

# Brooks B. Gump, PhD, MPH

Department of Public Health, Food Studies, and Nutrition

Falk College of Sport and Human Dynamics, Syracuse University, Syracuse, New York,  
13244-3240, 315.443.2208, bbgump@syr.edu

## Education

July 1995 to June 1997, University of Pittsburgh, Pittsburgh, Pennsylvania, MPH in  
Epidemiology

September 1990 to June 1995, University of California, San Diego, La Jolla, California,  
PhD In Experimental Psychology (Health and Social Psychology emphasis)

September 1988 to May 1990, Radford University, Radford, Virginia, MA in General  
Psychology

September 1982 to June 1986, Swarthmore College, Swarthmore, Pennsylvania, BA in  
Philosophy

September 1984 to July 1985, St. Edmund Hall, Oxford University, Oxford, England,  
Visiting student in Philosophy

## Employment Background

October 2013 to present, Falk Family Endowed Professor of Public Health, Department  
of Public Health, Food Studies, and Nutrition, Falk College of Sport and Human  
Dynamics, Syracuse University

September 2012 to present, Graduate Program Director, Public Health, Department of  
Public Health, Food Studies, and Nutrition, Falk College of Sport and Human Dynamics,  
Syracuse University

September 2012 to September 2013, Professor, Department of Public Health, Food  
Studies, and Nutrition, Falk College of Sport and Human Dynamics, Syracuse University

September 2010 to May 2012, Associate Professor, Department of Public Health, Food  
Studies, and Nutrition, Falk College of Sport and Human Dynamics, Syracuse University

May 2003 to August 2010, Associate Professor, Department of Psychology, State  
University of New York at Oswego

August 1998 to April 2003, Assistant Professor, Department of Psychology, State  
University of New York at Oswego

January 1997 to July 1998, Investigator, University of Pittsburgh, Pittsburgh, Pennsylvania, Research on SES, race, and health (PI: Karen A. Matthews, Ph.D.)

July 1995 to July 1998, Postdoctoral Fellow, University of Pittsburgh, Pittsburgh, Pennsylvania, Fellowship in the Cardiovascular Behavioral Medicine Research, Training Program at the University of Pittsburgh

June 1991 to June 1995, Research Assistant, University of California, San Diego; La Jolla, California, Responsible for patient follow-up In a NIH funded study of "Psychological Preparation and Coronary Bypass Recovery" (PI: James A. Kulik, Ph.D.)

September 1987 to July 1988, Mental Health Worker, St. Mary's Hospital; Knoxville, Tennessee, Co-led therapeutic groups, provided 1:1 patient interaction and assessment, and interviewed In Emergency room crisis situations.

March 1987 to August 1987, Assistant Counselor, Oak Hill Center for Adolescents, St. Mary's Hospital; Knoxville, Tennessee, Co-led various therapeutic groups and implemented the program's philosophy In an out-patient treatment facility.

June 1986 to February 1987, Mental Health Worker, Payne-Whitney Clinic, New York Hospital/Cornell Medical Center; New York Involved In the daily care, assessment, and treatment of patients in a 24-bed acute care unit.

Summers, 1982-1984, Laboratory Technician, Infectious Disease Unit, Department of Medicine, University of Vermont; Burlington, Vermont, Antimicrobial chemotherapy research (see Jackson-York, Gump & Gump, 1983).

## Current Teaching Proficiencies

Introduction to Epidemiology

Introduction to Psychology

Health Psychology (class and online versions)

Research Methods/Experimental Psychology

Health Promotion

Introductory or Advanced Statistics

Behavioral Medicine

Psychophysiology

## Editorial Board Membership

**Journal:** *Psychosomatic Medicine, Health Psychology, Conference Papers in Medicine: Public Health section*

## NIH Committee Membership

**Committee:** Health, Behavior, and Context Subcommittee, NICHD, Initial 3-year term was extended to 5 years (9/2011-6/2016).

## Ad Hoc Reviewer

**Journals:** *American Journal of Epidemiology, Annals of Behavioral Medicine, Archives of General Psychiatry, Basic and Applied Psychology, Chest, Circulation, Health Psychology, International Journal of Psychophysiology, Journal of Applied Social Psychology, Journal of Health and Social Behavior, Journal of Personality and Social Psychology, Journal of Psychosomatic Research, Journal of Women ' s Health and Gender-Based Medicine, Personality and Individual Differences, Personality and Social Psychology Bulletin, Psychological Bulletin, Psychosomatic Medicine, Sex Roles, Social Science and Medicine, and Environmental Research.*

**Granting Agencies:** NIEHS Superfund Basic Research Program, National Institute of Child Health and Disease (NICHD), The Stroke Association, Israel Science Foundation, Canadian Northern Contaminants Program

## Publications (49)

Jackson-York, G., Gump, B., & Gump, D. W. (1983). Activity of trimethoprim (TMP), sulphamethoxazole (SMX), and the combination against *Bacteroides fragilis* group isolates. *Journal of Antimicrobial Chemotherapy*, *12*, 515-518.

Gump, B. B., & Kulik, J. A. (1995). The effect of a model's HIV status on self-perceptions: A self-protective similarity bias. *Personality and Social Psychology Bulletin*, *21*, 827-833.

Moore, P. J., & Gump, B. B. (1995). Information integration in juror decision-making. *Journal of Applied Social Psychology*, *25*, 2158-2179.

Kulik, J. A., & Gump, B. B. (1997). Affective reactions to social comparison: The effects of relative performance and related attributes information about another person. *Personality and Social Psychology Bulletin*, *23*, 452-468.

Gump, B. B., & Kulik, J. A. (1997). Stress, affiliation, and emotional contagion. *Journal of Personality and Social Psychology*, *72*, 305-319.

Matthews, K. A., Gump, B. B., Block, D., & Allen, M. T. (1997). Does background stress heighten or dampen children's cardiovascular responses to acute stress? *Psychosomatic Medicine*, *59*, 488-496.

Gump, B. B., & Matthews, K. A. (1998). Vigilance and cardiovascular reactivity to subsequent stressors in men. *Health Psychology*, *17*, 93-96.

Gump, B. B., Kulik, J. A., & Henderson, G. R. (1998). Blaming the same-sex victim in HIV-prevention messages: Further examination of the self-protective similarity bias. *Basic and Applied Social Psychology*, *20*, 123-132.

Gump, B. B., & Matthews, K. A. (1999) Do background stressors influence reactivity to and recovery from acute stressors? *Journal of Applied Social Psychology*, *29*, 469-494.

Gump, B. B., Matthews, K. A., & Räikkönen, K. (1999) Modeling Relationships Among Socioeconomic Status, Hostility, Cardiovascular Reactivity, and Left Ventricular Mass in African-American and White Children. *Health Psychology*, *18*, 140-150.

Räikkönen, K., Matthews, K. A., Flory, J. D., Owens, J. F., & Gump, B. B. (1999) Effects of optimism, pessimism, and trait anxiety on ambulatory blood pressure and mood during everyday life. *Journal of Personality and Social Psychology*, *76*, 104-113.

Gump, B. B., & Matthews, K. A. (2000). Are vacations good for your health?: The 9 year mortality experience after the Multiple Risk Factor Intervention Trial. *Psychosomatic Medicine*, *62*, 608-612.

Gump, B. B., Matthews, K. A., Scheier, M. F., Schulz, R., Bridges, M. W., & Magovern, Sr., G. J. (2001). Illness representations according to age and effects on health behaviors following Coronary Artery Bypass graft surgery. *Journal of the American Geriatrics Society*, *49* (3), 284-289.

Gump, B. B., Polk, D. E., Kamarck, T. W., & Shiffman, S. M. (2001). Partner interactions are associated with reduced blood pressure in the natural environment: Ambulatory monitoring evidence from a healthy, multiethnic adult sample. *Psychosomatic Medicine*, *63*, 423-433.

Matthews, K. A., Gump, B. B., & Owens, J. (2001). Chronic stress influences cardiovascular and neuroendocrine responses during acute stress and recovery responses. *Health Psychology*, *20*, 403-410.

Matthews, K. A., & Gump, B. B. (2002). Chronic work stress and marital dissolution increased risk of post-trial mortality in the Multiple Risk Factor Intervention Trial. *Archives of Internal Medicine*, *162*, 309-315.

Gump, B. B., & Matthews, K. A. (2003). Special intervention reduces CVD mortality for adherent participants in the Multiple Risk Factor Intervention Trial. *Annals of Behavioral Medicine*, *26*, 61-68.

Stewart PW, Fitzgerald S, Reihman J, Gump BB, Lonky E, Darvill T, Pagano J, Hauser P (2003). Prenatal PCB exposure, the corpus callosum, and response inhibition. *Environ Health Perspectives*, *111*(13), 1670-1670.

Matthews, K. A., Gump, B. B., Harris, K. F., Haney, T. L., & Barefoot, J. C. (2004). Hostile behaviors predict cardiovascular mortality among men enrolled in Multiple Risk Factor Intervention Trial. *Circulation, 109*, 66-70.

Gump, B. B., Matthews, K. A., Eberly, L. E., & Chang, Y. (2005). Depressive symptoms and mortality in men: Results from the Multiple Risk Factor Intervention Trial. *Stroke, 36* (1), 98-102.

Gump, B. B., Stewart, P., Reihman, J., Lonky, E., Darvill, T., Matthews, K. A., Parsons, P. J. (2005). Prenatal and early childhood blood lead levels and cardiovascular functioning in 9 ½ year old children. *Neurotoxicology and Teratology, 27* (4), 655-665.

Gump, B. B., Reihman J., Stewart P., Lonky E., & Darvill T. (2005). Terrorism and cardiovascular responses to acute stress in children. *Health Psychology, 24*, 594-600.

Stewart, P.W., Reihman, J., Gump, B., Lonky, E., Darvill, T., & Pagano, J. (2005). Response inhibition at 8 and 9 ½ years of age in children prenatally exposed to PCBs. *Neurotoxicology and Teratology, 27*, 771-780.

Stewart, P., Sargent, D. M., Reihman J., Gump, B., Lonky, E., Darvill, T., Hicks, H. & Pagano, J. (2006). Response inhibition during Differential Reinforcement of Low Rates (DRL) schedules may be sensitive to low-level PCB, MeHg and Pb exposure in children. *Environ Health Perspective, 114*, 1923-1929.

Gump B.B., Reihman J., Stewart P., Lonky E., Darvill T., & Matthews K.A.. (2007). Blood lead (Pb) levels: A potential environmental mechanism explaining the relation between socioeconomic status and cardiovascular reactivity in children. *Health Psychology, 26*, 296-304.

Gump, B. B., Stewart, P., Reihman, J., Lonky, E., Darvill, T., Parsons, P. J., Granger, D. A. (2008). Low-level prenatal and postnatal blood lead (Pb) exposure and adrenocortical responses to acute stress in children. *Environ Health Perspectives, 116*, 249-255.

Stewart, P. W., Lonky, E., Reihman J., Pagano, J, Gump, B., and Darvill, T. (2008). The relationship between prenatal PCB exposure and intelligence (IQ) in 9-year-old children. *Environ Health Perspectives (116)*, 1416-1422.

Gump, B. B., Reihman, J., Stewart, P., Lonky, E., Darvill, T., Granger, D. A. & Matthews, K. A. (2009). Trajectories of maternal depressive symptoms over their child's lifespan: Relation to adrenocortical, cardiovascular, and emotional functioning in children. *Development and Psychopathology, 21*, 207-225.

Gump, B. B., Reihman, J., Stewart, P., Lonky, E., Granger, D. A. & Matthews, K. A. (2009). Blood lead (Pb) levels: Further evidence for an environmental mechanism explaining the association between socioeconomic status and psychophysiological dysregulation in children. *Health Psychology, 28*, 614-620.

MacKenzie, J. A., Roosa, K. A., Gump, B. B., Dumas, A. K., & Bendinskas, K. G. (2010). Plasma prekallikrein levels are positively associated with circulating lipid levels

and the metabolic syndrome in children. *Applied Physiology, Nutrition, and Metabolism*, 35(4), 518-525.

Birdsall, R. E., Kiley, M. P., Segu, Z. M., Palmer, C. D., Madera, M., Gump, B. B., MacKenzie, J. A., Parsons, P. J., Mechref, Y., Novotny, V., & Bendinskas, K. G. (2010). Effects of lead and mercury on the blood proteome of children. *Journal of Proteome Research*, 9, 4443-4453.

Gump, B. B., MacKenzie, J. A., Bendinskas, K., Morgan, R., Dumas, A. K., Palmer, C. D., and Parsons, P. J. (2011). Low-level Pb and cardiovascular responses to acute stress in children: The role of cardiac autonomic regulation. *Neurotoxicology and Teratology*, 33, 212-219.

Gump, B. B., Qian, W., Dumas, A. K., & Kannan, K. (2011). Perfluorochemical (PFC) exposure in children: Associations with impaired response inhibition. *Environmental Science & Technology*, 45, 8151-8159.

Gump, B. B., MacKenzie, J. A., Dumas, A. K., Palmer, C. D., Parsons, P. J., Segu, Z. M., Mechref, Y. S., & Bendinskas, K. (2012). Fish consumption, low-level mercury, lipids, and inflammatory markers in children. *Environmental Research*, 112, 204-211.

Wang, F., Chmil, C., Pierce, F., Ganapathy, K., Gump, B., MacKenzie, J., Metchref, Y., and Bendinskas, K. (2013). Immobilized metal affinity chromatography and human serum proteomics. *Journal of Chromatography B*, 934, 26-33.

Spartano, N. L., Augustine, J. A., Lefferts, W. K., Hughes, W. E., Redmond, J. G., Martin, E. D., Kuvin, J. T., Gump, B. B., Heffernan, K. S. (2014) Arterial stiffness as a non-invasive tissue biomarker of cardiac target organ damage. *Current Biomarker Findings*, 4, 23-34.

Gump, B. B., Yun, S., Kannan, K. (2014). Polybrominated diphenyl ether (PBDE) exposure in children: Possible associations with cardiovascular and psychological functions. *Environmental Research*, 132, 244-250.

Gump, B. B., Gabrikova, E., Bendinskas, K., Dumas, A. K., Palmer, C. D., Parsons, P. J., and MacKenzie, J. A. (2014). Low-level mercury in children: Associations with sleep duration and cytokines TNF- $\alpha$  and IL-6. *Environmental Research*, 134, 228-232.

Spartano, N. L., Augustine, J. A., Lefferts, W. K., Gump, B. B., and Heffernan, K. A. (2014) The relationship between carotid intima-media thickness and carotid blood pressure reactivity to mental stress. *Atherosclerosis*, 236, 227-229.

Heffernan, K. S., Spartano, N. L., Augustine, J. A., Lefferts, W. K., Hughes, W. E., Mitchell, G. F., Jorgensen, R. S., & Gump, B. B. (2015). Carotid artery pressure and flow pulsatility during cognitive engagement in health adults: A pilot study. *American Journal of Hypertension*, 28(5): 615-622.

Spartano, N.L., Heffernan, K.S., Dumas, A.K., Gump, B.B. (2017). Accelerometer-determined physical activity and the cardiovascular response to mental stress in children. *Journal of Science and Medicine in Sport*, 20 (1), 60-65.

Lefferts, W.K., Augustine, J.A., Spartano, N.L., Atallah-Yunes, N.H., Heffernan, K.S., Gump, B.B. (2017). Racial differences in aortic stiffness in children. *Journal of Pediatrics*, 180 (1), 62-67.

Blodgett, J., Walter, D., MacKenzie, J. A., Gump, B. B., Bendinskas, K. (2017). Both hair cortisol and perceived stress during fall exams decrease after the winter break. *Austin Biochemistry*, 2 (1), 1-4. open access: <http://austinpublishinggroup.com/biochemistry/download.php?file=fulltext/biochemistry-v2-id1007.pdf>

Gump, B. B., Dykas, M. J., MacKenzie, J. A., Dumas, A. K., Hruska, B., Ewart, C. K., Parsons, P. J., Palmer, C. D., Bendinskas, K. (2017). Background lead and mercury exposures: Psychological and behavioral problems in children. *Environ Res*, 158, 576-582. doi:10.1016/j.envres.2017.06.033

LaFont, S. R., Brondolo, E., Dumas, A. K., Lynk, N. C., & Gump, B. B. (2017). The development and initial validation of the Child Perceived Discrimination Questionnaire. *Journal of Health and Social Behavior*, 1-11.

Heffernan, K. S., Augustine, J. A., Lefferts, W. K., Spartano, N. L., Hughes, W. E., Jorgensen, R. S., and Gump, B. B. (2018). Arterial stiffness and cerebral hemodynamic pulsatility during cognitive engagement in younger and older adults. *Experimental Gerontology*, 101, 54-62.

Lefferts, W. K., Deblois, J. P., Gump, B. B., Heffernan, K. S. (2018). Carotid artery stiffness and cerebral pulsatility in children. *Artery Research*, 22, 64-67.

Bergen-Cico, D., Smith, Y., Wolford, K., Gooley, C., Hannon, K., Woodruff, R., Spicer, M., and Gump, B. B. (2018). Dog ownership and training reduces post-traumatic stress symptoms and increases self-compassion among veterans: Results of a longitudinal control study. *The Journal of Alternative and Complementary Medicine*, 00, 1-10.

Castro, I., Larsen, D. A., Hruska, B., Parsons, P. J., Palmer, C. D., and Gump, B. B. (in press). Variability in the spatial density of vacant properties contributes to background lead (Pb) exposure in children. *Environmental Research*.

## Book Chapter and Invited Commentaries (5)

Gump, B. B. (2004). Multiple Risk Factor Intervention Trial. In N. B. Anderson (Ed), *Encyclopedia of Health and Behavior* (1st Edition, pp. 609-611). Thousand Oaks: Sage Publications.

Gump, B. B. (2008). Commentary on “ More severe symptoms of depression increase coronary heart disease mortality. ” *Evidence-Based Mental Health*, 11, 56.

Gump, B. B. (2011). Commentary on “ Effects of depressive symptoms and coronary heart disease and their interactive associations on mortality in middle-aged adults: the Whitehall II cohort study. ” Evidence-Based Mental Health.

Gump, B. B., & Hruska, B. (in press). Stress and the development of atherosclerotic cardiovascular disease. In S. Waldstein, W. Kop, & L. Katzel (Eds.), *Cardiovascular Behavioral Medicine*. New York: Springer.

Gump, B. B. (in press). Toxicants and cardiovascular disease. In S. Waldstein, W. Kop, & L. Katzel (Eds.), *Cardiovascular Behavioral Medicine*. New York: Springer.

## Presentations (28)

Gump, B. B., Hall, D., & Morita, C. Parsimony in autobiographical memory organization. Presented at the annual meeting of the Southeastern Psychological Association, Atlanta, 1990.

Hall, D., Morita, C., & Gump, B. B. Mapping autobiographical memory. Presented at the annual meeting of the Southeastern Psychological Association, Atlanta, 1990.

Gump, B. B., & Ebbesen, E. Death Qualification and conviction proneness: A real effect or experimental artifact? Presented at the annual meeting of the Western Society of Criminology, San Diego, 1992.

Gump, B. B., & Kulik, J. A. Social comparison as a function of emotional versus situational similarity. Presented at the annual meeting of the American Psychological Association, Los Angeles, 1994.

Gump, B. B., Kulik, J. A., & Henderson, G. R. The effects of model similarity in HIV prevention messages. Presented at the annual meeting of the Society for Behavioral Medicine, San Diego, 1995.

Gump, B. B., & Kulik, J. A. "Blaming" the victim in HIV prevention messages: Mediation of the self-protective similarity bias. Presented at the annual meeting of the Society for Behavioral Medicine, Washington, D.C., 1996.

Gump, B. B., & Kulik, J. A. Facial expressions: The effect of partner expression and situational similarity. Presented at the annual meeting of the American Psychological Association, Toronto, Canada, 1996.

Flory, J. D., Gump, B. B., & Matthews, K. A. An interview method to assess hostile attributional style and behavior. Presented at the annual meeting of the American Psychological Association, Toronto, Canada, 1996.

Gump, B. B., Flory, J. D., & Matthews, K. A. Hostile attributions in ambiguous situations: Antecedents and consequences. Presented at the annual meeting of the American Psychological Association, Toronto, Canada, 1996.



Gump, B. B., Kamarck, T., Shiffman, S., et al. Marital satisfaction and cardiovascular reactivity: Looking within the home. Presented at the annual meeting of the Society for Behavioral Medicine, San Francisco, 1997.

Gump, B. B., & Matthews, K.A. "Are Vacations Good for Your Health?: The 9 Year Mortality Experience After the Multiple Risk Factor Intervention Trial ". Presented at the annual meeting of the American Psychosomatic Society, 2000.

Gump, B. B., & Matthews, K. A. " Special intervention reduces CVD mortality for adherent participants in the Multiple Risk Factor Intervention Trial ". Presented at the annual meeting of the American Psychosomatic Society, 2001.

Morgan, W., Gump, B. B., & Gregg, V. " Rituals and adjustment to college ". Presented at the annual meeting of the Eastern Psychological Association, 2001.

Simpson, L., Gump, B. B., & Morey, M. " Self-reported trauma and cardiovascular response to stressful tasks ". Presented at the annual meeting of the Eastern Psychological Association, 2001.

Morey, T. M., Gump, B. B., & Simpson, L. " Past trauma and cardiovascular response to stressful tasks ". Presented at the annual conference of the International Society for Traumatic Stress Studies, 2001.

Morey, T. M., Gump, B. B., Schell, R., & Simpson, L. " Predicting post-stressful-event symptoms from patterns of cognitive appraisal, coping, and dissociation ". Poster presented at the 73rd annual meeting of the Eastern Psychological Association, 2002.

Gump, B. B., Reihman, J., Stewart, P., Lonky, E., and Darvill, T. " Terrorism influences depression, vigilance, and cardiovascular responses during acute stress in children ". Presented at the annual meeting of the American Psychosomatic Society, 2003.

Gump, B. B., Reihman, J., Stewart, P., Lonky, E., and Darvill, T. " Chronic Maternal Depression: Influences on their children's endocrine and cardiovascular responses to acute stress ". Presented at the annual meeting of the American Psychosomatic Society, 2003.

Gump, B. B., Reihman, J., Stewart, P., Lonky, E., and Darvill, T. " Terrorism and cardiovascular responses during acute stress in children ". Presented at the annual meeting of the American Psychosomatic Society, 2004.

Gump, B. B., Reihman, J., Stewart, P., Lonky, E., Darvill, T., and Matthews, K. A. " Blood lead (Pb) levels: A potential mechanism explaining the relation between socioeconomic status and cardiovascular reactivity in children ". Presented at the annual meeting of the American Psychosomatic Society, 2006.

Gump, B. B., Reihman, J., Stewart, P., Lonky, E., Parsons, P. J., and Granger, D. A. " Blood lead (Pb) levels: Further evidence for an environmental mechanism explaining the association between socioeconomic status and psychophysiological dysregulation in children ". Presented at the annual meeting of the American Psychosomatic Society, 2008, as part of Symposium entitled " From socioeconomic status to health: Novel

genetic, neural, environmental, and sleep-related pathways ” organized by Brooks B. Gump, PhD.

Gump, B. B., Birdsall, R., Bendinskas, K., and MacKenzie, J. A. “ A negative association between socioeconomic status (SES) and blood cadmium (Cd) in children: Exploring potential risks for future ill health using proteomics ” . Presented at the annual meeting of the American Psychosomatic Society, 2008.

Birdsall, R., Bendinskas, K., MacKenzie, J.A., Gump, B.B. “ Proteomic study of lead and mercury exposure in children ” . Presented at the annual national meeting of the American Chemical Society, 2008.

Gump, B. B. “ Combined effects of lead and stress in children: Translational studies ” . Invited speaker in symposium “ Development and Metals ” at annual meeting of the International Neurotoxicology Conference, 2008.

Birdsall, R., MacKenzie, J. A., Gump, B. B, Bendinskas, K. “ Proteomic study of lead and mercury exposure in children ” . Sigma Xi Northeast Regional Conference, 2009.

MacKenzie, J. A., Gump, B. B., Roosa, K., Bendinskas, K., Dumas, A., Morgan, R. and Parsons, P. “ Lead Exposure and Cardiovascular Dysregulation in Children ” . The American Physiological Society, New Orleans, LA, 2009.

Gump, B. B., Qian, W., Dumas, A. K., and Kannan, K. “ Associations with impaired response inhibition and risky behavior ” . Presented at the annual meeting of the American Psychosomatic Society, 2011.

Gump, B. B., Bendinskas, K., Dumas, A. K., Palmer, C. D., Parsons, P. J., Mechref, Y., Segu, Z. M., and MacKenzie, J. A. “ The costs and benefits of children eating fish: Lipids, Mercury, and Health ” . Presented at the annual meeting of the American Psychosomatic Society, 2011.

Gump, B. B., Dumouchel, C., Schmitt, E., Main, R., Delsing, A., Yoruk, Y. S., Castro, I. Webster, B., Penala, R., Bergen-Cico, D., Glatt, S., Dykas, M., and Wolford, K. “ Training Veterans to Conduct Research with Fellow Veterans as Part of a NSF “ Research Education for Undergraduates ” (REU) Site: Lessons Learned ” . Presented at the annual meeting of the Eastern Psychological Association Annual Meeting, 2013.

Schmitt, E., and Gump, B. B. “ Relationship of parental depression to a particular component of children's depressive symptoms ” . Presented at the annual meeting of the Eastern Psychological Association Annual Meeting, 2013.

Gump, B. B., and Matthews, K. A. “ The importance of immobility: Cardiovascular disease risk factors associated with rests measured using a novel application of actigraphy data ” . Presented at the annual meeting of the American Psychosomatic Society, 2013.

Stoehr, A., Sandles, O., and Gump, B. B. “ Hostility in children and parents: A potential mechanism for the transmission of CVD risk from parents to children ” . Presented at the annual meeting of the American Psychosomatic Society, 2014.

Gump, B. B., Wolford, K., Bergen-Cico, D., Dykas, M., Glatt S., Reihman, J., Delsing, A., Medina, R., Wolf-Stanton, S., Hachmeister, I.. “ Mindfulness Based Stress Reduction (MBSR) Adapted for Veterans ” , Presented at Eastern Psychological Association ’ s annual meeting, 2015.

Wolf-Stanton, S., Gump, B. B., Ewart, C. K., Hachmeister, I. “ Physiological Reactivity in Child Populations Currently Experiencing Environmental Trauma ” , Presented at Eastern Psychological Association ’ s annual meeting, 2015.

Bergen-Cico, D. Gump, B. B., Wolford, K., Dykas, M., Glatt, S., Reihman, J., Alford, K., Delsing, A., Cisson, K., Hachmeister, I., Medina, R., Preuss, C., Wolf-Stanton, S., Callahan, C., “ Dogs2Vets ” , Presented at Eastern Psychological Association ’ s annual meeting, 2015.

Delsing, A., Wolford, K., Gump, B. B., Bernard, D. “ ICorps Mobile App for Stress Reduction ” , Presented at Eastern Psychological Association ’ s annual meeting, 2015.

Lafont, S. R., Gump, B. B., Ewart, C. K., “ Implicit Agonistic Striving in Both Child and Parent Is Associated With Increased Hypertension Risk in the Child ” , Presented at American Psychosomatic Society ’ s annual meeting, 2015.

Schwartz, N. M., Zajdel, M. E., Ewart, C. K., Gump, B. B. “ Caregiver perception of the urban environment and somatic complaints in children ” , Presented at American Psychosomatic Society ’ s annual meeting, 2015.

Gump, B., Wolford, K., Bergen-Cico, D., Dykas, M., Glatt, S., Reihman, J., Delsing, A., Medina, R., Wolf-Stanton, S., Hachmeister, I. (2015). Mindfulness based stress Reduction adapted for Veterans. Presented at the Annual Eastern Psychological Research Meeting in March, Philadelphia PA.

Delsing, A., Wolford, K., Gump, B. & Bernard, D. (2015). NSF ICorps mobile app for stress reduction. Presented at the EPA Annual Conference in March, Philadelphia PA.

Bergen-Cico, D., Gump, B., Wolford, K., Dykas, M., Glatt, S., Reihman, J., Alford, K., Delsing, A., Cisson, K., Hachmeister, I., Medina, R., Preuss, Wolf-Stanton, & Clare Callahan (2015). Dogs2Vets. Presented at EPA Meeting in March, Philadelphia PA.

Montera, N., Infante, L., Delsing, A., Wolford, K. & Gump, B. (2016), NSF ICorps mobile app for stress reduction: Creation of the minimal viable product and initial validation study outcomes. Presented at EPA March, New York, NY. Citation Papers.

Dykas, M. J., Castro, I., Wolford, K., & Gump, B. (2018, April). *Psychological flexibility moderates the link between combat Exposure and hopelessness in military veterans*. Paper presented at ResilienceCon, Nashville, TN.

Gump, B. B. (2018, April). *The interaction of psychological stress and metal exposures: Effects on children ’ s cardiovascular functioning and subclinical cardiovascular disease*. Invited talk at NIEHS/NHLBI ’ s Webinar Series “ Understanding the Combined Effects of Environmental Chemical and Non-Chemical Stressors ” .

## Grants (Total Awarded As PI: \$3,887,930)

### Ongoing

Principal Investigator and Program Director; NSF Research Education for Undergraduates (REU) program ( “ Training Veterans to Conduct Trauma Research with Fellow Veterans ” ), Awarded \$228,750 for July 1, 2011 – June 30, 2013; Awarded \$285,678 for April 1, 2014 - March 21, 2016; Awarded \$349,456 for April 1, 2016-March 21, 2019.

Co-Investigator (PI: Kevin Heffernan, PhD): R03 Grant, Public Health Service (NIMHHD), “ Racial Differences in Arterial Stiffness and Cognitive Function ” . Awarded \$100,000 for October 25, 2017 to May 31, 2019.

Principal Investigator: Hill Collaborative Grant (SUNY ESF), “ Using ‘ omics technologies to identify biomarkers linking arsenic and heavy metal exposure to Bengali children ’ s cardiovascular disease risk ” . Awarded \$10,215 for November 1, 2016-October 31, 2019.

### Completed

Principal Investigator: R01 Grant, Public Health Service (NIEHS), “ Environmental Toxicants, Race, and Cardiovascular Disease Risk in Children ” ; Awarded \$1,809,340 for February 2013 – April 2018. Awarded an additional \$100,000 as part of a “ Metabolomics Supplement ” for September 1, 2014 to April 1, 2018.

Principal Investigator (co-PI is Sarah Pressman, PhD): Grant from US Travel Association, “ The Psychosocial and Physiological Consequences of Taking and Not Taking Paid Time Off ” ; Awarded \$172,781 for October 5, 2015 – October 4, 2016.

Principal Investigator: Administrative Supplement to R15 Grant funded through American Reinvestment and Recovery Act (ARRA), Awarded \$96,895 for May, 2009-May, 2011.

Principal Investigator: R15 Grant, Public Health Service (NIEHS), “ Lead and Vascular Reactivity to Acute Stress in Children ” ; Awarded \$205,741 for May, 2007 – May, 2010.

Pediatric Loan Repayment Program (NIH), September 2003 – May, 2007; Awarded approximately \$40,000 in student loan payments.

Principal Investigator: R01 Grant, Public Health Service (NIEHS), “ Prenatal PCB Exposure and Acute Stress Reactivity ” ; Awarded \$636,889 for September, 2000 – September, 2004.

Principal Investigator: CISCA Incentive Grant, SUNY Oswego; “ The Effect of Lake Ontario Fish Consumption on Cardiovascular Responses to Acute Stress in Rats and Humans ” ; Awarded \$2,400, July, 2000 – August, 2000.

Co-Principal Investigator: New York Community Trust Grant; “ Prenatal Exposure to PCBs: Possible Links to Abnormal Brain Development and ADHD; Awarded \$168,314 for 10/99 – 10/01 (awarded no-cost extension).

Co-Investigator on grant "Do hostility and stress predict CV mortality in MRFIT" (P.I.: Karen A. Matthews, Ph.D.). Awarded \$376,716 for 10/98 – 2/01.

## Awards and Internal Grants

Falk College “ Faculty of the Year in Research ” ; 2012-2013.

SUNY Scholarly and Creative Activities Grant, Awarded: \$3,000 for Fall, 2009.

President ’ s Award for Scholarly and Creative Activity or Research, 2008.

SUNY Scholarly and Creative Activities Grant, Awarded: \$3,000 for Fall, 2006.

Provost ’ s Award for Creative and Scholarly Activity or Research, 2002.

Who ’ s Who Among America ’ s Teachers, Who ’ s Who Who ’ s Who in Medicine and Healthcare, Who ’ s Who in Science and Engineering, 2002-present

President ’ s Award for Excellence in Academic Advisement, 2001.

SUNY Oswego CISCA Award to study “ PCB-induced Maternal Hypertension ” , June, 2000-August, 2000.

SUNY Oswego CISCA Award to study “ PCB-induced Hypertension ” , February, 1999-February, 2000.

SUNY Oswego Faculty Enhancement Award to study “ Prenatal PCB Exposure and Acute Stress Reactivity ” , Spring, 1999.

Honorable Mention in the 1996 Psi Chi/APA Edwin B. Newman Graduate Research Award competition for paper by Gump and Kulik (1995).

Teaching Assistant Training and Development Award, University of California, San Diego. 1993 and 1994.