

Yuanjia Wang

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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 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 Medical Center, Columbia University,
- Core Faculty Member, 2006-current
Division of Biostatistics, New York State Psychiatric Institute

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:

- 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

Research interests:

- Statistical learning and risk prediction for large scale biomedical data
- Personalized medicine and design and analysis of clinical trials and cohort studies
- Efficient semiparametric and nonparametric estimation of disease risk associated with a genetic mutation
- Statistical challenges encountered in research of psychiatric and neurological disorders

Professional Organizations, Societies and Services:

- 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:
 - Journal of the American Statistical Association (Associate Editor)
 - Shanghai Archives of Psychiatry (Biostatistics co-Editor 2010 - 2012; Editorial Board Member 2010 – current)
 - Journal of Biometrics and Biostatistics (Editorial Board Member)
 - Hereditary Genetics (Editorial Board Member)
- Memberships:
 - American Statistical Association, 2003 – present
 - International Chinese Statistical Association, ICSA, 2011 – present
 - International Biometrics Society, ENAR, 2011 – present

Departmental and University Committees:

- Columbia University Medical Center Committee of Appointment and Promotion, 2018–
- Department of Biostatistics Committee of Appointment and Promotion, 2018 –

- Department of Biostatistics Faculty Recruitment Committee, 2014–current
- Department of Biostatistics Inference Qualifying Exam Committee Chair, 2015–2018
- Department of Biostatistics Research Advisory Committee, 2014–current
- Department of Biostatistics Awards Committee Chair, 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**, “Statistical Methods for Early Disease Prediction and Treatment Strategy Estimation Using Biomarker Signatures”. R01NS073671. NINDS. 2017-2021.
- **Principal Investigator**, “Integrative Learning to Combine Evidence for Personalized Treatment Strategies”. R21MH117458. NIMH. 2018-2020.
- **Co-Principal Investigator** (Contact PI: Zeng), “Efficient Statistical Learning Methods for Personalized Medicine Using Large Scale Biomedical Data”. R01GM124104. NIGMS. 2018-2022.
- **Co-Principal Investigator** (Contact PI: Foltin), “Impulsivity in Cocaine Abusers: Relationship to Drug Taking and Treatment Outcome”. R01DA035846, NIDA. 2014-2019.
- Co-Investigator (PI: Shear), “GREAT-SF (Grief REsilience Activities and Training For Surviving Families): An Online Selective Intervention for Bereaved Military Families”. W81XWH-15 DOD. 2015-2019.
- Co-Investigator (PI: Steinglass), “Neural Mechanisms of Food Choice in Anorexia Nervosa”. R01MH105452. 2015-2019.
- Co-Investigator (PI: Marder), “Targeting Lewy Body Specific Pathology Using Biomarkers”. U01NS100600. NINDS. 2016-2019.

Complete

- **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 (new course for doctoral students)
- 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:

- Tanya Garcia (Mentor, NIH K award, 2016-current)

Primary Doctoral Dissertation Advisor:

- 2017 - Current, Yuan Chen, In progress (Ph.D.)
- 2017 - Current, Qinxia Wang, In progress (Ph.D.)
- 2015 - Current, Shanghong Xie, In progress (Ph.D.)
- 2015 - Current, Peng Wu, In progress (Ph.D.)
- 2014 - Current, Annie Lee, In progress (Ph.D.)
 - 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

Past Post-Doctoral Research Scientist:

- Xiang Li (Primary mentor; 2015-2017)
- Andrew Sampkin (Co-host, September 2015-March 2016; funded by the Medical Research Council in the United Kingdom)

Past Doctoral Students:

- 2014 - 2018, Xin Qiu
 - Dissertation: Statistical Learning Methods for Personalized Medicine
 - Current Position: Johnson & Johnson
- 2014 - 2018, Ming Sun
 - Dissertation: Statistical Methods for Modeling Biomarkers of Neuropsychiatric Diseases
 - Current Position: Google
- 2013 - 2018, Esther Drill
 - Dissertation: Statistical Methods for Integrated Cancer Genomic Data Using a Joint Latent Variable Model

- Current Position: Memorial Sloan Kettering Cancer Center
- 2007 - 2011, Huaihou Chen, Defended Ph.D. with Distinction (top 10%)
 - Dissertation: *Flexible Models and Methods for Longitudinal and Multilevel Functional Data*
 - Former Position (2013-2016): Assistant Professor, Department of Biostatistics, University of Florida
 - Current position: Senior Statistician, Biogen
- 2011 - 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*
 - Current Position: Senior Statistician, Biogen
- 2013 - 2016, Ying Liu, Recipient of Dissertation Award
 - Dissertation: *Statistical Learning Methods for Personalized Medical Decision Making*
 - Current Position: Assistant Professor, Department of Biostatistics, Medical College of Wisconsin

Other mentoring activities:

- 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), 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 degree student
- 2008, Nanshi Sha (Biostatistics), Summer research assistant
- 2008 Aolin Xie (Psychology), Summer research assistant

Other Professional Activities

- External reviewer for tenure promotion cases at:
 - University of Michigan
 - University of Massachusetts Amherst
 - Case Western Reserve University
 - University of Hong Kong
- Grant review:
 - NIMH Study Section “Confirmatory Efficacy Clinical Trials of Non-Pharmacological Interventions for Mental Disorders”, 2019
 - NINDS Huntington Disease Biospecimen Resource Access Committee (HD-BRAC), 2017–present
 - NIH Special Emphasis Panel “ITVC Conflicts 2011”, Feb. 9th, 2011
 - Invited grant reviewer for Italian Ministry of Health, 2009
 - Invited as a grant reviewer for The Netherlands Genomics Initiative (NGI)
- 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 correspondence author or senior author***
- ***Current and former Ph.D. advisees, research assistants and post-doctoral fellows are indicated by an underline***

Statistical Methodology Publications:

1. Mauro C, Shear MK, **Wang Y***. (2019) Integrating Multiple-Domain Rules for Disease Classification. *Statistics in Medicine*. In press.
2. Qiu X, **Wang Y***. (2019). Composite Interaction Tree for Simultaneous Learning Optimal Individualized Treatment Rules and Subgroups. *Statistics in Medicine*. In press.
3. Gao F, **Wang Y**, and Zeng D. (2019). Early Diagnosis of Neurological Disease Using Peak Degeneration Ages of Multiple Biomarkers. *Annals of Applied Statistics*. In press.
4. Wu P, Zeng D, **Wang Y***. (2019). Matched Learning for Optimizing Individualized Treatment Strategies Using Electronic Health Records. *Journal of the American Statistical Association*. In press.
5. Sun M, **Wang Y***. (2019). Nonlinear Model with Random Inflection Points for Modeling Neurodegenerative Disease Progression. *Statistics in Medicine*. In press.
6. Garcia T, Marder K, **Wang Y***. (2019). Time-varying Proportional Odds Model for Mega-analysis of Clustered Event Times. *Biostatistics*. 20:1, 129-146.

7. Li X, Xie S, McColgan P, Tabrizi S, Scahill R, Zeng D, **Wang Y***. (2018). Learning Directed Acyclic Graphs with Mixed Effects Structural Equation Models from Observational Data. *Frontiers in Genetics*. 9:430.
8. Li X, Li Q, Zeng D, Marder K, Paulsen J, **Wang Y*** (2018). Time-varying Hazards Model for Incorporating Irregularly Measured, High-Dimensional Biomarkers. *Statistica Sinica*. In press.
9. Zhou X, **Wang Y**, Zeng D. (2018). Outcome-Weighted Learning for Personalized Medicine with Multiple Treatment Options. IEEE Proceedings on Data Science and Advanced Analytics. Turin, Italy, 2018. In press.
10. Liu Y, **Wang Y**, Kosorok M, Zhao Y, Zeng D. (2018). Augmented Outcome-weighted Learning for Estimating Optimal Dynamic Treatment Regimens. *Statistics in Medicine*. 37:3776-3788.
11. Li X, Zeng D, Marder K, **Wang Y*** (2018). Constructing Disease Onset Signatures Using High-Dimensional Network-Structured Biomarkers. *Biostatistics*. In press.
12. Liang B, **Wang Y***, Zeng D. (2018). Semiparametric Transformation Models with Multilevel Random Effects for Correlated Disease Onset in Families *Statistica Sinica*. In press.
13. **Wang Y**, Fu H, Zeng D. (2018). Learning Optimal Personalized Treatment Rules under Risk Constraint. *Journal of the American Statistical Association*. 113:521, 1-13.
14. Qiu X, Zeng D, **Wang Y***. (2018). Estimation and Evaluation of Linear Individualized Treatment Rules to Guarantee Performance. *Biometrics*. 74, 517-528.
15. Li X, Xie S, Zeng D, **Wang Y***. (2018). Efficient ℓ_0 -norm feature selection based on augmented and penalized minimization. *Statistics in Medicine*. 37:473-486.
16. Lee A, Marder K, Alcalay R, Bressman S, Orr-Urtreger A, Giladi N, **Wang Y***. (2017). Estimation of Genetic Risk Function with Covariates in the Presence of Missing Genotypes. *Statistics in Medicine*. 36(22):3533-3546.
17. Xu K, Ma Y, **Wang Y**. (2017). Nonparametric Distribution Estimation in the Presence of Familial Correlation and Censoring. *Electronic Journal of Statistics*. 11(1), 1928-1948.
18. Garcia T, Ma Y, Marder K, **Wang Y***. (2017). Robust mixed-effects model for clustered failure time data: Application to Huntington's disease event measures. *Annals of Applied Statistics*. 11(2), 1085-1116.
19. Chen H, Zeng D, **Wang Y***. (2017) Penalized Nonlinear Mixed Effects Model to Identify Biomarkers that Predict Disease Progression. *Biometrics*. 73(4):1343-1354. PMID: 28182831 DOI: 10.1111/biom.12663
20. Wang Q, Ma Y, **Wang Y**. (2017). Predicting disease Risk by Transformation Models in the Presence of Unspecified Subgroup Membership. *Statistica Sinica*. 27(4), 1857.
21. Liu Y, **Wang Y***, Huang C, Zeng D. (2017). Estimating Individualized Diagnostic Rules in the Era of Personalized Medicine. *Statistics in Medicine*. 36(7):1099-1117. PMID: 27917508
22. Liu Y, **Wang Y**, Zeng D (2017). Sequential Multiple Assignment Randomization Trials with Enrichment for Dynamic Treatment Regimes. *Biometrics*. 73(2):378-390. PMID: 27598622 PMCID: PMC5339073

23. **Wang Y***, Wu P, Liu Y, Weng C, and Zeng D. (2016). Learning optimal individualized treatment rules from electronic health records data. *IEEE International Conference on Healthcare Informatics: ICHI 2016 Proceedings: 4-7 October 2016, Chicago, Illinois, USA.*, 65-71. DOI 10.1109/ICHI.2016.13. PMID: 28503676 PMCID: PMC5423731
24. **Wang Y***, Chen T, Zeng D (2016). Support Vector Hazards Machine: A Counting Process Framework for Learning Risk Scores for Censored Outcomes. *Journal of Machine Learning Research*. 17(167):1-37.
25. Liu Y, **Wang Y***, Feng Y*, Wall M (2016). Variable Selection and Prediction with Incomplete High-dimensional Data. *Annals of Applied Statistics*. 10:418-450. PMID: 27213023.
26. Liang B, Tong X, Zeng D, **Wang Y** (2016). Semiparametric Regression Analysis of Repeated Current Status Data. *Statistica Sinica*. In press. NIHMSID: 796289.
27. Chen T, Zeng D, **Wang Y*** (2015). Multiple kernel learning with random effects for predicting longitudinal outcomes and data integration. *Biometrics*. 71:918-928. (An earlier version won the **ASA Statistical Learning and Data Mining Section Student Paper Award**). PMID: 26177419.
28. **Wang Y***, Liang B, Tong X, Marder K, Bressman S, Orr-Urtreger A, Giladi N, Zeng D (2015). Efficient Estimation of Nonparametric Genetic Risk Function with Censored Data. *Biometrika*. 102(3):515-532. PubMed PMID: 26412864; PubMed Central PMCID: PMC4581539
29. Chen T, Ma Y, **Wang Y*** (2015). Predicting Cumulative Risk of Disease Onset by Re-distributing Weights. *Statistics in Medicine*. 34(16):2427-43. PMID: 25847392; PMCID: PMC4457675.
30. Jiang F, Ma Y, **Wang Y** (2015). Fused Kernel-Spline Smoothing for Repeatedly Measured Outcomes in a Generalized Partially Linear Model with Functional Single Index. *Annals of Statistics*. 1929-1958. 43(5). (An earlier version won **ENAR Distinguished Student Paper Competition**, 2014) NIHMSID: 686160.
31. Chen T, **Wang Y***, Chen H, Marder K, Zeng D. (2014). Targeted local support vector machine for age-dependent classification. *Journal of the American Statistical Association*. 109:507, 1174-1187. (An earlier version won **ICSA Jiann-Ping Hsu Pharmaceutical and Regulatory Sciences Student Paper Award**). PubMed PMID: 25284918; PubMed Central PMCID: PMC4183366.
32. Qin J, Garcia TP, Ma Y, Tang, M, Marder K, and **Wang Y***. (2014). Combining isotonic regression and EM algorithm to predict genetic risk under monotonicity constraint and unknown genotypes. *Annals of Applied Statistics*. 8(2), 1182-1208. PubMed PMID: 25404955; PubMed Central PMCID: PMC4231830.
33. Chen H, **Wang Y**, Li, R., Shear K. (2014). On testing a nonparametric function through penalized splines. *Statistica Sinica*. 24, 1143-1160.
34. Ma Y and **Wang Y***. (2014). Nonparametric modeling and analysis of association between Huntington's disease onset and CAG repeats. *Statistics in Medicine*. 33(8): 1369-1382. PubMed PMID: 24027120; PubMed Central PMCID: PMC3947445.
35. Ma Y and **Wang Y***. (2014). Estimating Disease Distribution Functions from Censored Mixture Data. *Journal of the Royal Statistical Society, Series C*. 63(1), 1-23.
36. Chen H, **Wang Y***, Paik CM, Choi A. (2013). A marginal approach to reduced-rank penalized spline smoothing for multilevel data. *Journal of the American Statistical Association*. 108(504): 1216-1229. (An earlier version won the JSM 2012 **ASA Biometrics Section Student Travel Award**). PubMed PMID: 24497670; PubMed Central PMCID: PMC3909538.

37. **Wang Y***, Chen H, Zeng D, Mauro C, Duan N, and Shear K. (2013). Auxiliary marker-assisted classification in the absence of class labels. *Journal of the American Statistical Association*. 108(502): 553-565.
38. Zeng D, and **Wang Y**. (2013). Discussion on "Statistical Learning With Time Series Dependence: An Application to Scoring Sleep in Mice" by McShane et al. *Journal of the American Statistical Association*. 108(504): 1154.
39. Fan R, Zhang Y, Albert P, Liu A, **Wang Y**, and Xiong M. (2012). Longitudinal genetic analysis of quantitative traits. *Genetic Epidemiology*. 36: 856-869. PMID: 22965819
40. **Wang Y***, Garcia T, and Ma Y. (2012). Nonparametric estimation for censored mixture data with application to the Cooperative Huntington's Observational Research Trial. *Journal of the American Statistical Association*. 107:500, 1324-1338.
41. Ma Y, **Wang Y*** (2012). Efficient Distribution Estimation for Data with Unobserved Sub-population Identifiers. *Electronic Journal of Statistics*. 6, 710-737.
42. **Wang Y***, Chen H (2012). On testing a variance component in a linear mixed effects model with multiple variance components. *Biometrics*. 68(4):1113-1125. PMID: 23020801.
43. **Wang Y***, Chen Y, Yang Q (2012). Joint rare variant association test of the average and individual effects for sequencing studies. *PLoS ONE*. 7(3): e32485. PMID: 22468164
44. Yang Q, **Wang Y** (2012). Methods for Analyzing Multivariate Phenotypes in Genetic Association Studies. *Journal of Probability and Statistics*. Volume 2012 (2012):652569. PubMed PMID: 24748889; PubMed Central PMCID: PMC3989935.
45. **Wang Y*** and Huang C. (2012). Semiparametric variance components models for genetic studies with longitudinal phenotypes. *Biostatistics*. 13(3):482-496. PMID: 21933778.
46. Chen T, **Wang Y***, Ma Y, Marder K, Langbehn D. (2012). Predicting disease onset from mutation status using proband and family data with applications to Huntington's disease. *Journal of Probability and Statistics*. Volume 2012 (2012), 375935. PMCID: PMC3589804
47. **Wang Y***, Huang C, Fang Y, Yang Q, and Li R (2012). Flexible semiparametric analysis of longitudinal genetic studies by reduced rank smoothing. *Applied Statistics: Journal of the Royal Statistical Society, Series C*. 61, 1-24. PMCID: PMC3348702
48. **Wang Y***. (2011). Flexible estimation of covariance function by penalized spline with application to longitudinal family data. *Statistics in Medicine*. 30(15), 1883-1897. PMCID: PMC3115522
49. Chen H and **Wang Y***. (2011). A penalized spline approach to functional mixed effects model analysis. *Biometrics*. 67, 861-870. PMCID: PMC2948587.
50. **Wang Y***, Yang Q, and Rabinowitz D (2011). Unbiased and efficient estimation of the effect of candidate genes on quantitative traits in the presence of population admixture. *Biometrics*. 67(2): 331-343. PMID: 20560930
51. **Wang Y***, Chen H, Li R, Duan N, and Lewis-Fernandez R (2011). Prediction based structured variable selection through penalized support vector machine. *Biometrics*. 67, 896-905. PMID: 21175555

52. **Wang Y***, Chen H, Schwartz T, Duan N, Parcesepe A, and Lewis-Fernandez R (2011). Assessment of a disease screener by hierarchical all subset selection using area under the receiver operating characteristic curves. *Statistics in Medicine*. 30, 1751-1760. PMID: PMC3108496
53. **Wang Y***, Fang Y (2011). Adjusting for treatment effects when estimating or testing genetic effects is the main interest. *J Data Science*. 9: 127-138.
54. **Wang Y***, Rabinowitz D (2010). Efficient non-parametric estimation from kin-cohort data. *Communications in Statistics: Theory and Methods*. 39(20): 3622-3634.
55. Fang Y, **Wang Y*** (2009). Testing for familial aggregation of functional traits. *Stat Med*. 28(29): 3611-3625. PMID: 19731232. *Authorship alphabetical ordering*.
56. Fang Y, **Wang Y**, Sha N. (2009). Armitages trend test for genomewide association analysis: one-sided or two-sided? *BMC Genet*. 3(Suppl 7): S37. PMID: 20018028
57. **Wang Y***, Sha N, Fang Y. (2009). Analysis of genome-wide association data by large-scale Bayesian logistic regression. *BMC Genet*. 3(Suppl 7): S16. PMID: PMC2795912
58. **Wang Y*** and Fang Y (2009). Least square and empirical Bayes approaches for estimating random change points. *J Data Science*. 7(1):1-12.
59. Beyene J, Tritchler D, Bull SB, Cartier KC, Jonasdottir G, Kraja AT, Li N, Nock NL, Parkhomenko E, Rao JS, Stein CM, Sutradhar R, Waaijenborg S, Wang KS, **Wang Y** and Wolkow P (2007). Multivariate analysis of complex gene expression and clinical phenotypes with genetic marker data. *Genet Epidemiol*. 31 Suppl 1:S103-9. PMID: 18046768
60. Wang S, Zheng T and **Wang Y**. (2007). Transcription activity hotspot, is it real or an artifact? *BMC Genet*. Suppl 1:S94. PMID: 18466598
61. **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.
62. **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
63. **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.
64. **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.

Substantive Area Publications:

65. Attia E, Steinglass J, Walsh T, **Wang Y**, Wu P, Schreyer C, Wildes J, Yilmaz Z, Guarda A, Kaplan A, Marcus M. (2019). Olanzapine versus Placebo in Outpatient Adults with Anorexia Nervosa: A randomized clinical trial. *American Journal of Psychiatry*. In press.
66. Garcia T, **Wang Y**, Shoulson I, Paulsen J, Marder K. (2018). Disease progression in Huntington Disease: an analysis of multiple longitudinal outcomes. *Journal of Huntington's Disease*. 7(4):337-344.

67. Avissar M, Xie S, Vail B, Lopez-Calderon J, **Wang Y**, Javitt D. (2018). Meta-analysis of mismatch negativity in schizophrenia: the simpler the better. *Schizophrenia Research*. 191:25-34.
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71. Choi J, **Wang Y**, Feng T, Prudic J. (2017). Cognitive training to improve memory in individuals undergoing electroconvulsive therapy: Negative findings. *Journal of Psychiatric Research*. 92, 8-14.
72. Tal I, Mauro C, Reynolds CF, Shear MK, Simon NM, Zisook S, Lebowitz B, Skritskaya N, **Wang Y**, Qiu X, Iglewicz A, and Glorioso D, Avanzino J, Loebach J, Karp J, Robinaugh D, Zisook S (2017). Complicated Grief After Suicide Bereavement and Other Causes of Death. *Death Studies*. 41(5):267-275.
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92. Maher M, **Wang Y**, Zuckoff A, Wall M, Franklin M, Foa E, Simpson B. (2012) Predictors of Patient Adherence to Cognitive Behavioral Therapy for Obsessive Compulsive Disorder. *Psychotherapy and Psychosomatics*. 81, 124-126. *Lead statistician on the study; Designed and conducted the analyses.*
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101. Tonorezos ES, Karpati AM, **Wang Y**, Barr RG (2008). Does the relationship between asthma and obesity differ by neighborhood? *Respir Med*. 102(12):1797-804. PMID: 18707858. *Sole statistician on the study; Participated in the design; Conducted all analyses of the study.*
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106. 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.*
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109. 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 Wlash 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 LG11. *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.

C. Book Chapters, Reviews and Commentaries

1. 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.
2. Duan N, and **Wang Y**. (2012). Heterogeneity of treatment effects. *Shanghai Journal of Psychiatry*. In press. 24(1): 54-55.
3. ***Wang Y** and Duan N. (2011). Analysis of repeated outcome measures from longitudinal studies. *Shanghai Journal of Psychiatry*. 23(4): 252-254.
4. ***Wang Y** and Duan N. (2011). Effect size for dichotomous outcome measures. *Shanghai Journal of Psychiatry*. 23(3): 184-186.
5. Duan N, and **Wang Y**. (2011). Effect size for continuous outcome measures. *Shanghai Journal of Psychiatry*. In press. 23(2): 120-123.
6. Duan N, and **Wang Y**. (2011). Significance test and confidence intervals. *Shanghai Journal of Psychiatry*. 23(1): 60-61.

Invited and Contributed Talks:

- Aug. 2004, Joint Statistical Meetings, Toronto, Canada. (Contributed)
- Aug. 2005, Joint Statistical Meetings, Minneapolis, MN. (Topic contributed)
- Nov. 2005, Division of Biostatistics, Ohio State University. (Invited)
- Jan. 2006, Department of Medical and Molecular Genetics, Indiana University Purdue University at Indianapolis. (Invited)
- Feb. 2006, Department of Biostatistics, Columbia University. (Invited)
- Mar. 2006, Department of Health Research and Policy, Stanford University. (Invited)
- Apr. 2006, Department of Environmental Medicine, New York University. (Invited)
- Jan. 2007, Columbia University Genetic Epidemiology Seminar. (Invited)

- Aug. 2007, Joint Statistical Meetings, Salt Lake City. (Contributed)
- Dec. 2008, New York State Psychiatric Institute. (Invited)
- Jul. 2009, First International Conference on the Interface between Statistics and Engineering, Beijing, China. (Contributed)
- Nov. 2009, Department of Statistics, Penn State University. (Invited)
- Feb. 2010, Symposium on Frontiers in the Interface between Statistics and Genetics, Hershey, Pennsylvania. (Invited)
- Apr. 2010, Department of Biostatistics, Yale University. (Invited)
- Aug. 2010, Joint Statistical Meetings, Vancouver, Canada (Topic contributed; Organizer)
- Feb. 2011, Department of Mathematical Sciences, New Jersey Institute of Technology (Invited)
- Apr. 2011, Department of Statistics, Texas A&M University. (Invited)
- Apr. 2011, Department of Mathematics and Statistics, Georgia State University. (Invited)
- Jun. 2011, International Chinese Statistical Association Applied Statistics Symposium. (Organizer; Invited Speaker)
- Nov. 2011, Department of Statistics, North Carolina State University (Invited)
- June, 2012, International Chinese Statistical Association Applied Statistics Symposium. (Invited)
- Aug. 2012, Joint Statistical Meetings, San Diego, USA. (Organizer; Invited)
- Nov. 2012, Department of Statistics, Columbia University (Invited student seminar)
- Feb. 2013, Division of Biostatistics & Epidemiology, Department of Public Health, Weill Medical College, Cornell University (Invited)
- Feb. 2013, NIH Workshop on Huntington's Disease Biomarkers and Clinical Diagnostics (Invited)
- Mar. 2013, Department of Biostatistics, University of North Carolina at Chapel Hill (Invited)
- June 2013, Institute of Mathematical Statistics International Conference on Statistics and Probability, Chengdu, China (Invited)
- July 2013, The Second Taihu International Statistics Forum, Suzhou, China (Invited)
- Aug. 2013, Joint Statistical Meetings, Montreal, Canada (Invited)
- Oct. 2013, Department of Biostatistics, Rutgers University (Invited)
- Nov. 2013, Department of Biostatistics and Bioinformatics, University of Rochester (Invited)
- Mar. 2014, Eastern North American Region Meetings (Invited)
- May 2014, Frontiers in Applied and Computational Mathematics (NJIT, Invited)

- June 2014, International Chinese Statistical Association Applied Statistics Symposium. (Invited)
- August 2014, Joint Statistical Meetings (Topic Contributed)
- Nov. 2014, US Food and Drug Administration (FDA, Invited seminar)
- August 2015, Joint Statistical Meetings, Seattle, USA (Invited)
- October 2015, International Conference on Health Policy and Statistics, Providence, RI (Invited)
- March 2016, Eastern North America Region (ENAR) Meetings (Invited)
- April 2016, Advances and Challenges in Measurement Error Problems and Other Complex Data Workshop, College Station, Texas (Invited)
- June 2016, Fifth Annual Thomas R. Ten Have Symposium on Statistics in Mental Health, Philadelphia, PA (Invited)
- June 2016, Statistical Learning and Data Science Conference, Chapel Hill, NC (Invited)
- October 2016, IEEE International Conference on Healthcare Informatics: ICHI 2016, Chicago, IL (Invited)
- November 2016, Department of Biostatistics, Wisconsin Medical College (Invited)
- December 2016, The 10th ICSA International Conference on Global Growth of Modern Statistics in 21st Century, Shanghai, China (Invited)
- March 2017, Eastern North America Region (ENAR) Meetings, Washington D.C. (Invited)
- April 2017, Department of Biostatistics, Boston University (Invited), Boston, MA
- May 2017, Department of Epidemiology and Biostatistics, Memorial Sloan Kettering Cancer Center, New York, NY (Invited)
- May 2017, Mid-Atlantic Causal Inference Conference, Chapel Hill, NC (Invited)
- June 2017, IMS China Applied Symposium, Naning, Guangxi, China (Invited)
- July 2017, Workshop on Design of Healthcare Studies, Singapore National University (Invited)
- July 2017, Department of Statistics, Hongkong University, Hongkong, China (Invited)
- Oct 2017, NIH Huntington's Disease Biomarker Workshop (Invited Participant and Poster Presentation), Washington D.C.
- Oct 2017, Keynote Speaker, Novartis Biostatistics Conference (Invited), East Hanover, New Jersey
- Nov 2017, Department of Biostatistics, Yale University (Invited)
- December 2017, 10th International Conference of the ERCIM WG on Computational and Methodological Statistics, London, England (Invited)
- March 2018, Eastern North America Region (ENAR) Meetings, Atlanta, Georgia (Invited)

- June 2018, Conference on Statistical Learning and Data Science, New York, New York (Invited)
- June 2018, International Chinese Statistical Association Applied Statistics Symposium, New Brunswick, New Jersey (Invited)
- August 2018, Joint Statistical Meetings (JSM), Vancouver, Canada (Invited)
- October 2018, Data Science and Advanced Analytics (DSAA), Turin, Italy (Invited)
- December 2018, 11th International Conference of the ERCIM WG on Computational and Methodological Statistics, Pisa, Italy (Invited)