotonin System in Obsessive Compulsive Disorder", NIMH, 09/01/06-8/31/10, \$225,000, PI: Blair Simpson.
- Statistician, "The Transition to Nicotine Dependence in Early Adulthood", NIDA, \$263,318, 03/01/09-08/31/09, PI: Denise Kandel
- Statistician, "Endothelial Dysfunction, Biomarkers, and Lung Function (MESA-Lung)", NIH (NHLBI), \$220,000, 08/1/04-08/31/06, PI: Graham Barr.
- Statistician, "Fish Oil, Biomarkers and Change in Lung Function", NIH (HL), \$423,225, 04/01/04-08/31/06, PI: Graham Barr.
- Statistician, "Genetic Epidemiology of Seizure Disorders in Rochester", NIH (NINDS), \$1,137,636, 8/02-08/31/06, PI: Ruth Ottman.
- Statistician, "Genetics of AD Partial Epilepsy with Auditory Features", NIH(NS), \$463,456, 12/02-08/31/06, PI: Ruth Ottman.
- Statistician, "Genetic Epidemiology of Parkinson's Disease", NIH (NIDDK), \$676,955, 07/04-08/31/06, PI: Karen Marder.
- Statistician, "New Approaches to Evaluation and Treatment of Acromegaly", NIH (NIDDK), \$220,000, 03/01/04-08/31/06, PI: Pamela Freda.
- Co-investigator, Cross-over Study of Patients with Primary Pulmonary Hypertension, Pilot Study Award, New York Presbyterian Hospital, \$50,000, 07/01/02-06/30/03, PI: Steve Kawut.

Teaching Experience and Responsibilities:

Classroom Teaching:

- Instructor Statistical Practice and Research for Interdisciplinary Sciences (SPRIS); Spring 2018–present
- Guest Lecturer Research Design and Analysis Class for T32 Fellows; 2014–present
- Instructor Introduction to Biostatistical Methods; Fall 2012, 2013

- Instructor Applied Regression Analysis; Spring 2007, 2008, 2009, 2010, 2011, 2012
- Instructor Introduction to Statistics; Spring 2003, Summer 2005

Mentoring:

Junior Faculty:

- Natalie Baries (co-Mentor, NIH K award; 2022-)
- Milenna Van Dijk (Statistics Mentor, NIH K award; 2022-)
- Lisa Ranzenhofer (Statistics Mentor, NIH K award; 2020-)
- Tanya Garcia (Mentor, NIH K award, 2016-2019)
- Talia Atkin (Statistics Mentor, NIH K award; 2015-2016)

Primary Doctoral Dissertation Advisor:

- 2023 - Current, Bin Yang In progress (Ph.D.)
 - ICHPS Student Paper Travel Award 2022
 - Chair's Award for Outstanding Master's Student 2022
- 2022 - Current, Zexi Cai In progress (Ph.D.)
 - ENAR Distinguished Student Paper Award 2023
 - ICSA International Meeting Student Paper Award 2023
- 2021 - Current, Jessica Lavery In progress (Dr.PH)
- 2021 - Current, Wenbo Fei In progress (Ph.D.)
 - ASA Risk Analysis Section Student Paper Award 2024

Post-Doctoral Research Scientists:

- Yuan Bian (2024-present)
- Yinjun Zhao (2024-present): Precision Medicine TL1 Postdoctoral Fellowship
- Boyi Hu (2023-present; co-mentor)
- Kai Kang (2022-2023; co-mentor): Current position: Assistant Professor, Sun Yat-Sen University, Guangzhou, China
- Xingche Guo (2021-2024). Current position: Assistant Professor, University of Connecticut
- Shanghong Xie (2019-2021). Current position: Assistant Professor, University of South Carolina
- Xiang Li (2015-2017). Principal Biostatistician, Janssen Research
- Andrew Sampkin (Co-host, September 2015-March 2016; funded by the Medical Research Council in the United Kingdom)

Past Doctoral Students:

- 2019 - 2024, Yinjun Zhao
 - Dissertation: Multi-level Latent Variable Models for Integrating Multiple Phenotypes for Mental Disorders

- First position: Precision Medicine TL1 Postdoctoral Fellow, Columbia University Irving Medical Center
- 2020 - 2023, Soohyun Kim
 - Dissertation: Machine Learning Methods for Intensive Longitudinal Data and Causal Inference in Multi-Study, Multi-Outcome Settings
 - First position: Postdoctoral Research Fellow, Weill Cornell Medical Center
- 2018-2022, Tianchen Xu
 - Dissertation: Statistical Methods for Learning Patients Heterogeneity and Treatment Effects to Achieve Precision Medicine
 - Recipient of Sanford Bolton-John Fertig Award for top doctoral dissertation in Biostatistics (2023)
 - First position: Senior Manager of Biostatistics, Bristol Myers Squibb
- 2017-2021, Qinxia Wang
 - Dissertation: Statistical Methods for Modeling Progression and Learning Mechanisms of Neuropsychiatric Disorders
 - Student Paper Awards: ASA Mental Health Statistics Section (2021); ASA Risk Analysis Section (2019)
 - First position: Principal Biostatistician, Novartis
- 2017-2021, Yuan Chen
 - Dissertation: Statistical and Machine Learning Methods for Personalized Medicine
 - Recipient of Sanford Bolton-John Fertig Award for top doctoral dissertation in Biostatistics (2022)
 - Student Paper Award: ASA Biometrics Section (2019)
 - First position: Assistant Member (equivalent to Assistant Professor in an academic institution), Memorial Sloan Kettering Cancer Center
- 2018 - 2021, Erin McDonnell
 - Dissertation: Dynamic graphical models and curve registration for high-dimensional time course data
 - Recipient of NIH/CTSA T32/TL1 Precision Medicine Fellow
 - Student Paper Award: First Prize, ASA Statistics in Imaging Section (2021)
 - Recipient of John Fleiss Award for an outstanding dissertation that advances statistical methods and their applications to biomedicine and public health (2022)
 - First Position: Data Scientist, Google.
- 2013 - 2019, Annie Lee
 - Dissertation: Statistical Methods for Genetic Studies with Family History of Diseases
 - Recipient of NIH/CTSA T32/TL1 Personalized Medicine Training Grant, 2014-2016
 - Recipient of NIH/NIA F31 Predoctoral Individual National Research Service Award, 2016-2019
 - Student Paper Award: ASA Korean International Statistical Society (KISS) 2018

- Current Position: Assistant Professor, Department of Neurology, Columbia University
- 2014 - 2019, Shanghong Xie
 - Dissertation: Statistical Methods for Constructing Heterogeneous Biomarker Networks
 - Student Paper Award: ICHPS 2018, ASA Mental Health Statistics Section (2020)
 - Dissertation: Statistical Methods for Constructing Heterogeneous Biomarker Networks
 - First Position: Assistant Professor, Southwestern University of Finance and Economics in China
- 2014 - 2019, Peng Wu
 - Dissertation: Machine Learning Methods in Personalized Medicine Using Electronic Health Records
 - First Position: Visa Inc.
- 2013 - 2018, Xin Qiu, Recipient of Dissertation Award
 - Dissertation: Statistical Learning Methods for Personalized Medicine
 - Recipient of the John Fleiss Award for an outstanding dissertation that advances statistical methods and their applications to biomedicine and public health (2019)
 - John Van Ryzin Award Distinguished Student Paper Award: ENAR 2019
 - Student Paper Award: ASA Mental Health Statistics Section (2016); ASA Statistical Learning and Data Science Section (2017)
 - First Position: Johnson & Johnson
- 2013 - 2018, Ming Sun
 - Dissertation: Statistical Methods for Modeling Biomarkers of Neuropsychiatric Diseases
 - Student Paper Award: ASA Mental Health Statistics Section (2018)
 - First Position: Google
- 2013 - 2018, Esther Drill
 - Dissertation: Statistical Methods for Integrated Cancer Genomic Data Using a Joint Latent Variable Model
 - First Position: Memorial Sloan Kettering Cancer Center
- 2011 - 2016, Ying Liu, Recipient of Dissertation Award
 - Dissertation: *Statistical Learning Methods for Personalized Medical Decision Making*
 - Student Paper Award: First Prize, Inaugural ASA Mental Health Statistics Section (2014); ASA Biopharmaceutical Section (2015)
 - First Position: Assistant Professor, Department of Biostatistics, Wisconsin Medical College
 - Current Position: Assistant Professor, Department of Biostatistics, Columbia University, and New York State Psychiatric Institute
- 2010 - 2014, Christine Mauro, Recipient of Dissertation Award
 - Dissertation: *Learning Logic Rules for Disease Classification: With an Application to Developing Criteria Sets for the Diagnostic and Statistical Manual of Mental Disorders*

- Current Position: Assistant Professor, Department of Biostatistics, Columbia University
- 2011 - 2014, Tianle Chen
 - Dissertation: *Statistical Modeling and Statistical Learning for Disease Prediction and Classification*
 - Jiann-Ping Hsu Pharmaceutical and Regulatory Sciences Student Paper Award for the ICSA (2013)
 - Current Position: Senior Statistician, Biogen
- 2007 - 2011, Huaihou Chen, Defended Ph.D. with Distinction (top 10%)
 - Dissertation: *Flexible Models and Methods for Longitudinal and Multilevel Functional Data*
 - Student Paper Award: ASA Biometrics Section (2012)
 - First Position (2013-2016): Assistant Professor, Department of Biostatistics, University of Florida
 - Current position: Senior Statistician, Biogen

Other mentoring activities:

- 2024, Charlotte Fowler Doctoral dissertation committee chair
- 2022, Ruiyang Li Doctoral dissertation committee
- 2022, Magaret Gacheru Doctoral dissertation committee chair
- 2022, Jia Guo Doctoral dissertation committee chair
- 2019, Ya Wang Doctoral dissertation committee chair
- 2018, Emily Zabor Doctoral dissertation committee chair
- 2018, Sharifa Barracks Doctoral dissertation committee chair
- 2017, Xinyu Hu Doctoral oral exam committee chair
- 2014, Xin Cheng Doctoral Dissertation Committee New York University
- 2014, Kristen Gore (Department of Statistics), Doctoral dissertation defense committee member
- 2014, Xuezhou Mao, Doctoral defense committee member
- 2014, Hui Zhou, Doctoral defense committee member
- 2013, Adam Carleigo, Doctoral defense committee chair
- 2013, Xiao Yu Mo, Master degree candidate, Research assistant
- 2013, Xingyuan Li, Master degree candidate, Research assistant
- 2013, Guangwei Qiu, Master degree candidate, Research assistant
- 2012, Faculty Mentor, Biostatistics Enrichment Summer Training (BEST)
- 2011, Faculty Mentor, Columbia Summer Research Institute (CSRI)
- 2011 - 2012, Jamie Weaver (Research Foundation of Mental Health), Master level biostatistician
- 2011 - 2012, April Myung (Research Foundation of Mental Health), High School Intern
- 2011-2012, Yin-Hsiu Chen (Statistics), Research Assistant

- 2010, Samima Habbsa (Biostatistics), Biostatistics Enrichment Summer Training (BEST)
- 2009 - 2011, Pei Wang (Biostatistics), Master's degree student
- 2009 - 2011, Sharifa Williams (Biostatistics), Master's degree student
- 2009 - 2011, Chiahui Huang (Statistics), Doctoral-level research assistant
- 2008 - 2011, Theresa Schwartz (Research Foundation of Mental Health), Master-level biostatistician
- 2009 - 2010, Yuanyuan Bao (Research Foundation of Mental Health), Master-level research assistant
- 2007 - 2010, Arman Altincatal (Biostatistics), Master's student
- 2008, Nanshi Sha (Biostatistics), Summer research assistant

Other Professional Activities

- External reviewer for tenure and non-tenure promotion cases at:
 - Boston University
 - Case Western Reserve University
 - Duke University
 - University of California at San Diego
 - University of Hong Kong
 - University of Illinois at Urbana Champaign
 - University of Massachusetts Amherst
 - University of Michigan
 - University of Pennsylvania
- Seminar organizer:
 - Division of Biostatistics Seminar at the Department of Psychiatry and New York State Psychiatric Institute, 2006, 2007
 - Department of Biostatistics Colloquium Organizer: 2010-2011 series
- Conference organizer:
 - Joint Statistical Meetings 2010 (Topic contributed session)
 - Meetings for the International Chinese Statistical Association (ICSA) 2011 (Invited session)
 - Joint Statistical Meetings 2012 (Invited session)
 - International Conference on Health Policy Statistics (ICHPS) 2015 (Invited session)
 - The 2015 FDA-Industry Workshop (Invited session)
 - The Fifth International Workshop in Sequential Methodologies 2015 (Invited session)
 - The 12th Annual Conference on Frontiers in Applied and Computational Mathematics 2016 (Invited session)
- Journal review:

Annals of Applied Statistics (AOAS); Annals of Statistics (AOS); Biometrics; Biometrika; Biostatistics; BMC Genetics; BMC Medical Genetics; BMC Medicine; Electronic Journal of Statistics; Human Heredity; Journal of the American Statistical Association (JASA); Journal of Biometrics and Biostatistics; Journal of Huntington's Disease; Journal of Machine Learning and

Research; Journal of Probability and Statistics; Journal of Psychiatric Research; JRSS-B; Nature Neuroscience; Neurodegenerative Disease Management; Pattern Recognition; Lancet Psychiatry; PLoS ONE; Nature Neuroscience; Scandinavian Journal of Statistics; Statistics in Medicine; Statistica Sinica; Statistical Applications in Genetics and Molecular Biology; The American Statistician.

Publications:

A. Original, peer-reviewed articles (In chronological order)

- **An asterisk (*) is used to indicate corresponding author or senior author**
 - **Current and former Ph.D. advisees, research assistants, and post-doctoral fellows are indicated by an underline**
1. Lawrence RE, Bernstein A, Jaffe C, Zhao Y, **Wang Y**, Goldberg TE. (2024) Eligibility for Substance Use Clinical Trials Among Emergency Psychiatry Patients: The Impact of Exclusion Criteria. *J Dual Diagn.* 16:1-9.
 2. Shi B, Liu Y, Xie S, Zhu X, **Wang Y**. (2024) Network-Assisted Mediation Analysis with High-Dimensional Neuroimaging Mediators. In press. *Proceedings of Machine Learning Research (PMLR)*. Machine Learning Conference on Healthcare. Toronto, Canada (peer-reviewed machine learning conference).
 3. McDonnell EI, Xie S, Marder K, **Wang Y*** (2024) Dynamic Gaussian Graphical Models for Time-Varying Clinical Symptom and Neuroimaging Networks. *Statistics in Medicine*. In press.
 4. Yang B, Guo X, Loh J, Wang Q, **Wang Y*** (2024). Learning Optimal Biomarker-Guided Treatment Policy for Chronic Disorders. *Statistics in Medicine*. In press.
 5. Liu M, **Wang Y**, Fu H, Zeng D. (2024). Learning Optimal Dynamic Treatment Regimens Subject to Stagewise Risk Controls. *Journal of Machine Learning Research*. In press.
 6. Xie W, Zeng D, **Wang Y**. (2024). Support vector machine for dynamic survival prediction with time-dependent covariates. *Annals of Applied Statistics*. 18 (3) 2166 - 2186.
 7. Xie S, Zeng D, **Wang Y*** (2024). Identifying Temporal Pathways Using Biomarkers in the Presence of Latent Non-Gaussian Components. *Biometrics*. In press.
 8. Bernstein A, Jaffe C, Zhao Y, **Wang Y**, Goldberg T, Lawrence R (2024). Clinical trials studying suicide risk reduction: who is excluded from participation. *Archives of Suicide Research*. In press.
 9. Xu T, Chen Y, Zeng D, **Wang Y*** (2024). Mixed-Response State-Space Model for Analyzing Multi-Dimensional Digital Phenotypes. *Journal of the American Statistical Association*. 118(554): 2288-2300.
 10. Lawrence RE, Bernstein A, Perez-Coste M, Zhao Y, **Wang Y**, Goldberg TE. (2024). Effectiveness trials in schizophrenia: Necessary. Sufficient? *Ann Clin Psychiatry*. In press.
 11. Wang Q, **Wang Y*** (2024). Multi-Layer Exponential Family Factor Models for Integrative Analysis and Learning Disease Progression. *Biostatistics*. 25(1): 203–219. [Github](#).
 12. Ghosh T, Ma Y, Zhu W, **Wang Y**. (2024). Learning non-monotone optimal individualized treatment regimes. *Statistica Sinica*. 34 (2024), 377-398.
 13. Gao D, **Wang Y**, Zeng D. (2024). Fusing Individualized Treatment Rules Using Secondary Outcomes. In *Advances in Neural Information Processing Systems (AISTAT)*. In press.
 14. Liu M, **Wang Y**, Fu H, Zeng D. (2023). Controlling Cumulative Adverse Risk in Learning Optimal Dynamic Treatment Regimens. *Journal of the American Statistical Association*. In press.

15. Guo X, Zeng D, **Wang Y*** (2023). A Semiparametric Inverse Reinforcement Learning Approach to Characterize Decision Making for Mental Disorders. *Journal of the American Statistical Association*. In press.
16. Wang Q, Loh J, He X, **Wang Y*** (2023). A Latent State Space Model for Estimating Brain Dynamics from Electroencephalogram (EEG) Data. *Biometrics*. 79(3): 2444-2457.
17. Steinglass JE, Fei W, Foerde K, Touzeau C, Ruggiero J, , Lloyd C, Attia E, **Wang Y**, Walsh BT. (2023). Change in food choice during acute treatment and the effect on longer-term outcome in patients with anorexia nervosa. *Psychological Medicine*. In press.
18. Bernstein A, Jaffe C, Zhao Y, **Wang Y**, Goldberg T, Lawrence R (2023). Eligibility of emergency psychiatry patients for clinical trials studying depression. *Journal of Affective Disorders*. 342(1):10-15.
19. Lou J, **Wang Y**, Li L, and Zeng D. (2023). Estimating individualized treatment rules for multi-category type 2 diabetes treatments using electronic health records. *Statistics and Its Interface*, 16(4): 595-515.
20. Gao F, **Wang Y**, Zeng D. (2023). Semiparametric Regression Analysis of Bivariate Censored Events in a Family Study of Alzheimer's Disease. *Biostatistics*. 24(1), 32–51.
21. Yu H, Zeng D, **Wang Y**. (2023). A general framework of nonparametric feature selection in high-dimensional data. *Biometrics*. 79(2):951-963.
22. Xie S, Wang W, Wang Q, **Wang Y**, Zeng D. (2022). Evaluating Effectiveness of Public Health Intervention Strategies for Mitigating COVID-19 Pandemic. *Statistics in Medicine*. 41(9), 3820-3836.
23. Cook L, Schulze J, Uhlmann W, Verbrugge J, Marder K, Lee A, **Wang Y**, Alcalay R, Nance M, Beck J. (2022). Tools for Communicating Genetic Risk for Parkinson's Disease. *NPJ Parkinson's Disease*. 8(164).
24. Steinglass JE, Attia E, Glasofer DR, **Wang Y**, Ruggiero J, Walsh BT, Thomas JG. (2022). Optimizing relapse prevention and changing habits (REACH+) in anorexia nervosa. *International Journal of Eating Disorders*. 55(6):851-857.
25. Xu T, Chen Y, Zeng D, **Wang Y*** (2022). Self-Matched Learning to Construct Treatment Decision Rules from Electronic Health Records. *Statistics in Medicine*. 41(17): 3434-3447.
26. Cramer EY, Ray EL, Lopez VK, ..., **Wang Y**, ..., Reich N. (2022). Evaluation of individual and ensemble probabilistic forecasts of COVID-19 mortality in the United States. *Proceedings of the National Academy of Sciences*, 119(15), e2113561119.
27. Xie S, McDonnell E, **Wang Y***. (2022). Conditional Gaussian Graphical Model for Estimating Personalized Disease Symptom Networks. *Statistics in Medicine*. 41(3):543-553.
28. Lee U, Carroll RJ, Marder K, **Wang Y**, Garcia TP. (2021). Estimating disease onset from change points of markers measured with error. *Biostatistics*, 22(4), 819-835.
29. Chen Y, Fei W, Wang Q, Zeng D, **Wang Y*** (2021). Dynamic COVID risk assessment accounting for community virus exposure from a spatial-temporal transmission model. *Advances in Neural Information Processing Systems (NeurIPS)*, 34.
30. McDonnell EI, **Wang Y**, Goldman J, & Marder K. (2021). Age of Onset of Huntington's Disease in Carriers of Reduced Penetrance Alleles. *Movement Disorders*, 36(12):2958-2961.
31. Foltin R, Luba R, Chen Y, **Wang Y**, Evans S. (2021). Impulsivity in cocaine users compared to matched controls: Effects of sex and preferred route of cocaine use. *Drug and Alcohol Dependence*. 226: 108840.

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148. Clark LN, Ross BM, **Wang Y**, Mejia-Santana H, Harris J, Louis ED, Cote LJ, Andrews H, Fahn S, Waters C, Ford B, Frucht S, Ottman R and Marder K (2007). Mutations in the Glucocerebrosidase gene are associated with Early-Onset Parkinson's disease. *Neurol.* 69:1270-1277. *Sole statistician on the study; Participated in design; Conducted all analyses of the study.*
149. Freda PU, Chung WK, Matsuoka N, Walsh JE, Kanibir MN, Kleinman G, **Wang Y**, Bruce JN and Post KD (2007). Analysis of GNAS mutations in 60 growth hormone secreting pituitary tumors: correlation with clinical and pathological characteristics and surgical outcome based on highly sensitive GH and IGF-I criteria for remission. *Pituitary.* 10(3):275-82. PMID: 17594522. *Sole statistician on the study; Participated in design; Conducted all analyses of the study.*
150. Gordon PH, **Wang Y**, Doorish C, Lewis M, Battista V, Mitsumoto H and Marder K (2007). A screening assessment of cognitive impairment in patients with ALS. *Amyotroph Lateral Scler.* 8(6):362-365. PMID: 17852014. *Sole statistician on the study; Participated in design; Conducted all analyses of the study.*
151. Wang S, Zheng T and **Wang Y**. (2007). Transcription activity hotspot, is it real or an artifact? *BMC Genet.* Suppl 1:S94. PMID: 18466598
152. **Wang Y***, Clark LN, Marder K and Rabinowitz D (2007). Non-parametric estimation of genotype-specific age-at-onset distributions from censored kin-cohort data. *Biometrika.* 94(2):403-414.
153. **Wang Y***, Fang Y and Jin M. (2007). A ridge penalized principal-components approach based on heritability for high-dimensional data. *Hum Hered.* 64(3):182-91. PMID: 17536212
154. **Wang Y***, Fang Y and Wang S. (2007). Clustering and principal component analysis for mapping co-regulated genome-wide variation using family data. *BMC Genet.* Suppl 1:S121. PMID: 18466463.

155. **Wang Y***, Ottman R, and Rabinowitz D (2006). A method for estimating penetrance from families sampled for linkage analysis. *Biometrics*. 62: 1081-88. PMID: 17156282.
156. Clark LN, Afridi S, Karlins E, **Wang Y**, Mejia-Santana H, Harris J, Louis ED, Cote LJ, Andrews H, Fahn S, Waters C, Ford B, Frucht S, Ottman R, and Marder K (2006). Case-control study of the Parkin gene in early onset PD. *Arch Neurol*. 63(4): 548-52. PMID: 16606767. *Sole statistician on the study; Participated in design; Conducted all analyses of the study.*
157. Clark LN, **Wang Y**, Karlins E, Saito L, Mejia-Santana H, Harris J, Louis ED, Cote LJ, Andrews H, Fahn S, Waters C, Ford B, Frucht S, Ottman R and Marder K (2006). Frequency of LRRK2 mutations in early- and late-onset Parkinson disease. *Neurol*. 67(10): 1786-91. *Sole statistician on the study; Participated in design; Conducted all analyses of the study.*
158. Yip N, Kawut SM, Lederer DJ, Wilt JS, **Wang Y**, Sternberg D, D'Ovidio F, Sonett JR and Arcasoy SM (2006). Immunoglobulin G levels before and after lung transplantation. *Am J Respir Crit Care Med*. 173(8):917-21. PMID: 16399990. *Sole statistician on the study; Participated in design; Conducted all analyses of the study.*

B. Abstracts and Posters

1. Skritskaya, N., Mauro, C., O'connor, M., **Wang, Y.**, Simon, N., Bui, E., Robinaugh, D., Sidney Zisook, S., Reynolds, C.F., Shear, M.K. (2013, November). Assessing Separation Distress in Complicated Grief. Symposium presentation at the 29th Annual Meeting of the International Society for Traumatic Stress Studies, Philadelphia, PA.
2. Shear, M., Ghesquiere, A., **Wang, Y.**, Mauro, C. (2013, April). Associations Between Social Support and Complicated Grief. Symposium presentation at the annual meeting of the Anxiety and Depression Association of America, La Jolla, CA.
3. Zisook, S., Shear, M., Simon, N., Duan, N., Young, I., Baker, K., Reynolds, C., **Wang, Y.**, Mauro, C. (2013, April). Suicide Loss Survivors and Complicated Grief. Symposium presentation at the annual meeting of the Anxiety and Depression Association of America, La Jolla, CA.
4. Shear, M., Bui, E., Skritskaya, N., Campbell, B., **Wang, Y.**, Mauro, C., Simon, N. (2013, April). State Attachment Style in Patients with Complicated Grief. Symposium presentation at the annual meeting of the Anxiety and Depression Association of America, La Jolla, CA.
5. Bui, E., Simon, N., Robinaugh, D., LeBlanc, N., Wang, Y., Skritskaya, N., Mauro, C., Shear, K. (2013, April). Peri-Loss Dissociation, Symptom Severity and Treatment Response in Complicated Grief. Symposium presentation at the annual meeting of the Anxiety and Depression Association of America, La Jolla, CA.
6. Mauro C, Chen H, **Wang Y**, Zeng D, Duan N, Shear K. (2012, May) Auxiliary Marker-Assisted Statistical Learning Approaches with an application to Prediction of Complicated Grief in the Absence of a Gold Standard. First Annual Thomas R. Ten Have Symposium on Statistics in Psychiatry. Philadelphia, PA.
7. Duan, N, Lebowitz B, Reynolds C, Simon N, **Wang Y**, Zisook S, Shear K. (2011, December) Factorial Clinical Trials for Hybrid (Explanatory and Pragmatic) Research Studies: Design of Optimizing Treatment for Complicated Grief. Poster presentation at the annual meeting of the American College of Neuropsychopharmacology, Waikoloa, HI.
8. Skritskaya, N., Mauro, C., **Wang, Y.**, Rooney, M. (2012, April). Suicidality in patients with Complicated Grief with and without anxiety and mood comorbidity. Symposium presentation at the annual meeting of the Anxiety and Depression Association of America, Arlington, VA. Poster presentation at the annual meeting of the American College of Neuropsychopharmacology, Waikoloa, HI.

9. Shear K, Skritskaya, N, Duan N, Mauro C, **Wang Y**, Lebowitz B, Reynolds C, Simon N, Zisook S, Glickman K, Guesquiere A, Worthington J, LeBlanc N, Young IT (2011, December) Suicide, depression and complicated grief. Poster presentation at the annual meeting of the American College of Neuropsychopharmacology, Waikoloa, HI.
10. **Wang Y**, and Chen H. On testing a nonparametric function through penalized splines with applications to large scale genome-wide association studies. *Statistical methods for very large data sets conference*. June 1-3, 2011, Baltimore, USA.
11. Klein D, Siegel M, Grunebaum Z, **Wang Y**, Chen H, and Wlsh T. Leptin in Anorexia Nervosa: Relationship to Physical Activity and Weight Suppression. SSIB 2011. *19th Annual Meeting of the Society for the Study of Ingestive Behavior*. July 12-16, 2011 Clearwater, Florida, Abstract.
12. Ottman R, Crockford GP, **Wang Y**, Winawer MR, Choi H, Hauser WA. Genome-wide linkage analysis in ADPEAF families without mutations in LGI1. *American Epilepsy Society Meeting*, San Antonio, 2010.
13. Lebowitz B, **Wang Y**, Duan N, Reynolds, C, Simon N, Zisook, S, and Shear K. Randomization strategies for clustered clinical syndromes: effects on statistical power. *The International Society for Clinical Trials and Methodology 7th Annual Meeting*, October 13-14, 2010, Baltimore, Poster. **Winner of Distinguished Poster Award**.
14. Mesia-Vela S, Chih-Ching Y, Powell C, **Wang Y**, Austin J, Austin J and Santell R, and Barr G. Plasma markers of oxidative protein damage do not correlate with lung function and COPD in smokers. European Respiratory Society Annual Congress 2006, September 2-6, 2006. Munich, Germany
15. Clark LN, Karlins E, **Wang Y**, Mejia-Santana H, Harris J, Louis ED, Cote LJ, Andrews H, Fahn S, Waters C, Ford B, Frucht S, Ottman R, and Marder K (2007). Frequency of the LRRK2 mutation, Gly2019Ser, in A North American Jewish Parkinson's Disease Population. *Movement Disorder* 21(Suppl 13): S53-54.
16. Clark LN, **Wang Y**, Mejia-Santana H, Harris J, Louis ED, Cote LJ, Andrews H, Fahn S, Waters C, Ford B, Frucht S, Ottman R, and Marder K (2006). Mutations in the Glucocerebrosidase Gene and Parkinson's Disease. *American Academy of Neurology 58th Annual Meeting*, April 1-8, 2006, San Diego, Abstract.
17. Gordon PH, Doorish C, Battista V, Lewis M, **Wang Y**, Rowland LP, Honig LS, Marder K, Mitsumoto H (2006). Measures and Impact of Cognitive Impairment in Patients with Amyotrophic Lateral Sclerosis. *American Academy of Neurology 58th Annual Meeting*, April 1-8, 2006, San Diego, Abstract.
18. Madsen A, **Wang Y**, Winower M, Hauser WA, Barker-Cummings C, and Ottman R. Linkage Analysis in Families with Generalized Epilepsy and Febrile Seizures Plus. *American Society of Human Genetics 55th Annual Meeting*, October 25-59, 2005, Salt Lake City, Poster.
19. Marder K, **Wang Y**, Clark L, Mejia Santana H, Harris J, Louis E, Cote L, Fahn S, Andrews H, Waters C, Ford B, Frucht S and Ottman R (2006). Contribution of Parkin to familial aggregation of early-onset PD. *Ann Neurol* 60(Suppl 3): S72
20. Sysko R, **Wang Y**, Duan N, and Walsh T (2008). Early response to antidepressant treatment in Bulimia Nervosa. 42nd Annual Convention of the Association for Behavioral and Cognitive Therapies. Nov 13-16, 2008. Orlando, FL.
21. Xie S, Wang W, Wang Q, **Wang Y***, Zeng D. (2021). Evaluation of Effectiveness of Mitigation Strategies for COVID-19 Pandemic. Data Science Day at Columbia University Data Science Institute, 4/21/2021 (virtual). Poster.

C. Book Chapters, Reviews and Commentaries

1. Qiu X, Zeng D, **Wang Y.** (2023). Integrative Learning to Combine Individualized Treatment Rules from Multiple Randomized Trials. In *Precision Medicines: Methods and Applications*. In press. Edited by Yichuan Zhao and Ding-Geng Chen.
2. Chen Y, Liu Y, Zeng D, **Wang Y.** (2019). Statistical Learning Methods for Optimizing Dynamic Treatment Regimes in Subgroup Identification. (Chapter 11 in *Design and analysis of Subgroups with Biopharmaceutical Applications*). Edited by Naitee Ting, Joseph C. Cappelleri, Shuyen Ho, and Ding-Geng Chen.
3. Garcia T, Marder K, **Wang Y.** (2017). Statistical Modeling of Huntington Disease Onset. (Chapter 4 in *Handbook of Clinical Neurology on Huntington's disease*). 144, 47-61. Edited by Andrew Feigin and Karen E. Anderson.
4. Duan N, and **Wang Y.** (2012). Heterogeneity of treatment effects. *Shanghai Journal of Psychiatry*. In press. 24(1): 54-55.
5. ***Wang Y** and Duan N. (2011). Analysis of repeated outcome measures from longitudinal studies. *Shanghai Journal of Psychiatry*. 23(4): 252-254.
6. ***Wang Y** and Duan N. (2011). Effect size for dichotomous outcome measures. *Shanghai Journal of Psychiatry*. 23(3): 184-186.
7. Duan N, and **Wang Y.** (2011). Effect size for continuous outcome measures. *Shanghai Journal of Psychiatry*. In press. 23(2): 120-123.
8. Duan N, and **Wang Y.** (2011). Significance test and confidence intervals. *Shanghai Journal of Psychiatry*. 23(1): 60-61.

Invited and Topic-Contributed Talks:

1. Aug. 2005, Joint Statistical Meetings, Minneapolis, MN. (Topic contributed)
2. Nov. 2005, Division of Biostatistics, Ohio State University. (Invited)
3. Jan. 2006, Department of Medical and Molecular Genetics, Indiana University Purdue University at Indianapolis. (Invited)
4. Feb. 2006, Department of Biostatistics, Columbia University. (Invited)
5. Mar. 2006, Department of Health Research and Policy, Stanford University. (Invited)
6. Apr. 2006, Department of Environmental Medicine, New York University. (Invited)
7. Jan. 2007, Columbia University Genetic Epidemiology Seminar. (Invited)
8. Dec. 2008, New York State Psychiatric Institute. (Invited)
9. Jul. 2009, First International Conference on the Interface between Statistics and Engineering, Beijing, China. (Contributed)
10. Nov. 2009, Department of Statistics, Penn State University. (Invited)
11. Feb. 2010, Symposium on Frontiers in the Interface between Statistics and Genetics, Hershey, Pennsylvania. (Invited)
12. Apr. 2010, Department of Biostatistics, Yale University. (Invited)
13. Aug. 2010, Joint Statistical Meetings, Vancouver, Canada (Topic contributed; Organizer)
14. Feb. 2011, Department of Mathematical Sciences, New Jersey Institute of Technology (Invited)
15. Apr. 2011, Department of Statistics, Texas A&M University. (Invited)
16. Apr. 2011, Department of Mathematics and Statistics, Georgia State University. (Invited)

17. Jun. 2011, International Chinese Statistical Association Applied Statistics Symposium. (Organizer; Invited Speaker)
18. Nov. 2011, Department of Statistics, North Carolina State University (Invited)
19. June, 2012, International Chinese Statistical Association Applied Statistics Symposium. (Invited)
20. Aug. 2012, Joint Statistical Meetings, San Diego, USA. (Organizer; Invited)
21. Nov. 2012, Department of Statistics, Columbia University (Invited student seminar)
22. Feb. 2013, Division of Biostatistics & Epidemiology, Department of Public Health, Weill Medical College, Cornell University (Invited)
23. Feb. 2013, NIH Workshop on Huntington's Disease Biomarkers and Clinical Diagnostics (Invited)
24. Mar. 2013, Department of Biostatistics, University of North Carolina at Chapel Hill (Invited)
25. June 2013, Institute of Mathematical Statistics International Conference on Statistics and Probability, Chengdu, China (Invited)
26. July 2013, The Second Taihu International Statistics Forum, Suzhou, China (Invited)
27. Aug. 2013, Joint Statistical Meetings, Montreal, Canada (Invited)
28. Oct. 2013, Department of Biostatistics, Rutgers University (Invited)
29. Nov. 2013, Department of Biostatistics and Bioinformatics, University of Rochester (Invited)
30. Mar. 2014, Eastern North American Region Meetings (Invited)
31. May 2014, Frontiers in Applied and Computational Mathematics (NJIT, Invited)
32. June 2014, International Chinese Statistical Association Applied Statistics Symposium. (Invited)
33. August 2014, Joint Statistical Meetings (Topic Contributed)
34. Nov. 2014, US Food and Drug Administration (FDA, Invited seminar)
35. August 2015, Joint Statistical Meetings, Seattle, USA (Invited)
36. October 2015, International Conference on Health Policy and Statistics, Providence, RI (Invited)
37. March 2016, Eastern North America Region (ENAR) Meetings (Invited)
38. April 2016, Advances and Challenges in Measurement Error Problems and Other Complex Data Workshop, College Station, Texas (Invited)
39. June 2016, Fifth Annual Thomas R. Ten Have Symposium on Statistics in Mental Health, Philadelphia, PA (Invited)
40. June 2016, Statistical Learning and Data Science Conference, Chapel Hill, NC (Invited)
41. October 2016, IEEE International Conference on Healthcare Informatics: ICHI 2016, Chicago, IL (Invited)
42. November 2016, Department of Biostatistics, Wisconsin Medical College (Invited)
43. December 2016, The 10th ICOSA International Conference on Global Growth of Modern Statistics in 21st Century, Shanghai, China (Invited)
44. March 2017, Eastern North America Region (ENAR) Meetings, Washington D.C. (Invited)
45. April 2017, Department of Biostatistics, Boston University (Invited), Boston, MA

46. May 2017, Department of Epidemiology and Biostatistics, Memorial Sloan Kettering Cancer Center, New York, NY (Invited)
47. May 2017, Mid-Atlantic Causal Inference Conference, Chapel Hill, NC (Invited)
48. June 2017, IMS China Applied Symposium, Nanning, Guangxi, China (Invited)
49. July 2017, Workshop on Design of Healthcare Studies, Singapore National University (Invited)
50. July 2017, Department of Statistics, Hongkong University, Hongkong, China (Invited)
51. Oct 2017, NIH Huntington's Disease Biomarker Workshop (Invited Participant and Poster Presentation), Washington D.C.
52. Oct 2017, Keynote Speaker, Novartis Biostatistics Conference (Invited), East Hanover, New Jersey
53. Nov 2017, Department of Biostatistics, Yale University (Invited)
54. December 2017, 10th International Conference of the ERCIM WG on Computational and Methodological Statistics, London, England (Invited)
55. March 2018, Eastern North America Region (ENAR) Meetings, Atlanta, Georgia (Invited)
56. June 2018, Conference on Statistical Learning and Data Science, New York, New York (Invited)
57. June 2018, International Chinese Statistical Association Applied Statistics Symposium, New Brunswick, New Jersey (Invited)
58. August 2018, Joint Statistical Meetings (JSM), Vancouver, Canada (Invited)
59. October 2018, Data Science and Advanced Analytics (DSAA), Turin, Italy (Invited)
60. December 2018, 11th International Conference of the ERCIM WG on Computational and Methodological Statistics, Pisa, Italy (Invited)
61. March 2019, Eastern North America Region (ENAR) Meetings of International Biometrics Society, Philadelphia, Pennsylvania (Invited)
62. May 2019, Department of Population Health, New York University (Invited)
63. May 2019, Conference on Lifetime Data Science: Foundations and Frontiers, Pittsburgh, Pennsylvania (Invited)
64. June 2019, Applied Statistics Symposium of ICSA, Raleigh, North Carolina (Invited)
65. August 2019, Joint Statistical Meetings, Denver, Colorado (Invited)
66. August 2019, The VIth International Symposium on Biopharmaceutical Statistics (Topic-contributed), August 26-30, Kyoto, Japan
67. December 2019, The 11th ICSA International Conference, December 20-22, Hangzhou, China (Invited)
68. March 2020, Eastern North America Region (ENAR) Meetings of International Biometrics Society, virtual meeting (Invited)
69. June 2020, Department of Biostatistics, Peking University (Invited), virtual seminar.
70. November 2020, Department of Biostatistics, University of Pennsylvania (Invited), virtual seminar.
71. November 2020, Department of Statistics, Penn State University (Invited), virtual seminar.

72. December 2020, Leadership Panel, The Applied Statistics Symposium ICSA, December 13-16, virtual meeting (Invited, virtual)
73. March 2021, Eastern North America Region (ENAR) Meetings of International Biometrics Society, virtual meeting (Invited, virtual)
74. June 2, 2021. Analytic Methods Core Meeting of the Mental Health Research Network. (Invited, virtual)
75. June 28, 2021, National Institute of Mental Health Workshop on Advanced Statistical Methods and Dynamic Data Visualizations for Mental Health Studies (Invited, virtual)
76. August 10, 2021. Joint Statistical Meetings. (Invited, virtual meeting)
77. September 13, 2021. ICSA Applied Symposium (Invited, virtual meeting).
78. November 2, 2021. State University of New York at Binghamton. (Invited, virtual seminar)
79. February 15, 2022. Yale University. (Invited, virtual seminar)
80. March 29, 2022. Eastern North America Region (ENAR) Meetings of International Biometrics Society (Invited).
81. June 2022. Applied Statistics Symposium, ICSA. Gainesville, Florida. (Invited)
82. August 2022. Joint Statistical Meetings. Washington DC. (Invited)
83. September 19-20, 2022. Second Penn Conference on Big Data in Biomedical and Population Health Sciences, Philadelphia. (Invited)
84. March 19-22, 2023. Eastern North America Region (ENAR) Meetings of International Biometrics Society (Invited).
85. May 5-7, 2023. The 8th Workshop on Biostatistics and Bioinformatics. Atlanta, GA (Invited).
86. May 31-June 2, 2023. Lifetime Data Science Section Conference. Raleigh, NC (Invited).
87. June 27, 2023. Departmental Seminar, Department of Biostatistics, City University of Hong Kong. Hong Kong, China (Invited).
88. July 7-9, 2023. ICSA International Conference. Hong Kong, China (Invited).
89. August 5-10, 2023. Joint Statistical Meetings (JSM). Toronto, Canada (Invited).
90. December 4-8, 2023. Deming Conference for Applied Statistics. Philadelphia, USA. (Invited Tutorial on Precision Medicine).
91. February 11-16, 2024. Statistical Aspects of Trustworthy Machine Learning. Banff International Research Station (BIRS) Banff, Canada (Invited).
92. May 22-24, 2024. The 37th New England Statistical Symposium (NESS 2024). Storrs, CT (Invited).
93. June 10-11, 2024. 2024 Annual Symposium on Risks and Opportunities of AI in Pharmaceutical Medicine. Boston, MA (Invited).
94. July 9-10, 2024. Fifth International Workshop on Statistical Analyses of Multi-Outcome Data. Salzburg, Austria (Invited).
95. August 3-8, 2024. Joint Statistical Meetings. Portland, Oregon (Invited).