

BIOGRAPHICAL SKETCH

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NAME: Brent J. Small, PhD

eRA COMMONS USER NAME (credential, e.g., agency login): bsmall

POSITION TITLE: Professor

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.*)

INSTITUTION AND LOCATION	DEGREE (if applicable)	Start Date MM/YYYY	Completion Date MM/YYYY	FIELD OF STUDY
University of Toronto, Toronto, Canada	BSc	09/1984	05/1988	Biology/Psychology
University of Victoria, Victoria, Canada	MA	09/1988	05/1992	Life-Span Psychology
University of Victoria, Victoria, Canada	PhD	05/1992	05/1995	Life-Span Psychology
Karolinska Institute, Stockholm, Sweden	Post-doc	08/1995	07/1997	Psychology

A. Personal Statement

I am a Professor in the School of Aging Studies at the University of South Florida, a Senior Member in the Health Behaviors and Outcomes program, and the Biostatistics Resource Core at the H. Lee Moffitt Cancer Center and Research Institute. I have extensive expertise in psychometric studies and in the use of advanced statistical analytic techniques, especially the application of advanced multivariate and multivariable statistical techniques to longitudinal data. My empirical research has focused broadly on changes in cognitive performance, but specifically among persons undergoing treatment for cancer, cancer survivors, as well as older adults and those at risk of late-life dementing disorders. My research has also focused on the application and analysis of data from intensive longitudinal studies, including information derived from Ecological Momentary Assessment (EMA). I have a long track record of NIH funding as a statistician which includes my role as the study statistician on over 30 NIH grants, director of the statistical core for a completed P01 grant, a member of the statistical core for the Florida Alzheimer's Disease Research Center, and finally as the statistician member of Data Safety and Monitoring Boards on other trials.

Ongoing and recently completed projects that I would like to highlight include:

DOD/W81XWH2010126

Gonzalez (PI), Role: Co-Investigator

04/01/2020 – 03/31/2023

Identifying Disparities in Symptom Burden and Their Risk Factors in African American Prostate Cancer Survivors

NCI/R01 CA242742

Gonzalez (PI), Role: Co-Investigator

04/01/2020 - 03/31/2025

Identifying and Reducing Disparities in Patient-Reported Outcomes Among Diverse Prostate Cancer Survivors

NCI/R01NR018762

Figueiredo/Jim (MPIs), Role: Co-
Investigator 05/28/2020-03/31/2025

Novel biomarkers for cancer-related fatigue: Integrating metabolomics, genomics and behaviors

PCORI

Martinez-Tyson (PI), Role: Co-
investigator 02/01/2022-01/31/2025

Culturally adapted online couples communication program for Latina breast cancer patients

NIA/R01AG068193

Mandelblatt (PI), Role: Co-
Investigator 08/01/2020-04/30/2024

Cognitive aging, Alzheimer's disease, and cancer-related cognitive decline

NCI/R01 CA129769

Mandelblatt (PI), Role: Co-Investigator (subcontract)
03/01/2016 - 02/28/2021 (NCE)

Older Breast Cancer Patients: Risk for Cognitive Decline

NCI/R01CA244328

Jim/Locke/Small (MPI), Role: MPI
07/01/2022 – 06/30/2027

Neurocognitive and Patient-Reported Outcomes after Chimeric Antigen Receptor T-Cell Therapy: A
Controlled Comparison.

Citations:

- a. Carroll JE, **Small BJ**, Tometich DB, Zhai W, Zhou X, Luta G, Ahles TA, Saykin AJ, Nudelman KNH, Clapp JD, Jim HS, Jacobsen PB, Hurria A, Graham D, McDonald BC, Denduluri N, Extermann M, Isaacs C, Dilawari AA, Root J, Stern RA, Mandelblatt JS, Thinking, Living With Cancer S. Sleep disturbance and neurocognitive outcomes in older patients with breast cancer: Interaction with genotype. *Cancer*. 2019;125(24):4516-24. PMID: 31511255; PMCID: PMC6891125.
- b. Gonzalez BD, Eisel SL, Bowles KE, Hoogland AI, James BW, **Small BJ**, Sharpe S, Hyland KA, Bulls HW, Christy SM, Mansfield J, Nelson AM, Alla R, Maharaj K, Kennedy B, Lafranchise E, Williams NL, Jennewein S, Oswald LB, Postow MA, Dicker AP, Jim HSL. Meta-Analysis of Quality of Life in Cancer Patients Treated With Immune Checkpoint Inhibitors. *J Natl Cancer Inst*. 2022 Jun 13;114(6):808-818. doi: 10.1093/jnci/djab171. PMID: 34508604; PMCID: PMC9194633.
- c. Gonzalez BD, **Small BJ**, Cases MG, Williams NL, Fishman MN, Jacobsen PB, Jim HSL. Sleep disturbance in men receiving androgen deprivation therapy for prostate cancer: The role of hot flashes and nocturia. *Cancer*. 2018 Feb 1;124(3):499-506. doi: 10.1002/cncr.31024. Epub 2017 Oct 26. PMID: 29072790; PMCID: PMC5780192.
- d. Reblin M, **Small BJ**, Jim H, Weimer J, Sherwood P. Mediating burden and stress over time: Caregivers of patients with primary brain tumor. *Psychooncology*. 2018 Feb;27(2):607-612. doi: 10.1002/pon.4527. Epub 2017 Aug 31. PMID: 28801927.

B. Positions, Scientific Appointments and Honors

2008-present	<i>Professor</i> , School of Aging Studies, University of South Florida, Tampa, Florida
2008-present	<i>Professor</i> , Biostatistics Core and Health Outcomes and Behavior Program, H. Lee Moffitt Cancer Center & Research Institute, University of South Florida, Tampa, Florida
2008-present	<i>Courtesy Joint Professor</i> , Department of Psychology & College of Nursing, University of South Florida, Tampa, Florida
2015-2018	Director, School of Aging Studies, University of South Florida, Tampa, Florida
2004-2008	<i>Associate Professor</i> , Biostatistics Core, H. Lee Moffitt Cancer Center & Research Institute, University of South Florida, Tampa, Florida
2002-2008	<i>Courtesy Joint Associate Professor</i> , Department of Psychology & College of Nursing, University of South Florida, Tampa, Florida

- 2002-2008 Associate Professor, School of Aging Studies, University of South Florida, Tampa, Florida
- 1997-2002 Assistant Professor, School of Aging Studies, University of South Florida, Tampa, Florida
- 1995-1997 Research Scientist, Division of Geriatric Epidemiology, Karolinska Institute, Stockholm, Sweden

Scientific Appointments

- 2020-present Editorial Board Member, *Journal of the National Cancer Institute*
- 2018-present Editorial Board Member, *Bulletin of the Menninger Clinic*
- 2017-present Editorial Board Member, *Journal of Experimental Psychology: General*
- 2014-present Editorial Board Member, *Neuro-Oncology Practice*
- 2014-present Editorial Board Member, *Gerontology*
- 2006-present Editorial Board Member, *Journal of Gerontology: Psychological Sciences*
- 2003-present Editorial Board Member, *Psychology and Aging*

Honors

- 2012 Outstanding Faculty Research Achievement Award, University of South Florida, Tampa, Florida.
- 2011 Fellow, Association for Psychological Science
- 2005 Outstanding Faculty Research Achievement Award, University of South Florida, Tampa, Florida. 2004 The Margret M. Baltes Early Investigator Award in Behavioral and Social Gerontology, Gerontological Society of America.
- 2004 Fellow, Division 20 (Adult Development and Aging), American Psychological Association 2003 Fellow, Behavioral and Social Sciences Section, Gerontological Society of America 2002 President's Award for Faculty Excellence, University of South Florida, Tampa, FL
- 2001 Outstanding Undergraduate Teaching Award, University of South Florida, Tampa, Florida

C. Contributions to Science

1. *Multivariate and Multivariable Methods Applied to Longitudinal Data*. My research has necessitated the application of sophisticated multivariate and multivariable methods to longitudinal data. This has included multilevel modeling approaches to clinical trial data (Storch et al., 2016), as well as growth mixture modeling (Donovan et al., 2014) and Latent Class Analysis (Tometch et al., 2019) to identify vulnerable subgroups from patient-reported data and latent different score approach (e.g., Snitz et al., 2015).
 - a. Donovan KA, Gonzalez BD, **Small BJ**, Andrykowski MA, Jacobsen PB. Depressive symptom trajectories during and after adjuvant treatment for breast cancer. *Annals of behavioral medicine: a publication of the Society of Behavioral Medicine*. 2014;47(3):292-302. PMID: 4313122.
 - b. Storch EA, Wilhelm S, Sprich S, Henin A, Micco J, **Small BJ**, McGuire J, Mutch PJ, Lewin AB, Murphy TK, Geller DA. Efficacy of Augmentation of Cognitive Behavior Therapy With Weight-Adjusted d-Cycloserine vs Placebo in Pediatric Obsessive-Compulsive Disorder: A Randomized Clinical Trial. *JAMA psychiatry*. 2016;73(8):779-88. PMID: PMC5734635.
 - c. Snitz BE, **Small BJ**, Wang T, Chang CC, Hughes TF, Ganguli M. Do Subjective Memory Complaints Lead or Follow Objective Cognitive Change? A Five-Year Population Study of Temporal Influence. *J Int Neuropsychol Soc*. 2015;21(9):732-42. PMID: PMC4615611.
 - d. Tometch DB, **Small BJ**, Carroll JE, Zhai W, Luta G, Zhou X, Kobayashi LC, Ahles T, Saykin AJ, Clapp JD, Jim HSL, Jacobsen PB, Hurria A, Graham D, McDonald BC, Denduluri N, Extermann M, Isaacs C, Dilawari A, Root J, Rini C, Mandelblatt JS, Thinking, Living with Cancer S. Pretreatment Psychoneurological Symptoms and Their Association With Longitudinal Cognitive Function and Quality of Life in Older Breast Cancer Survivors. *J Pain Symptom Manage*. 2019;57(3):596-606. PMID: PMC6382533.
2. *Cognitive Outcomes Following Treatment for Cancer*. My work has focused on the negative cognitive outcomes of cancer survivors and includes empirical work and meta-analytic summaries. This has included time intensive Ecological Momentary Assessment research, using the same approach as the

current study on daily objective cognitive performance (Small et al., 2019) and daily subjective reports of memory lapses (Scott et al., 2020). I have also collaborated on meta-analyses on cognitive deficits among breast cancer survivors (Jim et al., 2012) and prostate cancer survivors (McGinty et al., 2014).

- a. Jim HS, Phillips KM, Chait S, Faul LA, Popa MA, Lee YH, Hussin MG, Jacobsen PB, **Small BJ**. Meta-analysis of cognitive functioning in breast cancer survivors previously treated with standard-dose chemotherapy. *J Clin Oncol*. 2012;30(29):3578-87. PMID: 3462044.
 - b. McGinty HL, Phillips KM, Jim HS, Cessna JM, Asvat Y, Cases MG, **Small BJ**, Jacobsen PB. Cognitive functioning in men receiving androgen deprivation therapy for prostate cancer: a systematic review and meta-analysis. *Support Care Cancer*. 2014;22(8):2271-80. PMID: PMC4090762.
 - c. Scott SB, Mogle JA, Sliwinski MJ, Jim HSL, **Small BJ**. Memory lapses in daily life among breast cancer survivors and women without cancer history. *Psychooncology*. 2020;n/a(n/a). Epub 2020/02/11. doi: 10.1002/pon.5357. PubMed PMID: 32040229.
 - d. **Small BJ**, Jim HSL, Eisel SL, Jacobsen PB, Scott SB. Cognitive performance of breast cancer survivors in daily life: Role of fatigue and depressed mood. *Psychooncology*. 2019;28(11):2174-80. PMID: PMC6858929.
3. *Cognitive Aging and Alzheimer's disease*. Much of my work on cognitive aging and Alzheimer's disease has been directed towards understanding changes in the cognitive performance of older adults, as well as persons who will go on to develop Alzheimer's disease (AD). This work has centered on describing longitudinal changes in performance, as well as identifying factors that may accelerate declines such as Mild Behavioral Impairment (Rouse et al., 2020, 2020), as well as those that attenuate age-related impairments (Runge et al., 2014; Small et al., 2012).
- a. Rouse HJ, **Small BJ**, Schinka JA, Hazlett AM, Loewenstein DA, Duara R, Potter H. Neuropsychiatric symptoms as a distinguishing factor between memory diagnoses. *Int J Geriatr Psychiatry*. 2020. Epub 2020/05/12. PubMed PMID: 32391573.
 - b. Rouse HJ, **Small BJ**, Schinka JA, Loewenstein DA, Duara R, Potter H. Mild behavioral impairment as a predictor of cognitive functioning in older adults. *Int Psychogeriatr*. 2020:1-9. Epub 2020/05/28. PubMed PMID: 32456733.
 - c. *Runge SK, **Small BJ**, McFall GP, Dixon RA. APOE moderates the association between lifestyle activities and cognitive performance: evidence of genetic plasticity in aging. *J Int Neuropsychol Soc*. 2014;20(5):478-86. PMID: 4096557.
 - d. **Small BJ**, Dixon RA, McArdle JJ, Grimm KJ. Do changes in lifestyle engagement moderate cognitive decline in normal aging? Evidence from the Victoria Longitudinal Study. *Neuropsychology*. 2012;26(2):144-55. PMID: PMC3761970.

Complete List of Published Work in MyBibliography:

<https://www.ncbi.nlm.nih.gov/myncbi/brent.small.1/bibliography/public/>