

CURRICULUM VITAE

George Dennis Papandonatos, Ph.D.

Professor (Research), Department of Biostatistics, Brown University.

Contact Information

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Education

B.Sc.: First Class Honors in Mathematics, O.R. & Economics, University of Essex, 1987.

Diploma: Statistics, University of Kent, 1988.

Ph.D.: Statistics, University of Minnesota, 1994. Advisor: Seymour Geisser.

Primary Academic Appointments

Assistant Professor, Dpt. of Statistics, SUNY at Buffalo, 1994–1998.

Assistant Professor (Research), Dpt. of Community Health, Brown University, 1998–2009.

Associate Professor (Research), Dpt. of Community Health, Brown University, 2009–2011.

Associate Professor (Research), Dpt. of Biostatistics, Brown University, 2011–2019.

Professor (Research), Dpt. of Biostatistics, Brown University, 2019–present.

Other Academic Appointments

Associate Research Scientist, Research Institute on Addictions, Buffalo, NY, 1996–1998.

Director, Biostatistics Core, TTURC-SPORE P50 Program Project, 1999–2009.

Affiliate Faculty, Centers for Behavioral & Preventive Medicine, The Miriam Hospital, 1999–2009.

Affiliate Faculty, Center for Children's Environmental Health, Brown University, 2019–present

Editorial Appointments

Consulting Editor: Journal of Consulting & Clinical Psychology, 2007–2010.

Consulting Editor: Health Psychology, 2011–2022.

Associate Editor: Research Synthesis Methods, 2019–2025.

Statistical Advisor: Journal of Applied Gerontology, 2022–2025.

Professional Society Memberships

American Statistical Association
Behavior Genetics Association
International Biometric Society
International Genetic Epidemiology Society
Royal Statistical Society
Society of Behavioral Medicine
Society for Research on Nicotine & Tobacco

University and Departmental Committees

Member: Ph.D. Admissions Committee, Dpt. of Community Health, 1999–2001.

Member: Ph.D. Admissions Committee, Dpt. of Biostatistics, 2009–2018.

Member: M.S. Admissions Committee, Dpt. of Biostatistics, 2018–2026.

Member: Faculty Search Committee, Dpt. of Community Health, 2005–2006.

Member: Faculty Search Committee, Dpt. of Biostatistics, 2011–2012, 2014–2015, 2016–2017.

Chair: Faculty Search Committee, Dpt. of Biostatistics, 2018–2019.

Member: Faculty Promotions Committee, Dpt. of Biostatistics, 2015–2016, 2022–2023.

Chair: Webpage Redesign Committee, Center for Statistical Sciences, 2004–2005.

Member: Executive Committee, Center for Statistical Sciences, 2017–2024.

Member: Research Faculty Professional Development, Dpt. of Community Health, 2005–2011.

Chair: Research Faculty Professional Development, Dpt. of Community Health, 2011–2014.

Member: Faculty Benefits Working Group, Brown Medical School, 2013–2014.

Member: Rhode Island Bio-Bank Initiative, Brown Medical School, 2006–2009.

Member: Strategic Planning Committee, Brown School of Public Health, 2014.

Member: Public Health Faculty Appointments, Brown School of Public Health, 2019–2022.

Member: Medical Faculty Appointments, Division of Biology & Medicine, Brown University, 2023–2026.

Lecture Series Organizing

Organizer: Statistics Seminar, Center for Statistical Sciences, 1999–2003.

Organizer: University Lecture Series, Methods for the Analysis of Imperfectly Measured Data, 1999–2000.

Organizer: University Lecture Series, Latent Variable Methods in Psychiatry & Social Sciences, 2000–2001.

Organizer: University Lecture Series, Social Networks Analysis, Methods & Applications, 2007–2008.

Organizer: University Lecture Series, Making Sense of Big Data: Statistics to the Rescue, 2012–2013.

Organizer: University Lecture Series, Novel Clinical Trial Designs, 2019–2020.

Book Review Service

American Psychological Association

Robert Wood Johnson Foundation

Springer Verlag.

Journal Review Service

Addiction

Addictive Behaviors

American Journal of Clinical Nutrition

Annals of Applied Statistics

Behavior Genetics,

Biometrics

Biometrical Journal

Biostatistics

BMJ Open

Brain Imaging & Behavior

Circulation: Cardiovascular Quality and Outcomes

Communications in Statistics

Controlled Clinical Trials
 Drug & Alcohol Dependence
 Ecotoxicology & Environment
 Environmental Research
 Environmental Science & Technology
 Epidemiologic Perspectives & Innovations
 Functional Neurology
 Health Education Research
 Health Psychology
 Health Services & Outcomes Research Methodology
 Journal of the American Statistical Association
 Journal of Applied Gerontology
 Journal of Consulting & Clinical Psychology
 Journal of Medical Internet Research
 Journal of Medical Genetics
 Nicotine & Tobacco Research
 Neuropsychology
 PLOS ONE
 Primary Care Diabetes,
 Preventive Medicine
 Statistics in Medicine
 Statistics & Probability Letters.

Grant Review and Advisory Panels

- [1] NIMH SEP (ZMH1 CRB-C07) PATS Sample Followup (2/04)
- [2] NIH SEP (ZRG1 HOP-M02) Behavioral Genetics & Epidemiology (3/04)
- [3] NIH Behavioral Genetics & Epidemiology IRG (6/04)
- [4] NIH Community-Level Health Promotion IRG (6/04)
- [5] NIH Behavioral Genetics & Epidemiology IRG(10/04)
- [6] NIH SEP (ZRG1 HOP-M02) Behavioral Genetics & Epidemiology (11/2004)
- [7] NIH Behavioral Genetics & Epidemiology IRG (2/05)
- [8] NIH Behavioral Genetics & Epidemiology IRG (6/05)
- [9] NIH Behavioral Genetics & Epidemiology IRG(10/05)
- [10] NIH SEP (ZRG1 HOP-T01) Mental Health Genetics (11/05)
- [11] NIH SEP (ZRG1 BBBP-D05) Depression & Developmental Disorders (2/06)
- [12] NIH Behavioral Genetics & Epidemiology IRG (2/06)
- [13] NIH SEP (ZRG1 HOP-T02) Behavioral Genetics & Epidemiology (3/06)
- [14] NIMH SEP (ZMH1 ERB-L07) Translational Neuroscience Centers (6/06)
- [15] NIH Behavioral Genetics & Epidemiology IRG (6/06)
- [16] NIH Behavioral Genetics & Epidemiology IRG (10/06)
- [17] NIH Behavioral Genetics & Epidemiology IRG (2/07)
- [18] NIAAA SEP (ZAA1 HH-88) Alcohol Research Centers (4/07)
- [19] NIMH SEP (ZMH1 ERB-L04) Translational Neuroscience Centers (6/07)

- [20] NIH Behavioral Genetics & Epidemiology IRG (6/07)
- [21] NIH Behavioral Genetics & Epidemiology IRG (10/07)
- [22] NIAAA SEP (ZAA1 BB-80) Alcohol Research Centers (5/08)
- [23] NIMH SEP (ZDA1 MXH-H16) Training in Genetics of Addiction (5/08)
- [24] NIH Behavioral Genetics & Epidemiology IRG (6/08)
- [25] NIMH SEP (ZMH1 ERB-L04) Translational Neuroscience Centers (7/08)
- [26] NIH Behavioral Genetics & Epidemiology IRG (2/09)
- [27] NIH Behavioral Genetics & Epidemiology IRG (10/09)
- [28] NIMH SEP (ZMH1 ERB-F09) Biosignature Discovery for Depression Tx (3/10)
- [29] NIMH SEP (ZMH1 ERB-F10) Adjunct Medication for Schizophrenia (5/10)
- [30] NIMH SEP (ZMH1 ERB-F11) Combined Treatment for Schizophrenia (6/10)
- [31] NIMH SEP (ZMH1 ERB-F03) Mood and Anxiety Disorders (2/11)
- [32] NIMH SEP(ZMH1 ERB-F01) Translational Research on Mental Disorders (9/11)
- [33] NIH SEP (ZRG1 PSE-K03) Behavioral Genetics & Epidemiology (10/11)
- [34] NIH SEP (ZRG1 PSE-C55) Accelerating Pace of Drug Abuse Research (2/12)
- [35] NIMH SEP (ZDA1 SXC-E) Training in Genetics of Addiction (11/12)
- [36] NEI SEP (ZEY1 VSN-04) Epidemiology and Genetics (7/13)
- [37] NIH SEP (ZRG1 PSE-S04) Behavioral Genetics & Substance Use (7/13)
- [38] NIH SEP (ZRG1 PSE-D03) Behavioral Genetics & Epidemiology (9/13)
- [39] NEI SEP (ZEY1 VSN-01) Cooperative Agreement & Clinical Applications (11/14)
- [40] NEI SEP (ZEY1 VSN-05) Clinical & Epidemiology Applications (7/15)
- [41] NCI SEP (ZCA1 SRB-XA1S) Comprehensive Partnerships to Advance Cancer Health Equity (6/16)
- [42] NEI SEP (ZEY1 VSN-02) Data Analysis & Epidemiology Applications (7/16)
- [43] NEI SEP (ZEY1 VSN-04) R21 Secondary Data Analysis (3/17)
- [44] NIH DoD-VA SEP (ZAT1 VS-05) Pain Management Collaboratory Demonstration Projects (7/17)
- [45] NEI SEP (ZEY1 VSN-04) Secondary Data Analysis (7/17)
- [46] NIH-FDA SEP(ZRG1 BST-W55) Tobacco Regulatory Science (12/17)
- [47] NIH-FDA SEP(ZRG1 BST-W55) Tobacco Regulatory Science (5/18)
- [48] NIH-FDA SEP(ZRG1 BST-T55) Tobacco Regulatory Science (6/18)
- [49] NIH-FDA SEP(ZRG1 BST-W55) Tobacco Regulatory Science (9/18)
- [50] NINDS SEP (ZNS1 SRB-H-03) HEAL: EPPIC NET Data Coordinating Center (4/19)
- [51] NCCIH SEP (ZAT1 JM-02) HEAL: Pragmatic studies to Reduce Opioid Prescribing (5/19)
- [52] NEI SEP (ZEY1 VSN-01) Genetic Epidemiology & Secondary Data Analysis (3/20)
- [53] NEI SEP (ZEY1 VSN-01) Clinical Trial & Secondary Data Analysis Applications (10/20)
- [54] NCCIH SEP (ZAT1 PJ-11) Coordinating Center for Clinical Trials of Mind & Body Interventions (11/20)
- [55] NEI SEP (ZEY1 VSN-01) Clinical Trial & Secondary Data Analysis Applications (10/21)
- [56] NCCIH SEP (ZAT1 SN-02) Health Care Systems Research Collaboratory – Coordinating Center (3/22)
- [57] NCCIH SEP (ZAT1 SN-05) HEAL Initiative: Sickle Cell Disease Pain Management Trials (3/22)
- [58] NIH DoD-VA SEP (ZAT1 SN-07) Pain Management Collaboratory Demonstration Projects (5/22))
- [59] NCCIH SEP (ZAT1 SN-08) Health Care Systems Research Collaboratory – Pragmatic Trials (10/22)
- [60] NCCIH SEP (ZAT1 SN-10) HEAL Initiative: Sickle Cell Disease Pain Management Trials (3/23)
- [61] NEI SEP (ZEY1 VSN-01) Clinical Trial Grant Applications (3/23)
- [62] NIH DoD-VA SEP (ZAT1 MH-06) Pain Management Collaboratory Demonstration Projects (12/23)
- [63] NEI SEP (ZEY1 VSN-01) Clinical Trial Grant Applications (4/25)
- [64] NIDA Clinical Trials Network (CTN-0160) Protocol Review Board (6/26)

Peer-Reviewed Publications

- [1] I. Guttman & G. D. Papandonatos (1997). "A Bayesian approach to a reliability problem: theory, analysis and interesting numerics", *Canadian Journal of Statistics*, 25(2):143–158.
- [2] G. D. Papandonatos, & S. Geisser (1997). "Laplace approximations for censored regression models", *Canadian Journal of Statistics*, 25(3):337–358.
- [3] F.A. Scannapieco, G. D. Papandonatos, & R. Dunford (1998). "Associations between oral conditions and respiratory disease in a national sample survey population", *Annals of Periodontology*, 3(1):251–256. PMID: 9722708.
- [4] R.L. Collins, E.T. Morsheimer, S. Shiffman, J.A. Paty, M. Gnys, & G.D. Papandonatos (1998). "Ecological momentary assessment in a behavioral drinking moderation program", *Experimental and Clinical Psychopharmacology*, 6(3):306–15. PMID: 9725114.
- [5] G. D. Papandonatos, & S. Geisser (1999). "Bayesian interim analysis of lifetime data", *Canadian Journal of Statistics*, 27(2):269-289.
- [6] R.G. Hewitt, G.D. Papandonatos, M.J. Shelton, C.-B. Hsiao, B.J. Harmon, S.R. Kaczmarek, & Amsterdam, D. (1999). "Prevention of disseminated mycobacterium avium complex infection with reduced dose clarithromycin in patients with advanced HIV disease.", *AIDS*, 13(11):1367–1372. PMID: 10449290.
- [7] Y.G. Gollin, C. Gracia, G. Gollin, C. Marks, W. Marks, & G.D. Papandonatos (1999). "Effect of maternal diabetes on the fetal exocrine pancreas", *Early Human Development*, 53(3):179–83. PMID: 10088986.
- [8] D.J. Sucato, B. Rougraff, B.E. McGrath, J. Sizinski, M. Davis, G.D. Papandonatos, D. Green, T. Szarzanowicz, & E.R. Mindell (2000). "Ewing's sarcoma of the pelvis. Long-term survival and functional outcome", *Clinical Orthopaedics and Related Research*, 373:193–201. PMID: 10810477.
- [9] B. Hitsman, B. Spring, B. Borrelli, R. Niaura, & G.D. Papandonatos (2001). "Influence of antidepressant pharmacotherapy on behavioral treatment adherence and smoking cessation outcome in a combined treatment involving fluoxetine", *Experimental and Clinical Psychopharmacology*, 9(4):355–362. PMID: 11764011.
- [10] B. Borrelli, B. Spring, R. Niaura, B. Hitsman, & G.D. Papandonatos (2001). "Influences of gender and weight gain on short-term relapse to smoking in a cessation trial", *Journal of Consulting and Clinical Psychology*, 69(3):511–515. PMID: 11495180.
- [11] B. Borrelli, J. Hecht, G.D. Papandonatos, K.M., Emmons, B.A., Tatevosian, & D.B. Abrams (2001). "Smoking-cessation counseling in the home. Attitudes, beliefs, and behaviors of home healthcare nurses", *American Journal of Preventive Medicine*, 21(4), 272–277. PMID: 11701297.
- [12] B. Borrelli, E.L. McQuaid, B. Becker, K. Hammond, G.D. Papandonatos, G. Fritz, & D.B. Abrams (2002). "Motivating parents of kids with asthma to quit smoking: the PAQS project", *Health Education Research*, 17(5):659–669. PMID: 12408210.
- [13] J.D. DePue, M.G. Goldstein, A. Schilling, P. Reiss, G.D. Papandonatos, C. Sciamanna, & A. Kazura (2002). "Dissemination of the AHCPR clinical practice guideline in community health centres", *Tobacco Control*, 11(4):329–335. PMID: 12432158. PMCID: PMC1747684.
- [14] E.E. Lloyd-Richardson, G.D. Papandonatos, A. Kazura, R. Niaura, & C. Stanton (2002). "Differentiating stages of smoking intensity among adolescents: stage-specific psychological and social influences", *Journal of Consulting and Clinical Psychology*, 70(4):998–1009. PMID: 12182283.
- [15] B.R. Ott, W.C. Heindel, & G.D. Papandonatos (2003). "A survey of voter participation by cognitively impaired elderly patients", *Neurology*, 60(9):1546–1548. PMID: 12743253.
- [16] S.P. David, R.S. Niaura, G.D. Papandonatos, W.G. Shadel, Gary J. Burkholder, D.M. Britt, A. Day, J. Stumpff, K. Hutchison, M. Murphy, E. Johnstone, S.-E. Griffiths, & R.T. Walton (2003). "Does the DRD2-TaqlA polymorphism influence treatment response to bupropion hydrochloride for reduction of the nicotine withdrawal syndrome?", *Nicotine & Tobacco Research*, 5(6):935–942. PMID: 14668077.
- [17] B. Borrelli, G.D. Papandonatos, B. Hitsman, B. Spring, & R. Niaura (2004). "Experimenter-defined quit dates for smoking cessation: adherence improves outcomes for women but not for men", *Addiction*, 99:378–385. PMID: 14982551.

- [18] B. Borrelli, S. Novak, J. Hecht, K. Emmons, G.D. Papandonatos, & D.B. Abrams (2005). "Home health care nurses as a new channel for smoking cessation treatment: outcomes from project CARES (Community-nurse Assisted Research and Education on Smoking)", *Preventive Medicine*, 41(5-6): 815-821. PMID: 16182355.
- [19] V. Mor, G.D. Papandonatos, & S.C. Miller (2005). "End-of-life hospitalization for African American and non-Latino white nursing home residents: variation by race and a facility's racial composition", *Journal of Palliative Medicine*, 8(1):58-68. PMID: 15662174.
- [20] L. Laliberte, M.L. Fennell, G.D. Papandonatos (2005). "The relationship of membership in research networks to compliance with treatment guidelines for early-stage breast cancer.", *Medical Care*, 43(5):471-479. PMID: 15838412.
- [21] L.B. Brown, B.R. Ott, G.D. Papandonatos, Y. Sui, R.E. Ready, & J.C. Morris (2005). "Prediction of on-road driving performance in patients with early Alzheimer's disease", *Journal of the American Geriatrics Society*, 53(1):94-98. PMID: 15667383. PMCID: PMC3292197.
- [22] B.R. Ott, D. Anthony, G.D. Papandonatos, A. D' Abreu, J. Burock, A. Curtin, C.-K. Wu, & J.C. Morris (2005). "Clinician assessment of the driving competence of patients with dementia", *Journal of the American Geriatrics Society*, 53(5):829-833. PMID: 15877559. PMCID: PMC3292185.
- [23] N.K. Cobb, A.L. Graham, B.C. Bock, G.D. Papandonatos, & D.B. Abrams (2005). "Initial evaluation of a real-world Internet smoking cessation system", *Nicotine & Tobacco Research*, 7(2): 207-216. PMID: 16036277. PMCID: PMC2885701.
- [24] A.L. Graham, G.D. Papandonatos, B.C. Bock, N. Cobb, A. Baskin-Sommers, D.B. Abrams, & R. Niaura (2006). "Internet- vs. telephone-administered questionnaires in a randomized trial of smoking cessation", *Nicotine & Tobacco Research*, 8(S1): S49-S57. PMID: 17491171. PMCID: PMC2881295.
- [25] S.C. Miller, G.D. Papandonatos, M. Fennell, & V. Mor (2006). "Facility and county effects on racial differences in nursing home quality indicators", *Social Science & Medicine*, 63(12):3046-3059. PMID: 16997439.
- [26] K. Forcier, L.R. Stroud, G.D. Papandonatos, B. Hitsman, M. Reichles, J. Krisnamoorthy, & R. Niaura (2006). "Links between physical fitness and cardiovascular reactivity and recovery to psychological stressors: a meta-analysis", *Health Psychology*, 25(6):723-739. PMID: 17100501.
- [27] M.A. Napolitano, H. Lerch, G.D. Papandonatos, & B.H. Marcus (2006). "Worksite & communications-based promotion of a local walking path", *Journal of Community Health*, 31(4):326-342. PMID: 16894829.
- [28] M.A. Napolitano, J.A. Whiteley, G.D. Papandonatos, G. Dutton, N.C. Farrell, A. Albrecht, B. Bock, T. Bazzarre, A. Dunn, & B.H. Marcus (2006). "Outcomes from the women's wellness project: a community-focused physical activity trial for women", *Preventive Medicine*, 43(6):447-453. PMID: 16919322.
- [29] D.M. Williams, G.D. Papandonatos, M.A. Napolitano, B.A. Lewis, J.A. Whiteley, & B.H. Marcus (2006). "Examining physical activity enjoyment as a moderator of a tailored physical activity intervention", *Journal of Sport and Exercise Psychology*, 28(3):300-309.
- [30] B.H. Marcus, M.A. Napolitano, A.C. King, B.A. Lewis, J.A. Whiteley, A.E. Albrecht, A.F. Parisi, B.C. Bock, B.M. Pinto, C.A. Sciamanna, J.M. Jakicic, & G.D. Papandonatos (2007). "Examination of print and telephone channels for physical activity promotion: rationale, design, and baseline data from Project STRIDE", *Contemporary Clinical Trials*, 28(1):90-104. PMID: 16839823.
- [31] B.H. Marcus, M.A. Napolitano, A.C. King, B.A. Lewis, J.A. Whiteley, A. Albrecht, A.F. Parisi, B. Bock, B. Pinto, C. Sciamanna, J. Jakicic, & G.D. Papandonatos (2007). "Telephone versus print delivery of an individualized motivationally tailored physical activity intervention: Project STRIDE", *Health Psychology*, 26(4):401-409. PMID: 17605559.
- [32] M.A. Seivick, M.A. Napolitano, G.D. Papandonatos, A. Gordon, L. Reiser, & B.H. Marcus (2007). "Cost-effectiveness of alternative approaches for motivating activity in sedentary adults: results of Project STRIDE", *Preventive Medicine*, 45:54-61. PMID: 17573103. PMCID: PMC2762938.
- [33] L.R. Stroud, C. Solomon, E. Shenassa, G.D. Papandonatos, R. Niaura, L. Lipsitt, K. LeWinn, & S.L. Buka (2007). "Long-term stability of maternal prenatal steroid hormones from the National Collaborative Perinatal Project: still valid after all these years", *Psychoneuroendocrinology*, 32(2):140-150. PMID: 17270355. PMCID: PMC2693201.

- [34] J.D. DePue, B. McCabe, A. Kazura, B. Becker, G.D. Papandonatos, T. Chun, & K. Emmons (2007). "Assessment of parents' smoking behaviors at a pediatric emergency department", *Nicotine & Tobacco Research*, 9(1):33–41. PMID: 17365734.
- [35] R.K. Bhalla, G.D. Papandonatos, R.A. Stern, & B.R. Ott (2007). "Anxiety of Alzheimer's disease patients before and after a standardized on-road driving test", *Alzheimer's & Dementia*, 3(1):33–39. PMID: 19595915.
- [36] S.P. David, R.A. Brown, G.D. Papandonatos, C.W. Kahler, E.E. Lloyd-Richardson, M.R. Munafo, P.G. Shields, C. Lerman, D. Strong, J.M. McCaffery, & R. Niaura (2007). "Pharmacogenetic clinical trial of sustained-release bupropion for smoking cessation". *Nicotine & Tobacco Research*, 9(8):821–833. PMID: 17654295. PMCID: PMC2039873.
- [37] J.M. McCaffery, G.D. Papandonatos, M.J. Lyons, K.C. Koenen, M.T. Tsuang, & R. Niaura (2007). "Educational attainment, smoking initiation, and lifetime nicotine dependence among male Vietnam-era Twins", *Psychological Medicine*, 38(9):1287–1297. PMID: 17949517. PMCID: PMC2532060.
- [38] C.A. Stanton, G.D. Papandonatos, E.E. Lloyd-Richardson, & R. Niaura (2007). "Consistency of self-reported smoking over a 6-year interval from adolescence to young adulthood", *Addiction*, 102(11):1831–1839. PMID: 17784897. PMCID: PMC3500030.
- [39] E.E. Lloyd-Richardson, C.A. Stanton, G.D. Papandonatos, R.M. Betancourt, M. Stein, K. Tashima, Morrow K., & R. Niaura (2008). "HIV-positive smokers considering quitting: differences by race and ethnicity", *American Journal of Health Behavior*, 32(1):3–15. PMID: 18021029. PMCID: PMC2538375.
- [40] C.W. Kahler, D.R. Strong, G.D. Papandonatos, S. Colby, M. Clark, J. Boergers, R. Niaura, D.B. Abrams, & S.L. Buka (2008). "Cigarette smoking and the lifetime alcohol involvement continuum", *Drug and Alcohol Dependence*, 93(1–2):111–120. PMID: 17964082. PMCID: PMC2634750.
- [41] A.L. Graham, & G.D. Papandonatos (2008). "Reliability of internet- versus telephone-administered questionnaires in a diverse sample of smokers", *Journal of Medical Internet Research*, 10(1):e8. PMID: 18364345. PMCID: PMC2483847.
- [42] A.L. Graham, G.D. Papandonatos, J.D. DePue, B.M. Pinto, B. Borrelli, C.J. Neighbors, R. Niaura, S.L. Buka, & D.B. Abrams (2008). "Lifetime characteristics of participants and non-participants in a smoking cessation trial: implications for external validity and public health impact", *Annals of Behavioral Medicine*, 35(3):295–307. PMID: 18414962.
- [43] B.M. Pinto, C. Rabin, S. Abdow, & G.D. Papandonatos (2008). "A pilot study on disseminating physical activity promotion among cancer survivors: a brief report", *Psycho-Oncology*, 17(5):517–521. PMID: 17847122.
- [44] B.M. Pinto, C. Rabin, G.D. Papandonatos, G.M. Frierson, J.J. Trunzo, & B.H. Marcus (2008). "Maintenance of effects of a home-based physical activity intervention among breast cancer survivors", *Supportive Care in Cancer*, 16(11):1279–1289. PMID: 18414905. PMCID: PMC2747581.
- [45] M.A. Napolitano, G.D. Papandonatos, B.A. Lewis, J.A. Whiteley, D.M. Williams, A.C. King, B.C. Bock, B.M. Pinto, & B.H. Marcus (2008). "Mediators of physical activity behavior change: a multivariate approach", *Health Psychology*, 27(4):409–418. PMID: 18642998. PMCID: PMC2692944.
- [46] D.M. Williams, B.A. Lewis, S. Dunsiger, J.A. Whiteley, G.D. Papandonatos, M.A. Napolitano, B.C. Bock, J.T. Ciccolo, & B.H. Marcus (2008). Comparing psychosocial predictors of physical activity adoption and maintenance. *Annals of Behavioral Medicine*, 6(2):186–194. PMID: 18777124. PMCID: PMC2721457.
- [47] J.M. McCaffery, G.D. Papandonatos, C.A. Stanton, E.E. Lloyd-Richardson, & R. Niaura (2008). "Depressive symptoms and cigarette smoking in twins from the National Longitudinal Study of Adolescent Health", *Health Psychology*, 27(3, Suppl):S207–S215. PMID: 18979973.
- [48] J.M. McCaffery, G.D. Papandonatos, M.J. Lyons, & R. Niaura (2008). "Educational attainment and heritability of self-reported hypertension among male Vietnam-era twins", *Psychosomatic Medicine*, 70:781–786. PMID: 18725432. PMCID: PMC4767498.
- [49] J.M. McCaffery, G.D. Papandonatos, D. Bond, M.J. Lyons, & R.R. Wing (2009). "Gene x Environment interaction of vigorous exercise and body mass index among male Vietnam-era twins", *American Journal of Clinical Nutrition*, 89(4):1011–1018. PMID:19225119. PMCID: PMC2667452.

- [50] R.R. Wing, G.D. Papandonatos, J.L. Fava, A.A. Gorin, S. Phelan, J.M. McCaffery, & D.F. Tate (2008). "Maintaining large weight losses: the role of behavioral and psychological factors", *Journal of Consulting & Clinical Psychology*, 76(6):1015–1021. PMID: 19045969. PMCID: PMC2677901.
- [51] B.R. Ott, W.C. Heindel, G.D. Papandonatos, E.K. Festa, J.D. Davis, L.A. Daiello, & J.C. Morris (2008). "A longitudinal study of drivers with dementia", *Neurology*, 70(14):1171–1178. PMID: 18216302.
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Publications under Review or Invited Revision

- [1] W.C. Heindel, J.K. Blujus, G.D. Papandonatos, M.L. Rogers, E. Festa, & S.L. Buka. “Independent contributions of childhood cognitive ability and educational attainment to adult cognition across multiple domains”, *Intelligence*, under review.
- [2] S.L. Buka, G.D. Papandonatos, J.A. Donatelli, M.L. Rogers, E. Festa, & W.C. Heindel. “Preschool Cognitive Performance and Adult Cognitive Functioning Across 30 Years: A Lifespan Developmental Study”, *Developmental Psychology*, under review.

Non-Peer Reviewed Publications

- [1] L.R. Stroud, G.D. Papandonatos, D.E. Williamson, & R.E. Dahl (2004). “Sex differences in the effects of pubertal development on response to CRH challenge: the Pittsburgh Psychobiologic Studies”, *Annals of the NY Academy of Sciences*, 1021: 348–351. PMID: 15251908.
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Book Chapters

- [1] G. D. Papandonatos (1998). “Bayesian analysis of Weibull regression models with Gamma frailties”, *Statistics in the Health Sciences: Diagnosis & Prediction* (ed. S. Geisser). The IMA Volumes in Mathematics & its Applications, 114:91–108. New York, NY: Springer Verlag.
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Letters to the Editor

- [1] A.H. Weinberger, B. Hitsman, G.D. Papandonatos, K.A. Sacco, J.C. Vessicchio, & T.P. George (2009). “Predictors of abstinence and changes in psychiatric symptoms from a pooled sample of smokers with schizophrenia receiving combination pharmacotherapy and behavioral therapy for smoking cessation”, *Journal of Clinical Psychopharmacology*, 29(6):601–603. PMID 19910728.
- [2] A.L. Graham, G.D. Papandonatos, & K. Zhao (2017). “The failure to increase social support: it just might be time to stop intervening (and start rigorously observing)”, *Translational Behavioral Medicine*, 7(4): 816–820. PMID: 28070778. PMCID: PMC5684060.
- [3] S.A. Margolis, E.K. Festa, G.D. Papandonatos, L.E. Korthauer, M.A. Gonsalves, L. Oberman, W.C. Heindel, & B.R. Ott. (2019). “A Pilot Study of Repetitive Transcranial Magnetic Stimulation in Primary Progressive Aphasia”, *Brain Stimulation*, 12(5):1340-1342. PMID: 31186160.

International Conference Presentations

- [1] G.D. Papandonatos, R. Rende, R. Niaura & E. Lloyd-Richardson. "Smoking progression among adolescents: a sibling study". Paper presented at 22nd Annual Meeting of the *Behavioral Genetics Association*, Cambridge, U.K., July 2001.
- [2] G.D. Papandonatos, J.M. McCaffery, E. Lloyd-Richardson, C. Stanton, & R. Niaura. "Covariation of smoking initiation and depressive symptoms among adolescent twins". Paper presented at "Psychiatric comorbidity and the nicotine dependence phenotype" Symposium of the 11th Annual Meeting of the *Society for Research on Nicotine & Tobacco*, Prague, Czech Republic, March 2005.
- [3] B. Erar, G.D. Papandonatos, A.L. Graham, & C.A. Stanton. "Propensity model evaluation of the effects of online social network participation on promoting smoking cessation". Paper presented at 8th Conference of the Eastern Mediterranean Region of the International Biometric Society, Nevsehir, Turkey, May 2015.
- [4] B. Erar & G.D. Papandonatos. "Adaptive Bayesian whole genome regression for predicting responsiveness to treatment in randomized clinical trials". Poster presented at the 25th Annual Meeting of the *International Genetic Epidemiology Society*, Toronto, Canada, October 2016.
- [5] G.D. Papandonatos, A. Carroll, A. Mathew, R. Niaura, R.A. Schnoll, & B. Hitsman. "Do antidepressant smoking cessation treatments produce the best outcome for depressed smokers?" Paper presented at the 75th Annual Meeting of the *American Psychosomatic Society*, Seville, Spain, March 2017.
- [6] B. Erar, & G.D. Papandonatos. "Predicting genetic predisposition to treatment responsiveness in randomized clinical trials using Bayesian whole genome regression." Paper presented at the 9th meeting of the Eastern Mediterranean Region of the International Biometric Society (EMR-IBS), Thessaloniki, Greece, May 2017.

National Conference Presentations

- [1] G.D. Papandonatos, B. Borrelli, & S.-Y. Shiu. "Application of latent trait modeling in health research: NCI four A's for smoking cessation". Paper presented at the 22nd Annual Meeting of the *Society for Behavioral Medicine*, Seattle WA, March 2001.
- [2] G.D. Papandonatos, R. Niaura and B. Bock. "Handling informative missingness in longitudinal studies of smoking cessation". Poster presented at the 7th Annual Meeting of the *Society for Research on Nicotine & Tobacco*, Seattle, WA, March 2001.
- [3] G.D. Papandonatos. "Adherence with AHCPR guidelines in a study of smoking cessation". Paper presented at an Invited Session on "IRT Modeling: Applications to Health Policy". Annual Meeting of the *American Statistical Association*, Atlanta, GA, August 2001.
- [4] G.D. Papandonatos, R. Niaura, & S.Y. Shiu. "Full-information item-level factor analysis of the Fagerstrom Tolerance Questionnaire". Paper presented at the Annual Meeting of the *American Statistical Association*, New York, NY, August 2002.
- [5] R. Niaura, G.D. Papandonatos, E. Lloyd-Richardson, S.Y. Shiu, & R. Brown. "Full-information item-level factor Analysis of the DSM-IV criteria for nicotine dependence". Paper presented at 24th Annual Meeting of the *Society for Behavioral Medicine*, Salt Lake City, UT, March 2003.
- [6] G.D. Papandonatos, S.C. Miller, V. Mor & M. Fennell. "Quasilielihood estimation of multilevel models". Paper presented at the 2003 International Conference on Health Policy Research. Chicago, IL, October 2003.
- [7] G.D. Papandonatos, S.L. Santangelo, J.M. McCaffery, M. Lyons, M.T. Tsuang, R. Niaura, & S. Buka. "Association of the serotonin transporter gene with nicotine dependence". Paper presented at the 35th Annual Meeting of the *Behavior Genetics Association*, Hollywood, CA, July 2005.
- [8] G.D. Papandonatos, M.A. Napolitano, B.A. Lewis, J.A. Whiteley, D.M. Williams, A.C. King, B.C. Bock, B.M. Pinto, & B.H. Marcus. "Mediators of physical activity behavior change: A multivariate approach". Paper presented at the "Innovative methods for examining mediation in randomized controlled clinical trials" Symposium, 29th Annual Meeting of the *Society for Behavioral Medicine*, San Diego, CA, March 2008.
- [9] B. Erar, G.D. Papandonatos & A.L. Graham. "Smoking Outcomes in Internet Interventions: Evaluating the sensitivity of treatment effect estimates". Poster presented at the 2018 International Conference on Health Policy Research. Charleston, SC, January, 2018.

Research Grants Completed (Center of Statistical Sciences Portion of Total Cost: \$8,953,613)

- [1] *Multilevel Compliance Model of Breast Cancer Treatments*
Role: Co-Investigator
Principal Investigator: Dr. Mary Fennell
Agency: NCI/Brown University
Type: 1R01 CA074185
Period: January 1, 1998 to December 31, 1999
Total Cost: \$18,637
A project to examine the determinants on non-compliant treatment among a sample of older women with early stage breast cancer from the SEER-Medicare linked databases.

- [2] *Nursing Home Care at the End-of Life: Cost & Quality*
Role: Co-Investigator
Principal Investigators: Drs. Vincent Mor & Susan Miller
Agency: Brown/AHCPR
Total Cost: \$45,890 \$ (CSS Portion)
Type: 5R01 HS10549
Period: October 1, 1999 to June 30, 2000
A study of Medicare and Medicaid costs for NH decedents in the last year of life, their distribution by category, and of the impact of Medicare hospice enrollment on hospitalization at the end of life.

- [3] *Facility Effects on Racial Differences in Nursing Home Quality*
Role: Co-Investigator
Principal Investigator: Dr. Mary Fennell
Agency: AHRQ/Brown University
Type: 1R01 HS010322
Period: October 1, 1999 to September 30, 2001
Total Cost: \$44,379 (CSS portion)
An exploration of the interplay of race and facility characteristics in determining the Quality of Care received by vulnerable individuals residing in U.S. nursing homes.

- [4] *Immunizing Against Tobacco Use in Pediatric Health Care*
Role: Co-Investigator (subcontract PI)
Principal Investigator: Dr. Raymond Niaura
Agency: NIDA/Miriam Hospital Subcontract
Type: 1R01 DA012529
Period: October 1, 1998 to August 31, 2002
Total Cost: \$62,910
A longitudinal comparison of two interventions designed to prevent or delay smoking in adolescents.

- [5] *Innovative Approaches to Disease Prevention through Behavior Change*
Role: Co-Investigator (subcontract PI)
Principal Investigator: Dr. Belinda Borrelli
Agency: NHLBI/Miriam Hospital Subcontract
Type: 1R01 HL062165
Period: August 1, 1999 to July 31, 2003
Total Cost: \$155,209
A comparison of two smoking cessation interventions among parents of children with asthma.

- [6] *Smoking Cessation in the Chest Pain Observation Unit*
Role: Co-Investigator (subcontract PI)
Principal Investigator: Dr. Beth Bock
Agency: NHLBI/Miriam Hospital Subcontract
Type: 1R01 HL60986

Period: August 1, 1999 to July 31, 2003

Total Cost: \$108,118

A study of the efficacy of a smoking cessation intervention during the ‘teachable moment’ provided by visits to the chest pain observation unit.

[7] *Nicotine Dependence: Risk and Recovery over Generations*

Role: Director of Biostatistics Core (subcontract PI)

Principal Investigator: Dr. David Abrams

Agency: NCI/Miriam Hospital Subcontract

Type: 1P50 CA084719

Period: September 30, 1999 to September 29, 2004

Total Cost: \$514,333

A project to design and implement (a) studies of trajectories and pathways of smoking initiation and progression to nicotine dependence, and (b) examine the role of premorbid, comorbid, and dependence factors in lifetime smoking patterns and in trajectories and pathways to smoking cessation.

[8] *Smoking Cessation in Emergency Respiratory Patients*

Role: Co-Investigator (subcontract PI)

Principal Investigator: Dr. Beth Bock

Agency: NHLBI/The Miriam Hospital Subcontract

Type: 1R01 HL065595

Period: July 1, 2000 to June 30, 2004

Total Cost: \$107,856

A study of the efficacy of a smoking cessation intervention during the ‘teachable moment’ provided by ER visits of patients with respiratory problems.

[9] *Exercise Instruction via Phone or Print*

Role: Co-Investigator (subcontract PI)

Principal Investigator: Dr. Bess Marcus

Agency: NHLBI/The Miriam Hospital Subcontract

Type: 1R01 HL064342

Period: October 1, 2000 to September 30, 2004

Total Cost: \$121,031

A longitudinal randomized clinical trial to evaluate the effects of an exercise counseling program delivered by either phone or print as compared to a waiting list control group.

[10] *A Longitudinal Study of Hazardous Drivers with Dementia*

Role: Co-Investigator (subcontract PI)

Principal Investigator: Dr. Brian Ott

Agency: NIA/Memorial Hospital Subcontract

Type: 1R01 AG1016355

Period: October 1, 2001 to April 30, 2007

Total Cost: \$95,266

A longitudinal study of driving impairment among patients with dementia as it relates to changes in visual perception, visual attention, and executive function over the course of the disease.

[11] *Economic Impact of Tobacco Use Across the Life Span*

Role: Co-Investigator (subcontract PI)

Principal Investigator: Dr. Charles Neighbors

Agency: RWJF/The Miriam Hospital Subcontract

Type: RWJF 044595

Period: January 15, 2002 to December 14, 2007

Total Cost: \$58,560

An analysis of family-level data to more accurately estimate costs associated with smoking.

- [12] *Evaluating Self-Help Programs for Exercise Adoption and Maintenance in Women*
 Role: Co-Investigator (subcontract PI)
 Principal Investigator: Dr. Melissa Napolitano
 Agency: RWJF/The Miriam Hospital Subcontract
 Type: RWJF-044224
 Period: February 15, 2002 to February 14, 2005
 Total Cost: \$70,345
 A randomized clinical trial to compare three self-help programs for exercise adoption and maintenance in terms of their effectiveness of the two programs and to test their public health impact.
- [13] *Computerized Physical Activity Promotion in Primary Care*
 Role: Co-Investigator (subcontract PI)
 Principal Investigator: Dr. Christopher Sciamanna
 Agency: NHLBI/The Miriam Hospital Subcontract
 Type: 1R01 HL067005
 Period: June 1, 2003 to May 31, 2004
 Total Cost: \$33,405
 A study of the effects of computerized physical activity reports (patient & physician) on patients' physical activity levels and endurance fitness
- [14] *Physical Activity Promotion in Cancer Follow-up Care*
 Role: Co-Investigator (subcontract PI)
 Principal Investigator: Dr. Bernie Pinto
 Agency: ACS/The Miriam Hospital Subcontract
 Type: RSGPH 03-243-01-PBP
 Period: July 1, 2003 to June 30, 2009
 Total Cost: \$103,043
 A two-group comparison (Brief vs. Extended Advice) for physical activity among patients that have completed treatment for breast or colorectal cancer.
- [15] *SES, Cardiovascular Health and Health Behaviors in Vietnam-Era Male Twins*
 Role: Co-Investigator (subcontract PI)
 Principal Investigator: Dr. Jeanne McCaffery
 Agency: NHLBI/The Miriam Hospital Subcontract
 Type: 1R01 HL072819
 Period: June 1, 2004 to May 31, 2007
 Total Cost: \$90,777
 A study of Gene by Environment interactions on cardiovascular health among Vietnam-Era Male Twins, especially of the relationship between educational attainment, smoking, and hypertension.
- [16] *Maintaining Exercise after Cardiac Rehabilitation*
 Role: Co-Investigator (subcontract PI)
 Principal Investigator: Dr. Bernardine Pinto
 Agency: NHLBI/The Miriam Hospital Subcontract
 Type: 5R01 HL076734
 Period: July 1, 2004 to May 31, 2010
 Total Cost: \$92,105
 A two-group comparison (Brief vs. Extended Advice) for long-term exercise maintenance among patients that have completed a Phase II cardiac rehabilitation program.
- [17] *Internet and Telephone Treatment for Smoking Cessation*
 Role: Co-Investigator (subcontract Co-I)
 Principal Investigator: Dr. Amanda Graham
 Agency: NCI/Georgetown University Subcontract
 Type: 1R01 CA104836

Period: August 25, 2004 to May 31, 2010

Total Cost: \$171,370

A comparison of the efficacy and cost-effectiveness of a premium web-based intervention, alone or in conjunction with proactive telephone counseling to access to a non-interactive control website.

[18] *Promoting Physical Activity after Colorectal Cancer*

Role: Co-Investigator (subcontract PI)

Principal Investigator: Dr. Bernardine Pinto

Agency: NCI/The Miriam Hospital Subcontract

Type: 1R01 CA101770

Period: September 15, 2004 to June 30, 2011

Total Cost: \$91,314

A randomized controlled clinical trial for moderate-intensity physical activity among patients that have completed treatment for breast or colorectal cancer.

[19] *Nicotine Dependence: Phenotype, Endophenotype and Contexts*

Role: Director of Biostatistics Core (subcontract co-I)

Principal Investigator: Dr. Raymond Niaura

Agency: NCI/Butler Hospital Subcontract

Type: 2P50 CA084719

Period: September 30, 2004 to July 31, 2010

Total Cost: \$468,602

A project to conduct a family study of genetic/familial influences on lifetime patterns of tobacco use phenotypes and comorbid psychiatric disorders; conduct an fMRI study of sib pairs discordant for these tobacco use phenotypes; and examine mediation and moderation of the influence of neighborhood factors on the progression of tobacco use, alcohol and other drug use in adolescents.

[20] *Reducing Ethnic Health Disparities: Motivating HIV-positive Latino to Quit Smoking*

Role: Co-Investigator (subcontract PI)

Principal Investigator: Dr. Cassandra Stanton

Agency: NIDA/Butler Hospital Subcontract

Type: 1R01 DA018079

Period: August 1, 2005 to July 31, 2012

Total Cost: \$220,573

A culturally-tailored smoking cessation intervention for a low -income Latino HIV+ population.

[21] *Prenatal Smoking, Fetal Behavior and Infant Withdrawal*

Role: Co-Investigator (subcontract PI)

Principal Investigator: Dr. Laura Stroud

Agency: NCI/The Miriam Hospital Subcontract

Type: 1R01 DA019558

Period: December 1, 2005 to November 30, 2012

Total Cost: \$136,568

A naturalistic study of the effect of maternal smoking during pregnancy on offspring neurobehavior during the fetal and early neonatal period.

[22] *Achieving Physical Activity Guidelines Through an Enhanced Print Intervention*

Role: Co-Investigator (subcontract PI)

Principal Investigator: Dr. Bess Marcus

Agency: NHLBI/The Miriam Hospital Subcontract

Type: 5R01 HL064342

Period: May 1, 2006 to June 30, 2011

Total Cost: \$174,739

A randomized clinical trial of two print-based interventions aimed at enhancing physical activity.

- [23] *Naturalistic Assessment of the Driving Ability of Cognitively Impaired Elders*
 Role: Co-Investigator (subcontract PI)
 Principal Investigator: Dr. Brian Ott
 Agency: NIA/Rhode Island Hospital subcontract
 Type: 5R01 AG101355
 Period: May 1, 2007 to April 30, 2012
 Total Cost: \$141,890
 A comparative evaluation of the driving ability of cognitively-impaired elders both in their natural environment and via a road test.
- [24] *Maternal Depression, Placental HPA Regulation and Fetal/Neonatal Stress Response*
 Role: Co-Investigator (subcontract PI)
 Principal Investigator: Dr. Laura Stroud
 Agency: NIMH/The Miriam Hospital Subcontract
 Type: 1R01 MH079153
 Period: September 1, 2007 to July 31, 2010
 Total Cost: \$231,040
 A naturalistic study of the effect of maternal depression during pregnancy on offspring neurobehavior.
- [25] *Psychosocial Telephone Intervention for Dementia Caregiver Burden*
 Role: Co-Investigator (subcontract PI)
 Principal Investigator: Dr. Geoffrey Tremont
 Agency: NINR/Rhode Island Hospital Subcontract
 Type: 1R01 NR010559
 Period: September 28, 2007 to May 31, 2013
 Total Cost: \$182,091
 Test the efficacy of a multi-component family-based telephone intervention in reducing levels of depression and anxiety, feelings of burden and stress, and family functioning for dementia caregivers.
- [26] *Reducing Violence against Women with Alcoholic Partners*
 Role: Co-Investigator (subcontract PI)
 Principal Investigator: Dr. Robert Rychtarik
 Agency: NIAAA/SUNY-RIA Subcontract
 Type: 1R01 AA0167991
 Period: May 1, 2008 to October 31, 2014
 Total Cost: \$179,275
 Evaluate the effectiveness of a Coping Skills Training program relative to a self-help treatment arm and a delayed-treatment control group.
- [27] *Community Volunteers Promoting Physical Activity Among Cancer Survivors*
 Role: Co-Investigator (subcontract PI)
 Principal Investigator: Dr. Bernardine Pinto
 Agency: NCI/The Miriam Hospital Subcontract
 Type: 1R01 CA132854
 Period: January 1, 2009 to November 30, 2013
 Total Cost: \$42,644
 Assess longitudinal changes in distress, worry, coping and quality of life of cancer patients required to attend follow-up visits for continued surveillance.

- [28] *Gene X Behavior Interaction in the Look AHEAD study*
 Role: Co-Investigator (subcontract PI)
 Principal Investigators: Drs. Rena Wing & Jeanne McCaffery (Multiple PI Mechanism)
 Agency: OBSSR/NIDDK/The Miriam Hospital Subcontract
 Type: 3U01 DK056992
 Period: August 1, 2009 to July 31, 2014
 Total Cost: \$209,836
 Identify genes that may interact with behavioral lifestyle modification interventions in predicting weight loss at the 12-month follow-up of the Look AHEAD sample.
- [29] *Increasing Sleep Duration: a Novel Approach to Weight Control*
 Role: Co-Investigator (subcontract PI)
 Principal Investigator: Dr. Rena Wing
 Agency: NCI/The Miriam Hospital Subcontract
 Type: 5U01 CA150387
 Period: September 28, 2009 to February 28, 2015
 Total Cost: \$106,025
 Compare weight-related outcomes among subjects assigned to an increased sleep duration modification of standard weight loss programs.
- [30] *A State-Wide Initiative to Spread Effective Behavioral Weight Loss Strategies*
 Role: Co-Investigator (subcontract PI)
 Principal Investigator: Dr. Rena Wing
 Agency: NIDDK/The Miriam Hospital Subcontract
 Type: 1R18 DK083248
 Period: July 1, 2010 to June 30, 2015
 Total Cost: \$103,660
 Compare weight-related outcomes among subjects assigned to an Enhanced version of the Shape-Up RI program versus a Standard arm.
- [31] *Genetic and Behavioral Effects on High-Density Lipoprotein: The Look AHEAD Study*
 Role: Co-Investigator (subcontract PI)
 Principal Investigator: Dr. Jeanne McCaffery
 Agency: NIDDK/The Miriam Hospital Subcontract
 Type: 1R01 DK090043
 Period: March 1, 2011 to February 28, 2014
 Total Cost: \$138,439
 Evaluate gene by treatment interaction models for HDL outcomes in a randomized clinical trial comparing behavioral therapy to a control condition, and explore potential mediation of these interactions via specific aspects of behavioral change related to weight loss, e.g. diet and exercise.
- [32] *Acceptance-Based Behavioral Intervention for Weight Loss: a Randomized Trial*
 Role: Co-Investigator (subcontract PI)
 Principal Investigator: Dr. Rena Wing
 Agency: NIDDK/The Miriam Hospital Subcontract
 Type: 1R01 DK087704
 Period: April 15, 2011 to March 31, 2015
 Total Cost: \$76,924
 Compare weight-regain outcomes among subjects assigned to an acceptance-based behavioral intervention, versus those enrolled in a standard care weight-loss program.

- [33] *A Randomized Trial Testing Health Coaches for Obesity Treatment*
 Role: Co-Investigator (subcontract PI)
 Principal Investigator: Dr. Patricia Leahey
 Agency: NIDDK/The Miriam Hospital Subcontract
 Type: 1R01 DK095771
 Period: July 1, 2012 to May 31, 2014
 Total Cost: \$40,723
 Examine the effect of adding a social support component to a standard behavioral intervention aimed at minimizing weight regain among obese subjects enrolled in a weight loss program.
- [34] *Behavioral Weight Loss as a Treatment for Migraine in Obese Women*
 Role: Co-Investigator (subcontract PI)
 Principal Investigator: Dr. Dale Bond
 Agency: NINDS/The Miriam Hospital Subcontract
 Type: 1R01 NS077925
 Period: July 1, 2012 to June 30, 2016
 Total Cost: \$94,471
 Examine the effect of a behavioral weight loss intervention versus a migraine health-education control in reducing migraine frequency among obese women.
- [35] *LIVE SMART: Smartphone Intervention for Weight Control*
 Role: Co-Investigator (subcontract PI)
 Principal Investigator: Dr. J. Graham Thomas
 Agency: NIH/The Miriam Hospital Subcontract
 Type: 1R01 DK095779
 Period: July 1, 2012 to June 30, 2017
 Total Cost: \$157,803
 Examine whether smart-phone applications can produce improvements in weight-related outcomes comparable to those than can be achieved via standard behavioral treatment.
- [36] *Improving Adherence to Web-based Cessation Programs: a Social Network Approach*
 Role: Co-Investigator (subcontract Co-I)
 Principal Investigator: Dr. Amanda Graham
 Agency: NCI/Legacy Foundation Subcontract
 Type: 1R01 CA1555489
 Period: October 1, 2012 to April 30, 2017
 Total Cost: \$407,200
 Examine the extent to which online social support interacts with nicotine replacement therapy in improving smoking abstinence in a randomized clinical trial with a 2x2 factorial design.
- [37] *Perceptions and Use of Flavors in Pregnant Smokers and Non-Smokers*
 Role: Co-Investigator (subcontract PI)
 Principal Investigator: Dr. Laura Stroud
 Agency: NICHD/The Miriam Hospital Subcontract
 Type: 1R01 HD076223 (Administrative Supplement)
 Period: May 1, 2014 to April 30, 2017
 Total Cost: \$80,114
 Use ultrasound measures to characterize effects of maternal smoking on trajectories of fetal neurobehavior and stress response, and determine links between fetal and infant neurobehavioral outcomes.

- [38] *Social Dynamics of Substance Use in Online Networks for Smoking Cessation*
 Role: Co-Investigator (subcontract PI)
 Principal Investigator: Dr. Amanda Graham
 Agency: NCI/Legacy Foundation Subcontract
 Type: 1R01 CA192345
 Period: September 19, 2014 to August 31, 2017
 Total Cost: \$216,385
 Develop and evaluate prediction models for smoking abstinence using information from dynamic participant interactions in an online social network for smoking cessation.
- [39] *HPA & Neural Response to Peer Rejection: Biomarkers of Adolescent Depression Risk*
 Role: Co-Investigator (subcontract PI)
 Principal Investigator: Dr. Laura Stroud
 Agency: NIMH/The Miriam Hospital Subcontract
 Type: 1R01 MH092450
 Period: March 1, 2014 to February 28, 2018
 Total Cost: \$126,403
 Characterize associations between neuroendocrine and neural response to peer rejection, and determine whether they improve MDD prediction over standard covariates with known links to depression.
- [40] *Population Health Management for Smoking Cessation among Low-Income Smokers*
 Role: Co-Investigator (subcontract PI)
 Principal Investigator: Dr. Brian Hitsman
 Agency: NCI/Northwestern University Subcontract
 Type: 1U54 CA202995
 Period: September 1, 2015 to August 31, 2018
 Total Cost: \$70,269
 A randomized clinical trial to evaluate the effectiveness of a population health management intervention that aims to engage patients in smoking cessation treatment and improve abstinence outcomes.
- [41] *Endocrine-disrupting Chemicals, Thyroid Hormones, and Child Neurobehavior*
 Role: Co-Investigator
 Principal Investigator: Dr. Joseph Braun
 Agency: NIEHS/Brown University
 Type: 1R01 ES024381
 Period: April 1, 2015 to March 31, 2019
 Total Cost: \$132,585
 Determine whether maternal gestational and infant exposure to endocrine-disrupting chemicals have adverse effects on child neurobehavior via alterations in maternal thyroid-stimulating hormone levels.
- [42] *Maternal Smoking: HPA and Epigenetic Pathways to Infant Neurobehavioral Deficits*
 Role: Co-Investigator (subcontract PI)
 Principal Investigator: Dr. Laura Stroud
 Agency: NIDA/The Miriam Hospital Subcontract
 Type: 1R01 DA031188
 Period: May 1, 2014 to April 30, 2019
 Total Cost: \$123,796
 Characterize biological and epigenetic pathways linking maternal smoking with neurobehavioral deficits in offspring during their first year of life.

- [43] *Fetal Behavior, Brain and Stress Response: Ultrasound Markers of Maternal Smoking*
 Role: Co-Investigator (subcontract PI)
 Principal Investigator: Dr. Laura Stroud
 Agency: NICHD/The Miriam Hospital Subcontract
 Type: 1R01 HD076223
 Period: May 1, 2016 to April 30, 2019
 Total Cost: \$246,527
 Use ultrasound measures to characterize effects of maternal smoking on trajectories of fetal neurobehavior and stress response and determine links between fetal and infant neurobehavioral outcomes.
- [44] *Improving nutrition and physical activity environments in home-based child care*
 Role: Co-Investigator
 Principal Investigator: Drs. Patricia Risica & Kim Gans
 Agency: NHLBI/Brown University
 Type: R01 HL123016
 Period: August 1, 2014 to May 30, 2019
 Total Cost: \$39,500
 A test of the feasibility, acceptability and efficacy of a novel home-based intervention to improve the diet quality and family food environment of preschool age, low-income, ethnically diverse children.
- [45] *Predictors of De Novo Development of Obstructive Sleep Apnea in Pregnancy*
 Role: Co-Investigator
 Principal Investigator: Dr. Ghada Bourjeily
 Agency: NHLBI/Women & Infants Hospital
 Type: 1R01 HL130702
 Period: July 1, 2016 to June 30, 2020
 Total Cost: \$100,207
 Examine whether women with a specific phenotype are more likely to develop obstructive sleep apnea.
- [46] *Optimizing Text Messaging to Improve Adherence to Web-based Cessation Treatment*
 Role: Co-Investigator (subcontract Co-I)
 Principal Investigator: Dr. Amanda Graham
 Agency: NCI/Truth Initiative Subcontract
 Type: 1R01 DA038139
 Period: September 1, 2015 to July 31, 2020
 Total Cost: \$350,756
 Examine the extent to which text messaging adherence can be optimized via a fractional factorial design, and whether improved adherence leads to improved abstinence outcomes.
- [47] *Behavioral Activation and Varenicline for Smoking Cessation in Depressed Smokers*
 Role: Co-Investigator (subcontract PI)
 Principal Investigator: Dr. Brian Hitsman
 Agency: NCI/Northwestern University Subcontract
 Type: 1R01 CA184211
 Period: September 22, 2014 to August 31, 2020
 Total Cost: \$219,341
 A randomized clinical trial to evaluate the efficacy of behavioral activation plus varenicline for treating tobacco dependence in depressed smokers.

- [48] *Early Life Perfluoroalkyl Substance Exposure & Obesity: Mechanisms & Phenotyping*
 Role: Co-Investigator
 Principal Investigator: Dr. Joseph Braun
 Agency: NIEHS/Brown University
 Type: 1R01 ES025214
 Period: February 1, 2019 to January 31, 2021
 Total Cost: \$59,209
 Determine whether pre- or postnatal perfluoroalkyl substance exposures are associated with child obesity, adverse cardio-metabolic markers, and changes in gene regulation.
- [49] *A Home-based Video and Motivational Interviewing Intervention to Improve Preschoolers Diet Quality and Parental Food Parenting Practices*
 Role: Co-Investigator
 Principal Investigator: Dr. Alison Tovar
 Agency: NHLBI/Brown University
 Type: 1R34 HL140229
 Period: July 15, 2018 to June 30, 2021
 Total Cost: \$30,486
 A test of the feasibility, acceptability and efficacy of a novel home-based intervention to improve the diet quality and family food environment of preschool age, low-income, ethnically diverse children.
- [50] *A nested case-control study of exposure to toxic metals, essential metals and their interaction on the risk of type 2 diabetes*
 Role: Co-Investigator
 Principal Investigators: Dr. Tongzhang Zheng, Simin Liu, & Yana Bai
 Agency: NIEHS/Brown University
 Type: 1R01 ES029082
 Period: March 15, 2019 to February 28, 2023
 Total Cost: \$503,615
 A nested case-control study to determine whether exposure to specific toxic and essential metals is associated with T2D risk in Jinchang Metal Cohort Study.
- [51] *Electronic Cigarettes during Pregnancy: Impact on Fetal Development and Biomarkers*
 Role: Co-Investigator (subcontract PI)
 Principal Investigator: Dr. Laura Stroud
 Agency: NIDA/The Miriam Hospital Subcontract
 Type: 1R01 DA045492
 Period: August 15, 2018 to May 31, 2023
 Total Cost: \$260,575
 Examine whether maternal smoking of e-cigarettes during pregnancy affects fetal neurobehavior and stress response through specific harmful and potentially harmful constituents, as defined by the FDA.
- [52] *Prenatal Marijuana: Impact on Infant Neurobehavior, Stress, and Epigenetic Mechanisms*
 Role: Co-Investigator (subcontract PI)
 Principal Investigator: Dr. Laura Stroud
 Agency: NIDA/The Miriam Hospital Subcontract
 Type: 1R01 DA044504
 Period: September 1, 2017 to July 31, 2023
 Total Cost: \$207,396
 A longitudinal investigation of the biological and epigenetic pathways linking maternal marijuana smoking during pregnancy with offspring neurobehavioral deficits during the first year of life.

- [53] *Environmental heavy metals and risk of ischemic heart disease and stroke in the Brazilian Longitudinal Study of Adult Health (ELSA-Brasil)*
 Role: Co-Investigator
 Principal Investigators: Drs. Simin Liu & Paulo Andrade Lotufo
 Agency: NIEHS/Brown University
 Type: 1R01 ES031391
 Period: May 21, 2020 to December 31, 2023
 Total Cost: \$165,414
 A nested case-control study to determine whether toxic and essential metal exposures affect CVD risk in a population-based cohort of 15,105 Brazilian participants.
- [54] *A Residential Dust Control Intervention to Reduce Early Childhood Exposure to Chemical Mixtures*
 Role: Co-Investigator
 Principal Investigator: Dr. Joseph Braun
 Agency: NIEHS/Brown University
 Type: 1R21 ES034187-01
 Period: July 1, 2022 to June 30, 2025
 Total Cost: \$84,664
 Determine if household dust is a major pathway of exposure to mixtures of endocrine-disrupting chemicals and if dust control can reduce exposure to EDCs.
- [55] *Gestational PFAS exposure, longitudinal metabolomic profiles, and adolescent cardiometabolic health*
 Role: Co-Investigator
 Principal Investigator: Dr. Joseph Braun
 Agency: NIEHS/Brown University
 Type: 1R01 ES032836-01
 Period: September 25, 2021 to July 31, 2025
 Total Cost: \$345,669
 Identify metabolic alterations and biological pathways that mediate the associations between prenatal exposure to PFAS mixtures and cardiometabolic sequelae in early adolescence.
- [56] *Mechanisms of Risk and Resilience to Age-Related Cognitive Decline: A 60-Year Prospective Study*
 Role: Co-Investigator
 Principal Investigators: Drs. William Heindel & Stephen Buka
 Agency: NIA/Brown University
 Type: 1R01 AG063334
 Period: September 15, 2020 to April 30, 2026
 Total Cost: \$524,529
 A longitudinal cohort study of the joint effects of genetic risk and early developmental challenges on neurocognitive mechanisms that may delay the onset of AD pathology and moderate the impact of AD pathology on cognitive performance in older adults.

Current Research Grants (Center of Statistical Sciences Portion of the Total Cost: \$3,158,455)

- [1] *Perfluoroalkyl substances and risk of kidney cancer in US men and women*
 Role: Co-Investigator
 Principal Investigators: Drs. Tongzhang Zheng & Loren Lipworth
 Agency: NIEHS/Brown University
 Type: 1R01 ES034014-A1
 Period: June 20, 2023 to May 31, 2027
 Total Cost: \$243,417
 A nested case-control study to determine whether risk of kidney cancer is associated with exposure to mixtures of perfluoroalkyl substances and is moderated by established baseline risk factors.

- [2] *Exposure to endocrine disrupting chemicals via consumption of ultra-processed foods: implications for maternal metabolic health in pregnancy*
 Role: Co-Investigator
 Principal Investigators: Drs. Rita Strakovsky & Joseph Braun
 Agency: NIEHS/Michigan State University
 Type: 1R21 ES036628-01A1
 Period: July 15, 2025 to June 30, 2027
 Total Cost: \$70,214
 A study to quantify associations of ultra-processed foods with markers of maternal metabolic health.
- [3] *Early life organophosphate ester exposures and adiposity and cardiometabolic health during adolescence*
 Role: Co-Investigator
 Principal Investigator: Dr. Ann M. Vuong
 Agency: NIEHS/University of Nevada (Las Vegas)
 Type: 1R01 ES033200-A1
 Period: September 21, 2022 to July 31, 2027
 Total Cost: \$105,676
 Quantify the impact of POE exposure on adiposity and cardiometabolic risk in the first 12 years of life.
- [4] *Associations of Prenatal PFAS Mixtures with Adult Metabolic, Vascular and Bone Health*
 Role: Co-Investigator
 Principal Investigators: Drs. Joseph Braun & Jessie Buckley
 Agency: NIEHS/Brown University
 Type: 1R21 ES039946-01
 Period: September 10, 2025 to September 9, 2027
 Total Cost: \$44,976
 Estimate the effect of gestational exposure to PFAS mixtures on metabolic, vascular, and bone health in mid-adulthood and determine whether diet quality and physical activity mitigate such adverse effects.
- [5] *Early developmental risk for cardiovascular disease: High-risk subgroups, biomarkers & mechanisms*
 Role: Co-Investigator
 Principal Investigators: Drs. Stephen Buka & Charles Eaton
 Agency: NHLBI/Brown University
 Type: 1R01 HL174917-01
 Period: August 1 2024 to May 31, 2028
 Total Cost: \$422,560
 Evaluate the association of select biomarkers reflective of placental dysfunction, chronic fetal hypoxia, and cardiac programming with adult CHD risk and cardiometabolic outcomes.
- [6] *Mechanisms of mindfulness training to reduce maternal and infant cardiovascular disease risk*
 Role: Co-Investigator (subcontract PI)
 Principal Investigator: Dr. Margaret Bublitz
 Agency: NHLBI/Rhode Island Hospital Subcontract
 Type: 1R01 HL172869-01
 Period: May 15, 2024 to March 31, 2029
 Total Cost: \$1,037,340
 Test the enduring effects of prenatal MT on postpartum psychological, physiological, and interpersonal processes that may confer risk for maternal and infant cardiovascular disease.

- [7] *Prenatal PFAS Exposure and Adult Cardiometabolic Disease*
 Role: Co-Investigator
 Principal Investigator: Dr. Joseph Braun
 Agency: NIEHS/Brown University
 Type: 1R01 ES037335-01
 Period: August 6, 2025 to May 31, 2029
 Total Cost: \$388,084
 Determine the impact of gestational and concurrent exposure to PFAS mixtures and serum EOF on the risk of Metabolic Syndrome in mid-adulthood using a prospective cohort of 751 NEFS participants.
- [8] *Effects of endogenous and exogenous ovarian hormones on Electronic Nicotine Delivery Systems Use*
 Role: Co-Investigator (subcontract PI)
 Principal Investigator: Dr. Chrystal Vergara-Lopez
 Agency: NIDA/The Miriam Hospital Subcontract
 Type: 1R01 DA061808-01A1
 Period: August 1, 2025 to April 30, 2030
 Total Cost: \$397,927
 Examine reinforcement & nicotine metabolism pathways linking ovarian hormones to ENDS use.
- [9] *Testing the Efficacy of a Personalized Multi-Domain Behavioral Intervention for Alzheimer's Disease and Related Dementias Risk Reduction in Midlife*
 Role: Co-Investigator (subcontract PI)
 Principal Investigators: Drs. Laura Korthauer and Jennifer Davies
 Agency: NIA/Brown University
 Type: 1R01AG093970-A1
 Period: September 17, 2026 to August 31, 2031
 Total Cost: \$308,741
 Establish the efficacy of a personalized multi-domain behavioral intervention in reducing Alzheimer's Disease risk and increasing engagement in target health behaviors in middle-aged adults at risk for AD.

Research Grants under Review (Center of Statistical Sciences Portion of Total Cost: \$1,393,660)

- [1] *Mechanisms of prenatal mindfulness training to prevent cardiometabolic conditions among poor sleepers*
 Role: Co-Investigator (subcontract PI)
 Principal Investigators: Drs. Ghada Bourjeily & Margaret Bubltz
 Agency: NHLBI/Rhode Island Subcontract
 Type: 1R01
 Period: April 30, 2027 to March 31, 2032
 Total Cost: \$425,212
 Submission Date: June 5, 2026
 Test sleep health and stress as parallel mediators of the association between prenatal mindfulness training and markers of autonomic dysregulation and cardiometabolic risk.
- [2] *Impact of endogenous and exogenous ovarian hormones on alcohol use: Digital phenotyping of sleep, cognition, and autonomic function*
 Role: Co-Investigator (subcontract PI)
 Principal Investigator: Dr. Chrystal Vergara-Lopez
 Agency: NIDA/The Miriam Hospital Subcontract
 Type: 1R01
 Period: April 1, 2027 to March 31, 2032
 Total Cost: \$433,335
 Submission Date: June 5, 2026
 Examine sleep, cognition and autonomic function as pathways linking ovarian hormones with alcohol use.

- [3] *Investigating polycyclic aromatic hydrocarbons as reproductive toxicants and exposure via consumption of ultra-processed foods*
 Role: Co-Investigator
 Principal Investigators: Drs. Rita Strakovsky & Joseph Braun
 Agency: NIEHS/Michigan State University
 Type: 1R01
 Period: April 1, 2027 to March 31, 2032
 Total Cost: \$121,740
 Submission Date: July 5, 2026
 Examine whether in utero exposure to mixtures of polycyclic aromatic hydrocarbons (PAHs) is associated with altered concentrations of cord blood hormones and anogenital distance (AGD) at birth, and with AGD change between birth and five months.
- [4] *Firearms, Lead, and Mental Health*
 Role: Co-Investigator
 Principal Investigator: Dr. Joseph Braun
 Agency: NIEHS/Brown University
 Type: R01
 Period: July 1, 2027 to June 30, 2032
 Total Cost: \$239,106
 Submission Date: October 5, 2024
 Examine the effects of lead exposure from firearm use on mental health outcomes among veterans.
- [5] *URI Superfund – Sources, Transport, Exposure & Effects of PFAS (STEEP) Center Renewal*
 Role: Co-Investigator
 Principal Investigator: Dr. Joseph Braun
 Agency: NIEHS/Brown University
 Type: P42
 Period: May 1, 2027 to April 30, 2033
 Total Cost: \$119,553
 Submission Date: November 5, 2024
 Examine novel multimodal interventions to reduce the risk of chemical exposures.
- [6] *Acute effects of a flavored pressurized air inhaler and nicotine lozenge on e-cigarette craving, withdrawal, and lapse behavior*
 Role: Co-Investigator (subcontract PI)
 Principal Investigator: Dr. Brian Hitsman
 Agency: NIDA/Northwestern University Subcontract
 Type: 1R21 DA063989–A1
 Period: April 1, 2027 to March 31, 2028
 Total Cost: \$54,714
 Submission Date: November 5th, 2026
 Evaluate the effects of an inhaler and lozenge on craving, withdrawal, and lapse behavior among vapers.

K–Award Research Mentor/Consulting Biostatistician

- [1] *The Long-term Benefits of Cardiac Rehabilitation in Men and Women*
Principal Investigator: Dr. John Todaro
Agency: NHLBI/The Miriam Hospital
Type: K23 HL004473
Period: March 1, 2001 to February 28, 2006
A comparison of the long-term psychological and quality-of-life benefits of cardiac rehabilitation.

- [2] *Computer-Assisted Cancer Risk Behavior Counseling*
Principal Investigator: Dr. Christopher Sciamanna
Agency: NCI/The Miriam Hospital
Type: K07 CA091976
Period: September 1, 2001 to August 31, 2006
A randomized controlled trial evaluating the impact of providing computer-tailored, patient-specific reports to physicians on their counseling regarding smoking, diet and physical activity.

- [3] *Puberty, HPA Reactivity and Sex Differences in Depression*
Principal Investigator: Dr. Laura Stroud
Agency: NIMH/The Miriam Hospital
Type: K23 MH65443
Period: June 1, 2002 to March 31, 2007
An examination of sex differences in adrenocortical stress responses and depression over puberty.

- [4] *Efficiency of Tailoring Treatment to Smoker Subgroup*
Principal Investigator: Dr. Charles J. Neighbors
Agency: NCI/The Miriam Hospital
Type: K07 CA90961
Period: July 1, 2002 to June 30, 2007
A cost-effectiveness study to compare tailored-step care to standard treatment in smokers.

- [5] *Psychobiological and Genetic Determinants of Smoking Cessation*
Principal Investigator: Dr. Sean David
Agency: NIDA/The Miriam Hospital
Type: K08 DA14276
Period: September 27, 2002 to August 31, 2007
A study to test whether bupropion interacts with genotype to influence behavioral mediating variables that place smokers at increased risk of relapse.

- [6] *Peer Group Networks and Adolescent Smoking*
Principal Investigator: Dr. Cassandra Stanton
Agency: NCI/The Miriam Hospital
Type: K07 CA95623
Period: May 1, 2004 to April 30, 2010
An application of social network analysis to the critical examination of the role membership of smoking peer groups plays in the initiation and progression of adolescent smoking.

- [7] *A Prospective Study of Weight Change in College Freshmen*
Principal Investigator: Dr. Elizabeth Lloyd
Agency: NHLBI/The Miriam Hospital
Type: K23 HL69987
Period: July 1, 2004 to June 30, 2010
A longitudinal naturalistic study of weight change among college freshmen, followed by an junior year intervention to reduce weight gain among subjects identified as high risk.

- [8] *Neurobehavioral Regulation of Cigarette Cravings*
Principal Investigator: Dr. Brian Hitsman
Agency: NIDA/The Miriam Hospital
Type: K08 DA017145
Period: September 30, 2004 to June 30, 2010
Study the effects of depression on smoking urges and pathophysiological responses to smoking cues.
- [9] *Impact of Gestational & Postnatal Triclosan Exposure on Eczema, Wheeze and Asthma Risk in Children*
Principal Investigator: Dr. Medina S. Jackson-Browne
Agency: NIEHS/Brown University
Type: F32 ES029812
Period: May 1, 2019 to June 30, 2019
Characterize eczema and wheeze phenotypes from gestation through age eight years using latent class trajectory modeling and identify periods of heightened susceptibility to triclosan exposure.

Ph.D. Dissertation Committees

- [1] Member: Pankaj Kumar, Ph.D. in Marketing, SUNY at Buffalo (1997)
“Dynamic Bayesian Hierarchical Models of Consideration and Choice: Issues and Estimation”
- [2] Member: Joo Yeon Lee, Ph.D. in Biostatistics, Brown University (2006)
“Sensitivity Analysis and Informative Priors for Longitudinal Binary Data with Dropout”
- [3] Chair: Bahar Erar, Ph.D. in Biostatistics, Brown University (2016)
“Whole Genome Regression for Gene by Environment Interactions in Structured Populations”
- [4] Member: Jessica Shoaff, Ph.D. in Epidemiology, Brown University (2016)
“Early-Life Exposure to Endocrine-Disrupting Chemicals: Implications for Child Birthweight, Growth and Adiposity”
- [5] Member: Anthony Scottina, Ph.D. in Biostatistics, Brown University (2018)
“Estimation of Causal Effects of Multiple Treatments”
- [6] Member: Heather Lee, Ph.D. in Epidemiology, Brown University (2019)
“Prenatal and Immunological Origins of Neurodevelopmental Disorders”
- [7] Member: Xiaotian Wu, Ph.D. in Biostatistics, Brown University (2019)
“Using Latent Dirichlet Allocation Models in Genetics”
- [8] Member: Ruoshui Zhai, Ph.D. in Biostatistics, Brown University (2020)
“Topics in Multiple Imputation and Computational Methods for Design and Analysis of Cluster Randomized Trials”
- [9] Member: Marisa Patti, Ph.D. in Epidemiology, Brown University (2022)
“Impact of Gestational Arsenic Exposure & Maternal Folate Status on Child Health: A Phenome Approach”
- [10] Member: Yi Cao, Ph.D. in Biostatistics, Brown University (2022)
“Missing data imputation and causal inference for longitudinal data”

M.S. Dissertations Supervised

- [1] Brenda Barth, M.S. in Statistics, SUNY at Buffalo (1996)
“*Comparative Evaluation of Methods of Analyzing Routine Pharmacokinetic Data*”
- [2] John Wikander, M.S. in Statistics, SUNY at Buffalo (1996)
“*Certain Statistical Issues Arising from the Use of Stepwise Regression*”
- [3] Chi Fang-I, M.S. in Statistics, SUNY at Buffalo (1996)
“*Inverse Covariance Matrix Factorizations with Applications to Multivariate Quality Control*”.
- [4] Ching-Chia Yeh, M.S. in Statistics, SUNY at Buffalo (1997)
“*Sample Size Calculations for Failure-Time Data*”
- [5] Marlo Brown, M.S. in Statistics, SUNY at Buffalo (1998)
“*Power and Sample Size Calculations for 2 x 2 Comparative Clinical Trials*”
- [6] Sanjog Misra, M.S. in Statistics, SUNY at Buffalo (1998)
“*Modeling Heterogeneity in Household Interpurchase Times*”
- [7] Yu Zhe, Sc.M. in Biostatistics, Brown University (2011)
“*Separating Selection and Influence Processes: Friendship Network and Delinquency in a Dutch Secondary School Class*”
- [8] Xuan Deng, Sc.M. in Biostatistics, Brown University (2013)
“*Mediation Effects of Behavioral and Psychological Factors in Maintaining Weight Loss*”
- [9] Fangyu Wang, Sc.M. in Biostatistics, Brown University (2017)
“*Maternal Prenatal Depression and Maternal Smoking during Pregnancy as Predictors of Infant Neurobehavioral Profiles*”
- [10] Xiaofei Yang, Sc.M. in Biostatistics, Brown University (2019)
“*Secondary Data Analysis of Pecarn Traumatic Brain Injury in Children*”
- [11] Zachary Kunicki, M.P.H. in Biostatistics, Brown University (2019)
“*Exploring Relationships between Affect and Exercise in Predicting Tobacco Cravings and Odds of Smoking Abstinence*”
- [12] Anqi Zheng, Sc.M. in Biostatistics, Brown University (2024)
“*Examining Race and Sex Disparities in the Wechsler Intelligence Scale for Children (WISC): A Differential Item Functioning Analysis with Item Response Theory*”
- [13] Guo Chang, Sc.M. in Biostatistics, Brown University (2026)
“*Predicting Childhood Obesity at Age 7 Using Birth Characteristics and Early Growth Trajectories*”

Courses Taught (SUNY at Buffalo)

Graduate:

STA517 Categorical Data Analysis (Fall 1997)
STA575 Survival Analysis (Fall 1996)
STA581 Multivariate Analysis (Spring 1998)

Dual Designation (Undergraduate/Graduate):

STA401/501 Introduction to Probability & Statistics I (Fall 1994, Spring 1996)
STA402/502 Introduction to Probability & Statistics II (Spring 1995)
STA405/505 Computational Methods in Statistics (Fall 1997)
STA409/509 Introduction to Statistical Quality Control (Fall 1995)
STA433/503 Regression & Design of Experiments I (Fall 1994, Fall 1995, Fall 1996)
STA435/504 Regression & Design of Experiments II (Spring 1995, Spring 1996, Spring 1997)
STA436/506 Introduction to Biostatistics (Spring 1997, Spring 1998)

Courses Taught (Brown University)

Graduate:

BC213 Principles of Biostatistics & Data Analysis (Fall 1998)

BC250 Categorical Data Analysis (Spring 1999)

BC251 Linear and Generalized Linear Models (Spring 2001)

BC253 Analysis of Longitudinal Data (Fall 1999)

PHP2950 Doctoral Seminar in Public Health (Fall 2016)