

CURRICULUM VITAE

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Personal Data

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Birth date: October, 21, 1971

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Academic Training

1993 BS, Truman State University, Kirksville MO, Major: Mathematics

1995 MS, Iowa State University, Ames IA, Major: Statistics

1998 Ph.D., Iowa State University, Ames IA, Major: Statistics

Professional Organizations and Societies

American Statistical Association, Elected Fellow in 2014

International Biometrics Society, ENAR Member

Academic Appointments

1993-1994 Teaching Assistant (Instructor), Department of Mathematics, Iowa State University, IA

1994-1996 Teaching Assistant (Instructor), Department of Statistics, Iowa State University, IA

1996 Summer Internship, Sandoz Pharmaceutical Company, NJ

1996-1998 Research Assistant, Center for Family Research in Rural Mental Health, Iowa State University, IA

1998-2004 Assistant Professor, Division of Biostatistics, School of Public Health, University of Minnesota, MN

2004-2010 Associate Professor with tenure, Division of Biostatistics, School of Public Health, University of Minnesota, MN

2005 Visiting scholar, l'Ecole des Mines, Fontainebleau, and l'Institut National de la Santé et de la Recherche Médicale, Paris, France

2010 Full Professor with tenure, Division of Biostatistics, School of Public Health, University of Minnesota, MN

2010-Present Full Professor of Biostatistics (in Psychiatry) with tenure, Department of Biostatistics, Mailman School of Public Health, and Department of Psychiatry in the College of Physicians and Surgeons, Columbia University Medical Center, NY

2012-Present Director of Division of Biostatistics and Data Coordination (until 2017) then Mental Health Data Science (starting 2018-Present) in the Department of Psychiatry, Columbia University Medical Center, Research Foundation for Mental Hygiene (RFMH), and the New York State Psychiatric Institute (NYSPI), NY

Honors

1996 Teaching Excellence Award, Iowa State University

2001 Recipient of Young Researcher Travel Award. Conference in Celebration of Wayne A. Fuller's 70th Birthday on June 21. Ames, IA.

2004 Leonard Schuman Excellence in Teaching Award, School of Public Health, University of Minnesota

2004-2007 University of Minnesota McKnight Presidential Fellow for Research and Scholarship

2014 Elected Fellow of the American Statistical Association

Fellowship and Grant Support

Active Support:

- 2014-2019 Predictors of high risk behaviors among youth
NIH-NICHD R01HD060072 06A1
Role: Co-Investigator (PI: Silvia Martins, Columbia University)
Total direct support: 0.24 CM
- 2014-2019 State medical marijuana laws and NSDUH marijuana use and consequences
NIH-NIDA 1 R01 DA037866 01
Role: Co-Investigator (PI: Silvia Martins, Columbia University)
Total direct support: 0.46 CM
- 2014-2018 Mechanisms of Antidepressant Non-Response in Late-Life Depression
NIH- NIMH R01 MH102293
Role: Co-Investigator (PI: Bret Rutherford, Columbia University)
Total direct support: 0.32 CM
- 2015-2018 Prescription drug use in the US population: Gateway Effects and Family Patterns.
NIH NIDA R01DA036748
Role: Co-Investigator (PI: Denise Kandel, Columbia University)
Total direct support: 0.38 CM
- 2015-2020 Using Longitudinal Data to Characterize the Natural History of Fragile X Syndrome (FXS) to Improve Services and Outcomes-Data Coordinating Center
CDC U01 01DD001188-02
Role: Co-Investigator (PI: Howard Andrews, Columbia University)
Total direct support: 0.37 CM
- 2016-2023 Breaking the cycle of intergenerational disadvantage: neurodevelopment among Puerto Rican children
NIH-NIAD UG3 3OD023328-01
Role: Co-Investigator (PI: Duarte, Canino, Monk, Posner, Columbia University)
Total direct support: 0.56 CM
- 2016-2018 Targeting Dopaminergic Mechanisms of Slowing to Improve Late Life Depression
NIH-NIMH R61 MH110029-01
Role: Co-Investigator (PI: Rutherford, Columbia University)
Total direct support: 0.22 CM
- 2017-2021 Health Care Policy and Substance Abuse Treatment Access
NIH-NIDA R01 DA039137-01A1
Role: Co-Investigator (PI: Olfson, Columbia University; Mojtabai, JohnsHopkins)
Total direct support: 0.91 CM

- 2017-2021 Identifying Reproducible Brain Signatures of Obsessive-Compulsive Profiles
NIH-NIMH R01 MH113250-01
Role: Co-**Principal Investigator** (PI: Simpson/Wall, Columbia University)
Total direct support: 0.74 CM
- 2017-2019 Glutamate reducing interventions in schizophrenia
NIH-NIMH R61 MH112800
Role: Co- Investigator (PI: Scott Small, Columbia University)
Total direct support: 1.01 CM
- 2017-2019 Hospital Discharge Planning and Transition to Outpatient Psychiatric Care
NIH-NIMH R01 MH106558
Role: Co- Investigator (PI: Tom Smith, Columbia University)
Total direct support: 0.37 CM
- 2017-2022 The Neurobiology of Violence in Psychosis-Risk Cohort
NIH-NIMH R01 MH113861-01
Role: Co- Investigator (PI: Ragy Girgis, Columbia University/RFMH)
Total direct support: 0.37 CM
- 2017-2021 Improving Cognition via Exercise in Schizophrenia
NIH- R01 MH110623- 01A1
Role: Co- Investigator (PI: Kimhy Mt Sinai/ Stroup, Columbia University)
Total direct support: 0.60 CM
- 2017-2024 Eating, Activity, and Weight- Related Problems across the Life Course in Diverse Populations
NIH- R35 HL139853- 01
Role: Co- Investigator (PI: Dianne Neumark-Sztainer, University of Minnesota)
Total direct support: 1.2 CM
- 2018-2021 Optimizing and Personalizing Interventions For Schizophrenia Across the Lifespan (OPAL)
NIH- P50MH115843- 01
Role: Methods Core Director (PI: Scott Stroup, Columbia University/RFMH)
Total direct support: 0.60 CM
- 2018-2023 Community I- STAR Mozambique: Community Implementation of SBIRT using Technology for Alcohol use Reduction in Mozambique
NIH-R01 AA025947- 01A1
Role: Co-investigator (PI: Milton Wainberg, Columbia University/RFMH)
Total direct support: 0.60 CM
- 2018-2023 Prenatal endocrine- disrupting chemicals and social/cognitive risk in mothers and infants: Potential Biological Pathways
NIH-R01 ES027424- 01A1

Role: Co-investigator (PI: Beatrice Beebe and Julie Herbshman, Columbia University/RFMH)
Total direct support: 0.60 CM

2018-2022 Center For Research on the Ethical, Legal and Social Implications of Psychiatric, Neurologic & Behavioral Genetics Research
NIH-NHGRI 1 RM1 HG010197- 01
Role: Co- Investigator (PI: Paul Appelbaum, Columbia University)
Total direct support: 0.60 CM

Past Support:

1999-2000 Allina's Human Resources Study (Funding agency: Allina Foundation)
Role: Co-Investigator (PI: Pat McGovern, U of Minnesota)

1999-2000 Nonlinear latent variable modeling (Funding agency: University of Minnesota Grant-in-Aid) Role: **Principal Investigator**

1999-2001 Factors Associated with Nutritional Intake in Adolescents (Project EAT 1)
(Funding agency: Maternal Child Health Bureau)
Role: Statistician (PI: Dr. Dianne Neumark-Sztainer, U of Minnesota)

1999-2004 Minnesota Center for Excellence in Health Statistics (Funding agency: National Center for Health Statistics)
Role: **Co-Principal Investigator** with John Oswald, MN Health Dept

2000- 2002 Alcohol Abuse Treatment Outcomes Managed Care (Funding agency: NIH-NIAAA) Role: Co-Investigator (PI: Robert Kane, U of Minnesota)

2001-2004 Quality of Life in Children Who Survived Neuroblastoma (Funding agency: Am Cancer Soc) Role: Co-Investigator (PI: James Gurney, U of Minnesota)

2001-2007 Project EAT II (Funding agency: Maternal Child Health Board)
Role: Co-Investigator (PI: Dianne Neumark-Sztainer, U of Minnesota)

2002-2003 Characterizing Anthrax Patterns in Minnesota to Predict Future Outbreaks and Ensure Preparedness (Funding agency: University of Minnesota)
Role: Co-Investigator (PI: Jeff Bender, U of Minnesota)

2002-2003 Incorporating Contributing Conditions at Death into Mortality Data Analysis (Funding agency: Minnesota Medical Foundation)
Role: **Principal Investigator**

2003-2004 Minnesota Department of Health Annual Plan - Syndromic Surveillance
(Funding agency: Center for Disease Control)
Role: **Principal Investigator**

- 2003-2007 Statistical Methods in Cancer Control and Epidemiology
(Funding agency: NIH-NCI)
Role: Co-Investigator (PI: Brad Carlin, U of Minnesota)
- 2005-2009 Latent variable models and methods for behavioral health data in public health (Funding agency: NIH-NIAAA-1R01-AA014924-03)
Role: **Principal Investigator**
- 2006-2009 Examining the Obesity Epidemic through Youth, Family, and Young Adults (TREC, COREB) Funding agency: NIH-U54CA116849)
Role: Statistician (PI: Simone French, Robert Jeffreys, U of Minnesota)
- 2007-2009 Developing pregnancy weight gain charts (Funding agency: UCare Medical Foundation and Health Partners Grants initiative)
Role: Co-Investigator (PI: Patricia Fontaine, U of Minnesota)
- 2007-2009 Mindfulness Meditation versus Pharmacotherapy for Chronic Insomnia: Pilot Study (Funding agency: Minnesota Academic Health Center faculty research development grant)
Role: Co-Investigator (PI: Cynthia Gross, U of Minnesota)
- 2007-2010 An intervention to improve expression of end of life preferences for homeless people (Funding agency: NIH-1R01-NR009815)
Role: Co-Investigator (PI: John Song, U of Minnesota)
- 2008-2010 Household and Neighborhood Food Choices (Funding agency: NIH-1R21-CA137240)
Role: Co-Investigator (PI: Simone French, U of Minnesota)
- 2009-2010 Association between behavioral disturbances and nursing home admission in patients with Alzheimer's disease (Funding agency: Eli Lilly and Co.)
Role: Co-investigator (PI: Joseph Gaugler, U of Minnesota)
- 2009-2010 Project F-EAT: Families and Eating Activity in Teens
(Funding agency: NIH - R01 HL093247)
Role: Co-Investigator (PI: Dianne Neumark-Sztainer, U of Minnesota)
- 2011-2012 Substance abuse in US Hispanics: A national study
(Funding agency: NIH-R01DA019606-04)
Role: Statistician (PI: Carlos Blanco, Columbia University)
- 2007-2013 Project EAT III: Eating Among Teens and Young Adults
NIH-1R01-HL084064-02
Role: Co-Investigator (PI: Dianne Neumark-Sztainer, U of Minnesota)

- 2009-2014 Multilevel latent class and social network models for observational adolescent obesity data
NIH-1U01-HD061940
Role: **Principal Investigator**
- 2010-2015 Adverse childhood experiences, psychopathology, and alcohol disorders
NIH-U01-AA018111-01
Role: Statistician (PI: Deborah Hasin, Columbia University)
- 2012-2018 Towards a comprehensive developmental model of substance use disorder
NIH-NIDA R01 DA019606-09
Role: Co-Investigator (PI: Mark Olfson, , Columbia University/RFMH)
- 2012-2018 State medical marijuana laws and teen marijuana use and attitudes
NIH-NIDA 1R01DA034244
Role: Co-Investigator (PI: Deborah Hasin, Columbia University)
- 2012-2018 Interagency Collaboration to Implement Effective Behavioral Interventions
NIH-NIMH 1R01MH095676
Role: Co-Investigator (PI: Rogerio Pinto, Columbia University)
- 2013-2018 Project EAT IV: Eating & Activity in Adolescents and Young Adults
NIH- NHLBI 1R01-HL116892-01
Role: Co-Investigator (PI: Dianne Neumark-Sztainer, University of Minnesota)
- 2013-2018 FAST-PS Biomarker Validation Study Task
NIH-NIMH HHSN27100003
Role: Co-Investigator (PI: Jeffrey Lieberman, Columbia University)
- 2013-2016 Comparative Effectiveness of Developmental-Behavioral Screening Instruments
NIH 1R01DA072778
Role: Co-Investigator (PI: Ellen Perrin, Tufts University)
- 2014-2017 Peer-Led Healthy Lifestyles Program in Supportive Housing
NIH-NIMH_R01 MH010457-03
Role: Co-Investigator (PI: Leo Cabassa, Columbia University then St. Louis University)
- 2015-2017 DSM-IV and DSM-5 SUD: Reliability/Validity in Patient Samples
NIH-NIDA R01 DA18652-60A1
Role: Co-Investigator (PI: Deborah Hasin, Columbia University)
- 2015-2017 HealthCall: Enhancing intervention for HIV with alcohol dependence
NIH-NIAAA_R01 AA023163-01
Role: Co-Investigator (PI: Deborah Hasin, Columbia University)

- 2015-2018 Role of depression and anxiety in the tobacco epidemic
NIH NIDA 5 R01 DA020892-06
Role: Co-Investigator (PI: Renee Goodwin, Columbia University)
- 2015-2018 Comparative effectiveness of adaptive pharmacotherapy strategies for schizophrenia
PCORI CER-1310-06750
Role: Co-Investigator (PI: Scott Stroup, Columbia University)
- 2015-2019 Validation of PRISIM-5-OP, measure of addiction to prescription Opioid
Inventiv Health
Role: Co-Principal Investigator (PI: Hasin/Wall, Columbia University)
- 2016-2018 Physical and Mental Fatigability in Late Life Clinical Populations
NIH- NIA R21 AG053202-02
Role: Co- Investigator (PI: Patrick Brown, Columbia University)
- 2016-2017 Drinking Levels (Binge, Volume) and Alcohol Consequences: Using National Data to Identify Clinical Trial Endpoints
NIH-NIAAA_R01 AA025309-02
Role: Co-Investigator (PI: Deborah Hasin, Columbia University)

Departmental and University Committees

- 1998-2004 Curriculum Committee (Chair 2000-2004), Division of Biostatistics, University of Minnesota
- 1998-2001 Chair, Seminar Committee, Division of Biostatistics, University of Minnesota
- 1999-2004 Asst/Assoc/Full Professor Search Committee, Division of Biostatistics, University of Minnesota
- 2000-2010 Student Recruiting Committee, Division of Biostatistics, University of Minnesota
- 2002-2004 Major Chair of Biostatistics, Educational Policy Council, School of Public Health, University of Minnesota
- 2006-2008 Director of Graduate Studies, Division of Biostatistics, University of Minnesota
- 2006-2010 Admissions Committee, Division of Biostatistics, University of Minnesota
- 2006-2010 Student Awards Committee, Division of Biostatistics, University of Minnesota

2007-2008	Chair, Joint Biostatistics and Epidemiology Assistant/Associate Search Committee, University of Minnesota
2008-2010	Advancement, Promotion, and Tenure Committee, School of Public Health, University of Minnesota
2011-2012	Biostatistics in Psychiatry Seminar Chair, Columbia University NYSPI
2015	Mailman School of Public Health Precision Medicine Task Force, Columbia University
2014-2017	Chair, Annual Faculty Review committee, Department of Biostatistics, Columbia University
2014-present	Member, Curriculum Committee, Department of Biostatistics, Columbia University

Teaching Experience and Responsibilities

1998-2010	8 semester offerings of Biostatistical Models and Methods, University of Minnesota, (20-115 students each semester)
1999-2001	2 semester offerings of Spatial Biostatistics, University of Minnesota, 9-10 students
2000-2010	8 semester offerings of Latent Variable Measurement Modeling and Path Analysis, University of Minnesota, (between 22-39 students each semester)
2011-present	Occasional guest lecture in different courses (Columbia University): Mailman School of Public Health: Alcohol and Drug Epidemiology Course (Prof: Hasin) and NYPSI Statistical Methods Training for Research Fellows.
2012-present	7 semester offerings of Latent variable and structural equation modeling for health sciences (3 credits, Spring semester Columbia University): In 2012, 12 students enrolled, 6 additional researchers sat-in; In 2013, 26 students enrolled, 7 additional researchers. In 2014, 27 students enrolled, 4 additional researchers sitting in. In 2015, 38 students enrolled, 8 additional researchers sitting in. In 2016, 26 students enrolled, 4 additional researchers sitting in. In 2017, 26 students enrolled, 5 researchers sitting in. In 2018, 53 students enrolled, 11 researchers sitting in.

Student Thesis Advising

2001-present	Ph.D. and Dr.PH Thesis Sponsorship , Primary dissertation advisor for: <ol style="list-style-type: none"> 1. Fujun Wang graduated 2002, Ph.D. in biostatistics, U of Minnesota “Modeling and predicting common factors in multivariate spatial health-statistics data”
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2. Xuan Liu graduated 2005, Ph.D. in biostatistics, U of Minnesota “Latent variable models for multivariate spatial data”
3. Jia Guo graduated 2006, Ph.D. in biostatistics, U of Minnesota “Biostatistical models with latent variables”
4. Nicholas Salkowski graduated 2011, Ph.D. in biostatistics, U of Minnesota “Approaches to handling time-varying covariates in survival models”
5. Gary Yu graduated 2013, Dr.PH in biostatistics, Columbia University “Identifying patterns in behavioral public health data using mixture modeling with an informative number of repeated measures”
6. Cheryl Raffo graduated 2018, Dr.PH in biostatistics, Columbia University “Data-driven methods for identifying and validating shorter symptom criteria sets: The case for DSM-5 substance use disorders”

1998-2010 Master’s thesis sponsorship at University of Minnesota

- Primary advisor for 21 biostatistics masters students writing a master’s thesis

2010-present Master’s project advisor at Columbia University

- Primary advisor for biostatistics masters projects: Ernest Poh (2011), JinJoo Shim (2012), Ruth Eisenberg (2013), Fion Hseih (2013), Yi Liu (2013), Min Chen (2015), Jun Zhu (2015)

1998-2010 Doctoral dissertation committee member at University of Minnesota – 55 PhD students from epidemiology, health services research, environmental health, psychology, education, sociology, economics.

2010-present Doctoral (PhD and DrPH) dissertation committee member at Columbia University

- Zhifen Cheng graduated 2012, Ph.D. in education (sponsor: Larry DeCarlo), “Comparing estimation methods for latent class signal detection”
- Kim Glickman graduated 2013, Ph.D. in social work (sponsor: Kathy Shear), “Mediators of complicated grief therapy”
- Tasha Stehling-Ariza graduated 2014, Ph.D. in epidemiology (sponsor: Sharon Schwartz), “Materialism, health and social gradient”
- Stephanie Zhang graduated 2014, Ph.D. in statistics (sponsor: Zhiliang Ying), “Statistical inference and experimental design for Q-matrix based cognitive diagnostic models”
- Mimi Fenton graduated 2015, PhD in epidemiology (sponsor: Sharon Schwartz) “Examining benzodiazepine abuse in the context of prescriptions for the drug”
- Rahbel Rahman graduated 2015, Ph.D in social work (sponsor: Rogerio Pinto) “Predictors of service integration in health teams in Brazil”
- Jung Yeon Park 2015, Ph.D. in educational psychology (sponsor: Matthew Johnson) “Posterior predictive model checks in cognitive diagnostic models”

Training Fellowships Sponsored/Mentored

2007-2010 Mentor, NIH CAPS Fellowship winner, Examine pharmacodynamics in overweight children (L’Aurelle Johnson, Asst Prof, U of Minnesota)

- 2007-2010 Mentor, NIH-NCI K Award recipient, High school wellness committee policies as they relate to adolescent outcomes (Susie Nanney, Asst Prof, U of Minnesota)
- 2008-2010 Mentor, BIRCH Fellowship winner, Models for family structure and dynamics influencing obesity in adolescents (Jerica Berge, Asst prof, U of Minnesota)
- 2009-2012 Mentor, NIH-K02 Award recipient, Applying Latent Variable Modeling to Comorbidity Treatments Research (Matt Kushner, Assoc Prof, U of Minnesota)
- 2010-2012 Research Supervisor/Mentor, Modeling adolescent peer friendship network relationships in health outcome (Jin Joo Shim, Biostatistics Masters student Columbia University)
- 2010-2012 Research Supervisor/Mentor (co-mentor with Dr. Rogerio Pinto, Sociology Columbia University), Predicting interagency collaboration in HIV community centers (Gary Yu, Biostatistics PhD student Columbia University)
- 2011 Faculty mentor for two undergraduate students in the “BEST” diversity program in Biostatistics, (Columbia University).
- 2011-2013 Research Supervisor/Mentor, Expanding methods for item response theory modeling of psychiatric disorders (Jung Yeon Park, Ph.D. student, Teachers’ College, Columbia University)
- 2011-present Mentor, Research Training Program in Psychiatric Epidemiology at Columbia University NIMH (T32MH013043), PI: Sharon Schwartz (Previously Bruce Link)
- 2012-2017 Mentor, Mark Hatzenbuehler (Post-doctoral researcher Psychiatric Institute, Columbia University) - NIHK01 on mental health and substance use disparities in LGB populations
- 2012-present Mentor, Research Training Program in Epidemiology of Substance Use Disorders at Columbia University T32DA031099-01A1, PI: Deborah Hasin
- 2013-2018 Mentor, Kerry Keyes (Assistant professor of epidemiology, Columbia University) - NIHK01 on black white differences in consequences of alcohol abuse
- 2014-present Mentor, Neil Aggarwal (Assistant professor of psychiatry, Columbia University) - NIHK01 Developing the cultural formulation interview
- 2015-present Mentor, Jennifer Elliot (Assistant professor of clinical psychology, Columbia University) - NIHK23 Understanding and intervening with heavy drinking among patients with HIV and HIV/Hepatitis C Virus (HCV) co-infection.

- 2015-present Mentor, Annika Sweetland (Assistant professor of clinical sociomedical sciences, Columbia University) - NIHK01 Integrating evidence-based depression treatment in primary care: Tuberculosis in Brazil as a model
- 2015-present Mentor, Seonjoo Lee (Assistant professor of biostatistics, Columbia University) - NIHK01 Statistical methods for neural mechanisms mediating cognitive system in mental health research.
- 2017-present Mentor, Teal Eich (Research Scientist in neurology, Columbia University) – NIHK99 Exploring the Latent Class Structure of Inhibition in Normal Aging

Selected Academic Presentations (within the last 10 years)

National/International Conference Presentations:

1. “Predicting service use and functioning for people with first episode psychosis in coordinated specialty care,” International Biometric Society ENAR Spring meeting, Philadelphia PA, March 2019.
2. “Shared versus specific effects of psychiatric treatment on multiple outcomes in clinical trials using latent variable modeling”, College of Problems of Drug Dependence. San Diego, CA, June 2018. **Invited.**
3. “Empirical methods for identifying optimal diagnostic criteria for psychiatric disorders”, Tom TenHave Symposium on Statistics in Mental Health. Chicago IL, June 2018. **Invited.**
4. “Correcting for time-dependent measurement error and differential selection bias when estimating trends in marijuana use and disorder”, Poster at Psychometrics Society Meeting, Zurich Switzerland, July 2017.
5. “A data-driven method for deriving shorter DSM symptom criteria sets: The case for alcohol use disorder”, Society for Biological Psychiatry, San Diego, CA, May 2017. **Invited Plenary**
6. “In search of an optimally valid criteria set for diagnosing alcohol use disorder”, Psychometrics Society Meeting, Beijing China, July 2015.
7. “Assessment of dimensionality can be distorted by too many zeroes: An example from psychiatry and a solution using mixture models”, International Biometric Society ENAR Spring meeting, Miami FL, March 2015.
8. “Shared versus specific effects of treatment on multiple outcomes in clinical trials using latent variable modeling”, International Biometric Society ENAR Spring meeting, Baltimore MD, March 2014, and the Joint Statistical Meeting, Boston MA August 2014, both **Invited.**
9. “Assessment of dimensionality can be distorted by too many zeroes: An example from psychiatry and a solution using mixture models”, Psychometrics Society Meeting, Madison WI, July 2014.
10. “Are you looking for the right interactions? Additive versus multiplicative interactions with dichotomous outcome variables” International Biometric Society ENAR Spring meeting, Orlando FL, March 2013.

11. "Examining Item Response Theory Analyses of DSM Psychiatric Disorders", Joint Statistical Meeting. Topics Contributed Statistics in Mental Health Research. San Diego, CA, August 2012.
12. "Item Response Theory: Applications and Extensions to Psychiatric Disorder Criteria", Psychometrics Society Conference. **Invited** 'State of the Art' talk. Lincoln Nebraska July 2012.
13. Discussant for the session on "The analysis of social network data in public health", International Biometric Society ENAR Spring meeting, Washington D.C, April 2012.
14. "Comparing Alternative Psychiatric Diagnostic Criteria sets using Item Response Theory with Total Information Curves", Joint Statistical Meeting, Miami Beach, FL, August 2011.
15. "Spatial latent class analysis model for spatially distributed multivariate binary data", International Biometric Society ENAR Spring meeting, Invited. Miami, FL, March 2011.
16. "A structured latent class model versus a factor mixture model for exploring clusters of obesogenic behaviors and environments in adolescents," International Biometric Society ENAR Spring meeting, New Orleans, LA, March 2010.

Invited Departmental Seminars:

1. "Machine learning for psychiatric research: Current reality and future prospects" Columbia University Department of Psychiatry Grand Rounds, Essock Lecturship, March 2019.
2. "Data Science in Psychiatry" Presentation to the clinical and research faculty of Austen Riggs, Stockbridge MA, February 2019.
3. "In search of an optimally valid criteria set for diagnosing alcohol use disorder", Department of Statistics, University of Connecticut, November 2015.
4. "IRT and other latent variable models: Applications to psychiatric disorders" Department of Biostatistics and Epidemiology, Memorial Sloan-Kettering Cancer Center, New York May 2014.
5. "Item Response Theory: Applications and Extensions to Psychiatric Disorder Criteria" Department of Mathematics and Statistics, University of Maryland Baltimore County, April 2013.
6. "Conceptualizing mediation and assessing it with data: Baron-Kenny and Beyond" Department of Psychiatry, Division of Biostatistics. Columbia University, October 2012.
7. "Item Response Theory Applications and Extensions to Psychiatric Disorder Criteria" Department of Psychology, Fordham University, October 2012.
8. "Are you looking for the right interactions? Additive versus multiplicative interactions with dichotomous outcome variables" Department of Psychiatry, Division of Biostatistics. Columbia University, October 2011.
9. "Spatially distributed latent variable models" Departments of Psychology and Statistics, Ohio State University "Wherry Lecture", April 2011.
10. "Developing Criteria for a new disorder in DSM5" Department of Sociology, Columbia University, co-presentation with Kathy Shear, October 2010.
11. "Clustering Variables Clustering Individuals – Examining factor mixture models and a new structured latent class method" Department of Psychiatry, Division of Biostatistics. Columbia University, September 2010.
12. "Nonlinear structural equation modeling as a statistical method," Department of Biostatistics. Columbia University, March 2009.

13. "Structural equation modeling of latent classes," Department of Psychiatry, Division of Biostatistics. Columbia University, January 2009.

Other Professional Activities

- 2000 Conference developer and organizer, Minnesota Conference on Measurement and Assessment of Health Disparities, first annual conference held May 2000.
- 2000 Roundtable for organizing the Conference on Adolescent Health, School of Public Health, University of Minnesota
- 2003-2004 National Institute of Health (NIH) Clinical Cardiovascular Science (CCVS) study section
- 2003-2006 Data Safety and Monitoring Board (DSMB), Islet transplantation in diabetic patients (PI: Bernhard J. Hering, University of Minnesota)
- 2004 Session Organizer, "Latent Variable modeling in the health sciences," Joint Statistical Meetings, Toronto Canada, August 5
- 2007 National Institute of Health (NIH-NIAAA) Special review panel for RFA-Mechanisms of behavior change in the treatment of alcohol use disorders
- 2006-2011 National Institute of Health (NIH) Biostatistical methods and research design (BMRD) study section
- 2008-2011 Associate Editor, The American Statistician
- 2011 NSF Measurement, Methodology and Statistics scientific review panel
- 2012 National Institute of Health (NIH-NIMH) Special review panel for RFA-Information technology advances for health services in mental health
- 2011-present Consulting Editor, Psychological Methods
- 2012-2013 ENAR Program Chair for the 2013 Joint Statistical Meeting Conference in Montreal.
- 2013-2016 National Institute of Mental Health (NIMH) Health Services (SERV) study section
- 2015-present Elected member of Regional Committee (RECOM) of ENAR of International Biometrics Society
- 2018 National Institute of Health (NIH-NIMH) Special review panel for RFA-Addressing suicide research gaps

2018-present Associate Editor and Statistical Advisor for British Journal of Psychiatry Open

Bibliography

An asterisk (*) is used to denote first or senior author.

Peer Reviewed Articles

1998

1. Spoth RL, Redmond C, Shin C, Lepper HA, Haggerty K, Wall MM. Risk moderation of parent and child outcomes in a preventive intervention: A test and replication, *American Journal of Orthopsychiatry*, 68, 565-579. 1998.

2000

2. *Wall MM, and Amemiya Y. Estimation for polynomial structural equation models, *Journal of the American Statistical Association*, 95, 929-940. 2000.

2001

3. *Wall MM, and Amemiya Y. Generalized appended product indicator procedure for fitting polynomial structural models, *Journal of Educational and Behavioral Statistics*, 26, No. 1, 1-29. 2001.

4. *Wall MM, Boen JR, and Tweedie RL. An effective confidence interval for the mean with samples of size 1 and 2, *The American Statistician*, 55, 102-105. 2001.

2002

5. Pan W and Wall MM. Approximate inferences using the sandwich variance estimator in generalized estimating equations, *Statistics in Medicine*, 21, No. 10, 1429-1441. 2002.

6. Irving L, Wall MM, Neumark-Sztainer D, and Story M. Steroid use among adolescents: Findings from Project EAT, *Journal of Adolescent Health*, 30, 243-252. 2002.

2003

7. *Wall MM and Amemiya YA. A method of moments technique for fitting interaction effects in SEM, *British Journal of Mathematical and Statistical Psychology*, 56, 47-63. 2003.

8. *Wang F and Wall MM. Generalized common spatial factor model, *Biostatistics*, 4(4), 569-582. 2003.

9. *Wang F and Wall MM. Incorporating parameter uncertainty into prediction intervals for spatial data modeled via a parametric variogram, *Journal of Agricultural, Biological, and Environmental Statistics*, 8(3), 296-309. 2003.
10. *Wall MM and Li R. A comparison of multiple regression to two latent variable techniques for estimation and prediction, *Statistics in Medicine*, 22:3671-3685. 2003.
11. Banerjee S, Wall MM, and Carlin B. Frailty modeling for spatially correlated survival data, with application to infant mortality in Minnesota, *Biostatistics*, 4, 123-143. 2003.
12. Neumark-Sztainer D, Wall MM, Story M, and Perry C. Correlates of unhealthy weight control behaviors among adolescent girls and boys: Implications for the primary prevention of disordered eating, *Health Psychology*, 22(1), 88-99. 2003.
13. Neumark-Sztainer D, Wall MM, Perry C, Story M. Correlates of fruit and vegetable intake among adolescents: Findings from Project EAT, *Preventive Medicine*, 37, 198-208. 2003.
14. Utter J, Neumark-Sztainer D, Wall MM, Story M. Reading magazine articles about dieting and associated weight control behaviors among adolescents *Journal of Adolescent Health*, 32, 78-82. 2003.

2004

15. *Wall MM. A close look at the spatial structure implied by the CAR and SAR models. *Journal of Statistical Planning and Inference*, 121, 2, 311-324. 2004.
16. *Zhao Y and Wall MM. Investigating the use of the variogram for lattice data. *Journal of Computational and Graphical Statistics*. Vol 3, 3. 2004.
17. *Wall MM, Stromberg K, Potthoff S, Kane R. Defining Alcoholism Treatment Episodes from Mental Health Care Utilization Records. *Journal of Clinical Epidemiology*, 57, 373-380. 2004.
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