

MADHUMITA (BONNIE) GHOSH-DASTIDAR

Office

1200 South Hayes Street
Arlington, VA 22202
Phone: (703) 413-1100 ext. 5919
E-mail: bonnieg@rand.org

Education

1999 Ph.D. Statistics, The Pennsylvania State University
1996 M.A. Statistics, The Pennsylvania State University
1991 B.S. Mathematics and Computer Science, Albright College, Reading, PA

Research Experience

2002 - 2006 Visiting Scholar, Office of Population Research, Princeton University
2003 – Present Statistician, The RAND Corporation, Arlington, VA
1998 - 2003 Associate Statistician, The RAND Corporation, Santa Monica, CA
1996 - 1998 Research Assistant (Advisor: Dr. J. L. Schafer, Penn State)
1994 Statistics Consulting Center, Penn State
1991 - 1992 Mehta and Isaly Worldwide Pharmaceutical Research, New York, NY

Teaching Experience

Courses:

1994 Statistics Instructor, Penn State (Course: *Statistics and Computing*)
1992 - 1994 Teaching Assistant, Penn State (Course: *Introductory Statistics*)

Workshops:

2005 Introduction to Missing Data Methods,
2003 Introduction to Missing Data Methods, Princeton University
2001 Introduction to Nonresponse and Multiple Imputation, RAND
2000 Missing Data, NIMH All-Centers Meeting, UCLA
2000 Imputation and Weighting for Nonresponse, Quality Improvement in
Depression Consortium, Santa Monica
1999 Statistical Methods in Mental Health Research, RAND

Honors & Awards

2001 Statistical Consultant Award, RAND
1996 - 1997 Vollmer-Kleckner Conference Travel Award, Penn State

Honors & Awards (cont'd)

1995	Student Paper Award, International Biometrics Society (ENAR)
1991	Who's Who in American Colleges and Universities,
1991	Nominated to 'USA Today' Outstanding Student Award
1991	Albright College Alumni Graduation Award,
1991	Albright College Award for Outstanding Leadership
1988 - 1990	Dean's Honor List, Albright College
1987 - 1991	Albright College Foreign Student Scholarship

Professional Activities

Program Chair, Health Policy Statistics Section, Joint Statistical Meetings, 2007
ASA's Committee on Privacy and Confidentiality, 2004-2006
Scientific Committee, International Conference on Health Policy Research, 2003, 2005
NIMH Scientific Review Panels, 2002, 2003, 2004
Reviewer for National Science Foundation 2005
Session Chair, Joint Statistical Meetings, 1997, 2001
Member, American Statistical Association
Referee for *Computational Statistics and Data Analysis*, *Statistical Science*, *Applied Statistics*, and *Health Services and Outcomes Research Methodology*, *Journal of Official Statistics*
Research Mentor for WISE (Women in Science and Engineering), Penn State Chapter

Peer-Reviewed Publications

Gates, S.M., Ringel, J.S., Santibañez, L., Guarino, C., Ghosh-Dastidar, B. and Brown, A. Mobility and Turnover Among School Principals. *Economics of Education Review* (forthcoming).

Ghosh-Dastidar, B. "Quantitative Ecology and Econometrics: An Inter-Disciplinary Experience," *Environmental and Ecological Statistics*, 13[4], 353-354, December 2006.

Sastry, N., Ghosh-Dastidar, B., Adams, J. and Pebley, A. The Design of a Multilevel Survey of Children, Families and Communities: The Los Angeles Family and Neighborhood Survey. *Social Science Research*, 35[4], 803-1134, December 2006.

Ghosh-Dastidar, B., and Schafer, J.L. Outlier Detection and Editing Procedures for Continuous Multivariate Survey Data. *Journal of Official Statistics*, 22[3], 487-506, September 2006.

Ghosh-Dastidar, B. and Paddock, S.M. Comment on "The impact of technology on the scientific method." *Chance*, 18, 9-12, October 2006.

Cohen, D., Ghosh-Dastidar, B. et al Alcohol Outlets, Gonorrhea, and the Los Angeles Civil Unrest: A Longitudinal Analysis. *Social Science and Medicine*. 62[12], 3062-3071, June 2006.

Longshore, D.L., Ghosh-Dastidar, B. and Ellickson, P.E. National Youth Anti-Drug Media Campaign and School-Based Drug Prevention: Evidence for a Synergistic Effect in ALERT Plus. *Addictive Behaviors* 31[3], 496-508, March 2006.

Ghosh-Dastidar, B., Longshore, D.L., Ellickson, P.E., McCaffrey, D.M.. Modifying Pro-Drug Risk Factors in Adolescents: Results from Project ALERT. *Health Education & Behavior*, 31[3], 331-334, June 2004.

Chan, K., Orlando, M., Ghosh-Dastidar, B., Sherbourne, C. and Duan, N. The Interview Mode Effect on the Center for Epidemiological Studies Depression (CES-D) Scale: An Item Response Theory Analysis. *Medical Care*, 42[3], 281-289, Mar. 2004.

Ghosh-Dastidar, B. and Schafer, J.L. Multiple Edit/Multiple Imputation for Continuous Multivariate Survey Data. *Journal of the American Statistical Association*, 98[464], Dec. 2003.

Ellickson, P.E., McCaffrey, D.M., Ghosh-Dastidar, B., and Longshore, D.L. New Inroads in Preventing Adolescent Drug Use: Results from a Large-Scale Trial of Project Alert in Middle Schools. *American Journal of Public Health*, 93[11], 1830-1836, Nov. 2003.

Kimmerling, M., Wagner, G., & Ghosh-Dastidar, B. Adherence to HIV antiretrovirals: Are self-reports of missed doses more accurate than reports of no missed doses? *International Journal of STD and AIDS*, 14[4], 281-285, 2003.

Wagner, G.J. & Ghosh-Dastidar, B. Electronic monitoring: Adherence assessment or intervention? *HIV Clinical Trials*, 3[1], 45-51, 2002.

Multiple Imputation of a Prevention Research Survey: Challenges and Practical Solutions. Ghosh-Dastidar B, D McCaffrey. Joint Statistical Meetings: Atlanta, GA. 2001.

Ghosh-Dastidar, M. Multiple Edit/Multiple Imputation for Multivariate Continuous Data. Unpublished dissertation, Penn State University, PA., 1999

Ghosh-Dastidar, Madhumita, Johnson, Glen, Norris, Ruthanna, Orsin, Jo, Shirk, Sue. On Cross-Disciplinarity of a Statistical Ecology and Environmental Statistics Classroom at Penn State, *COENOSSES* 10(2-3): 75-79, 1995.

Other Publications

Longshore, D.L., Ghosh-Dastidar, B., Ellickson, P.E. Project ALERT Plus may leverage the effect of National Youth Media Drug Campaign, Santa Monica, CA, RAND, RAND/RB-9167, 2006.

Mariano, L.T., Orlando, M., Ghosh-Dastidar, B. A Bayesian IRT Model for Comparative Item Performance Under Dual Administration Modes, *2005 Proceedings of the American Statistical Association*. 2005.

Hosek, S.D., Cox, A.G., Ghosh-Dastidar, B., Kofner A., Ramphal, N., Scott, J. and Berry, S.H. Is There Gender Bias in Federal Grant Programs? Santa Monica, CA: RAND/TR-307-NSF, 2005.

Gates, Susan M., Cassandra Guarino, Lucrecia Santibañez and Bonnie Ghosh-Dastidar, with Abigail Brown and Catherine Chung. Career Paths of School Administrators in North Carolina: Insights from an Analysis of State Data. Santa Monica, CA: RAND, RAND/TR-129-EDU, 2004.

Ringel, Jeanne, Susan M. Gates, and Bonnie Ghosh-Dastidar, with Abigail Brown and Catherine Chung. Career Paths of School Administrators in Illinois: Insights from an Analysis of State Data. Santa Monica, CA: RAND, RAND/TR-123-EDU, 2004.

Sastry, N., Ghosh-Dastidar, B., Adams, J. and Pebley, A. "The Design of a Multilevel Longitudinal Survey of Children, Families and Communities: The Los Angeles Families and Neighborhood Survey." DRU-2400/1-LAFANS, RAND, 2001.

Publications forthcoming

Scribner, Richard, Theall, Katherine P., Ghosh-Dastidar, Bonnie, Mason, Karen, Cohen, Deborah, Simonsen, Neal. Structural Determinants of Social Capital at the Neighborhood Level: A Longitudinal Analysis of Loss of Off-Premise Alcohol Outlets and Voting (Revise and re-submit).

Domina, Thurston, Ghosh-Dastidar, Bonnie, Tienda, Marta. Students Left Behind: Measuring 10th to 12th Grade Student Persistence Rates in Texas High Schools. (in preparation)

Ghosh-Dastidar, Bonnie, Domina, Thurston, Tienda, Marta. Stayers, Drop-outs and Class Rank: High School Transitions under the Texas Top 10% Law. (in preparation)

Grants

Co-Investigator, "An Evaluation of Early Childcare Arrangements," Packard Foundation.

Co-Investigator, "Neighborhood Environment and Alcohol Health Disparities," National Institute on Alcohol Abuse and Alcoholism, May 2005 – April 2007.

Investigator, "Developing Statistics Capability," RAND, October 2005 - September 2006.

Principal Investigator, "College Choice and the Texas 10% Policy," National Science Foundation (sub-contract from Princeton University), April 2004 – March 2007.

Co-Investigator, "Neighborhood Effects on Children's Well-Being," National Institute of Child Health and Human Development, March 2002 – February 2006.

Co-Investigator, "Scaling-Up Standards-Based Accountability," National Science Foundation/Interagency Education Research Initiative, November 2002 – November 2007.

Principal Investigator, "Mode Effect and Adjustment in Mental Health Services," National Institute of Mental Health, August 2001 - 2003.

Co-Investigator, "Using Behavioral Science to Explain Primary Care Provider Depression Care," National Institute of Mental Health, July 2001 - June 2003.

Co-Investigator, "The Los Angeles Study of Families and Communities," National Institute of Child Health and Human Development, September 1998 - November 2003.

Co-Investigator, "Project Alert Plus: Prevention in a Rural State," National Institute of Drug Abuse, September 1997 - August 2002.

Co-Investigator, "Grandparents and Grandchildren," National Institute of Child Health and Human Development, July 1995 - June 2000.

Co-Investigator, "Quality Improvement for Depression: A Multi-Study Collaborative Project," MacArthur Foundation, September 1996 - November 1999.

Grants Under Review

Co-Principal Investigator, "Cross Survey Multiple Imputation for Panel Surveys with Overlapping Designs," National Science Foundation.

Co-Investigator, "Women, Neighborhoods, and Coronary Heart Disease," National Heart, Lung, and Blood Institute.

Co-Investigator, "Practice Trials: A Tool to Assess Adherence Readiness," National Institute of Mental Health.