

Gang Han

CONTACT INFORMATION

Biostatistics Core, H. Lee Moffitt Cancer Center & Research Institute, MRC/BIOSTAT, 12902 Magnolia Drive, Tampa, FL, 33612-9416
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EDUCATION

Ph.D. in Statistics, The Ohio State University, 2008

- Dissertation Topic: “Modeling the Output from Computer Experiments Having Quantitative and Qualitative Input Variables and Its Application”
- Advisors: Dr. Thomas Santner and Dr. William Notz

M.S. in Statistics, The Ohio State University, 2005

B.S. in Computer Science, Beijing University of Technology, Beijing, China, 2003

PROFESSIONAL EXPERIENCE

- Biostatistician, H. Lee Moffitt Cancer Center & Research Institute, 2008 – present
- Instructor, Biostatistics 101 for Cancer Researchers, H. Lee Moffitt Cancer Center & Research Institute, 2009 – present
- Teaching Associate, Department of Statistics, The Ohio State University, 2007 – 2008
- Research Fellow Internship, The Statistical and Applied Mathematical Sciences Institute (SAMSI), 2006
- Research Associate, Department of Statistics, The Ohio State University, 2005 – 2008
- Research Associate, the Hospital for Special Surgery, Cornell University, 2005 – 2008
- Statistics Consultant, School of Social Work, The Ohio State University, 2004 – 2005
- Web Administrator, Department of Statistics, The Ohio State University, 2004 – 2005

PROFESSIONAL ASSOCIATIONS

American Statistical Association, Institute for Operations Research and the Management Sciences

RESEARCH AREAS

Design and analysis of computer experiments, Bayesian statistics, Spatial statistics, Survival data analysis, Cancer research in Epidemiology, Applications of Statistics to Biomedical Research and Bioinformatics

PUBLICATIONS

PUBLISHED AND SUBMITTED PAPERS

1. **Han, G.**, Santner, T. J., and Rawlinson, J. J. (2009) “Simultaneous Determination of Calibration and Tuning Parameters,” *Technometrics*, 51(4), 464-474.
2. **Han, G.**, Santner, T. J., Notz, W. I., and Bartel, D. L. (2009) “Prediction for Computer Experiments Having Quantitative and Qualitative Input Variables,” *Technometrics*, 51(3), 278-288.
3. Droc, C., Bowers, J. W., Bui M., Nicosia, S. V., Chen, A. and **Han, G.**, “Frequency of Mast Cells in Sentinel Lymph Nodes of Breast Cancer Patients As Evaluated by Imprint Cytology,” submitted.
4. Lee, J., **Han, G.**, Fulp, W. J., and Giuliano, A. “Incidence Intervals for Excessive Zero Counts Data: A practical guide,” submitted.

WORKING PAPERS

1. **Han, G.**, Schell, M. J., and Kim, J. “Improved Survival Modeling Using a Piecewise Exponential Approach,” in preparation.

2. **Han, G.**, Notz, W. I., and Long, J. P. “Modeling Computer Experiments Having Quantitative and Qualitative Input Variables – An Analysis of Variance Approach,” in preparation.

ACTIVE GRANTS

1. National Institute of Health / National Cancer Institute, 5R01-CA106414-03
 - Title: Population-Based Analysis of Ovarian Cancer Biomarkers,
 - Major Goal: develop a blood test for the detection of ovarian cancer and management of ovarian cancer patients,
 - Dates: 09/01/2008 - 05/31/2010,
 - Role: Statistical Co-Investigator
2. Moffitt Cancer Center, W81XWH-08-2-0101
 - Title: The National Functional Genomics Center Grant,
 - Major Goal: validate the concept that molecular signatures in tumors predict cancer risk, diagnosis, prognosis, and response to therapy, as well as identify new molecular targets for the development of more effective cancer prevention and personalized therapeutic care,
 - Dates: 07/01/2009 - 06/30/2013,
 - Role: Statistical Co-Investigator
3. National Cancer Institute, R01-CA134347-01A1
 - Title: Extended Self-Help for Smoking Cessation,
 - Major Goal: evaluate the effectiveness of a series of self-help booklets designed for preventing smoking relapse for pregnant women,
 - Dates: 05/11/2009 - 03/31/2014,
 - Role: Statistical Co-Investigator
4. National Institute of Health / National Cancer Institute, the American Recovery and Reinvestment Act (ARRA): 1-RC2-CA148332-01
 - Title: Developing Information Infrastructure Focused on Cancer Comparative Effectiveness Research,
 - Major Goal: To create the foundation of a cancer CER program at Moffitt, the following specific aims are proposed: 1. Enhance the Total Cancer Care computational infrastructure to support Comparative Effectiveness Research by expanding data management resources, integrating automated data extraction methodologies across the Moffitt health-care enterprise, and creating user interfaces to data for researchers and clinicians. 2. Empower an Interdisciplinary CER Project Team within TCC to unite functionalities in biomedical informatics, biostatistics, clinical trials and information technology. 3. Assess CER infrastructure development using an iterative pilot project based on ongoing and future clinical trials,
 - Dates: 09/29/2009 - 08/31/2011,
 - Role: Statistical Co-Investigator

INVITED TALKS

1. The Institute for Operations Research and the Management Sciences (INFORMS) Annual Meeting, San Diego, CA, October 11 – 14, 2009
2. Kickoff Workshop, 2006-07 Program on Development, Assessment and Utilization of Complex Computer Models, Internship at the Statistical and Applied Mathematical Sciences Institute (SAMSI), September 10 – 14, 2006
3. Summer School on the Design and Analysis of Computer Experiments, The IRMACS Centre, Simon Fraser University, Burnaby, British Columbia, CA, August 11 – 16, 2006

OTHER
CONFERENCE
PRESENTATIONS

- Presented talks
 - Joint Statistical Meetings (JSM), Denver, CO, August 2 – 7, 2008
 - Joint Statistical Meetings (JSM), Salt Lake City, UT, July 29 – August 2, 2007
 - Joint Statistical Meetings (JSM), Seattle, WA, August 6 – 10, 2006
 - Joint Statistical Meetings (JSM), Minneapolis, MN, August 7 – 11, 2005
- Coauthored talks
 - Joint Statistical Meetings (JSM), Washington, DC, August 1 – 6, 2009
 - 2009 Joint Conference of Society for Research on Nicotine and Tobacco, Dublin, Ireland, April 27 – 30, 2009
- Posters
 - 2010 The Society of Surgical Oncology’s 63rd Annual Cancer Symposium, St. Louis, MO, March 3 – 7, 2010

SERVICES AND
AWARDS

- Craig Cooley Memorial Award for exceptional scholarly excellence and leadership abilities, Department of Statistics, The Ohio State University, 2009
- Student President, Department of Statistics, The Ohio State University, 2005 – 2006
- Student Luncheon Scholarship, American Statistical Association, 2005
- Academic Achievement Award, Beijing University of Technology, 2002
- Chairman of Undergraduate Student Social Group, Department of Computer Science, Beijing, University of Technology 1999 – 2001

COMPUTER SKILLS

- Statistical Packages: Matlab, R, S-PLUS, SAS, Minitab, Data Desk, SPSS, JMP.
- Languages and Application Software: C/C++, Assembling Language, VB6.0, Rational Rose, Visio, UML, Pascal, ASP, PHP, HTML, MS SQL server, Synario, Auto CAD, L^AT_EX.
- Additional Experience: Markov Chain Monte Carlo simulations of Bayesian posterior distributions; the computing background includes numerical algorithm, data structures, operating systems, object oriented programming, and software engineering.
- Operating Systems: Unix/Linux, Windows, Macintosh.