

## Brian T. Gill, Ph.D.

Professor of Mathematics  
Seattle Pacific University

Phone: (206) 281-2954  
E-mail: bgill@spu.edu

### Education

**Ph.D., Mathematics**, The University at Albany, State University of New York, 1999.

Dissertation: *Properties of the Hyperbolic Metric in Planar Domains*

**M.S., Biometry & Statistics**, The University at Albany, State University of New York, 1999.

**M.A., Mathematics**, University of Kentucky, 1994.

**B.S., Mathematics**, Truman State University, 1991.

### Academic Positions

#### Seattle Pacific University, Mathematics Department

**Professor**, 2010-present.

**Chair**, 2007-2011.

**Associate Professor**, 2005-2010.

**Assistant Professor**, 1999-2005.

**Courses Taught:** Calculus I, Calculus II, Calculus III, Multivariable Calculus, Vector Calculus, Differential Equations, Linear Algebra, Introduction to Analysis, Real Analysis II, Complex Variables, Applied Analysis, Introduction to Statistical Reasoning, Introduction to Statistics for Sciences, Statistics for Business & Economics, Probability Theory, Applied Statistics, Probability & Statistics, Mathematical Statistics, Linear Models, University Seminar.

#### University of Washington, Mathematics Department

**Lecturer**, Summer 2009.

**Auxiliary Faculty**, Summer 2003.

#### The University at Albany, SUNY, Department of Mathematics & Statistics

**GAANN Fellow** (U.S. Department of Education Fellowship, Graduate Assistants in Areas of National Need), 1997-1999.

**SUNY Presidential Fellow**, 1994-1997.

#### University of Kentucky, Mathematics Department

**Teaching Assistant**, 1992-1994.

### Other Professional Employment and Statistical Consulting

Statistician, Value Sensitive Design Research Lab, Information School, University of Washington, 2003-present.

Statistician, Human Interaction with Nature and Technological Systems Lab, Department of Psychology, University of Washington, 2008-present.

Statistical Consultant, Security and Privacy Research Lab, Department of Computer Science & Engineering, University of Washington, 2010-present.

Reader, Advanced Placement Statistics Exam, Educational Testing Services, 2006, 2008, 2009, 2010, 2011, 2012, and 2014.

Statistical Consultant, Chicago Zoological Society, 2005-2006.

Statistical Intern, New York State Department of Health, Division of Nutrition, Evaluation and Analysis Unit, 1997-1999.

Statistical Consultant, Child Research Center, University at Albany Dept. of Educational Psychology & Statistics, 1998.

## Publications

### Peer Reviewed Journal Articles

- Watkins, Kari, Alan Borning, G. Scott Rutherford, Brian Ferris, and Brian Gill. (2013) "Attitudes of bus operators towards real-time transit information tools." *Transportation* 40(5), pp. 961-980.
- Kahn, Peter H., Jr., Takayuki Kanda, Hiroshi Ishiguro, Nathan G. Freier, Rachel L. Severson, Brian T. Gill, Jolina H. Ruckert, and Solace Shen. (2012) "'Robovie, you'll have to go into the closet now': Children's social and moral relationships with a humanoid robot." *Developmental Psychology* 48(2), pp. 303-314.
- Melson, Gail F., Peter H. Kahn, Jr., Alan Beck, Batya Friedman, Trace Roberts, Erik Garrett, & Brian T. Gill. (2009) "Children's Behavior Toward and Understanding of Robotic and Living Dogs," *Journal of Applied Developmental Psychology*, 30(2), pp. 92-102.
- Borning, Alan, Batya Friedman, Janet L. Davis, Brian T. Gill, Peter H. Kahn, Jr., Travis Kriplean, & Peyina Lin. (2009) "Public participation and value advocacy in information design and sharing: Laying the foundations in advance of wide-scale public deployment," *Information Polity*, 14(1-2), pp. 61-74.
- Kahn, Peter H., Jr., Batya Friedman, Brian T. Gill, Jennifer Hagman, Rachel L. Severson, Nathan G. Freier, Erika N. Feldman, Sybil Carrère, & Anna Stolyar. (2008) "A Plasma Display Window? – The Shifting Baseline Problem in a Technologically-Mediated Natural World," *Journal of Environmental Psychology*, 28(2), pp. 192-199
- Kahn, Peter H., Jr., Carol D. Saunders, Rachel L. Severson, Olin E. Myers, & Brian T. Gill. (2008) "Moral and Fearful Affiliations with the Animal World: Children's Conceptions of Bats," *Anthrozoös*, 21(4), pp. 375-386.
- Gill, Brian T. and Thomas H. MacGregor. (2006) "The Hyperbolic Density near an Isolated Boundary Point," *Rocky Mountain Journal of Mathematics*, 36(6), pp. 1873-1884.
- Friedman, Batya, Peter Kahn, Jennifer Hagman, Rachel Severson, & Brian Gill. (2006) "The Watcher and The Watched: Social Judgments about Privacy in a Public Place," *Human-Computer Interaction*, 21(2), pp. 235-272.
- Gill, Brian T. and Thomas H. MacGregor. (2003) "Minimum Points and Level Sets of the Hyperbolic Density," *Complex Variables*, 48(3), pp. 225-234.

### Peer Reviewed Proceedings

- Kahn, Peter H., Jr., Takayuki Kanda, Hiroshi Ishiguro, Brian T. Gill, Solace Shen, Heather E. Gary, and Jolina H. Ruckert. (2015) "Will People Keep the Secret of a Humanoid Robot?: Psychological Intimacy in HRI." *Proceedings of the Tenth Annual ACM/IEEE International Conference on Human-Robot Interaction (HRI '15)*.
- Denning, Tamara, Batya Friedman, Brian Gill, Daniel B. Kramer, Matthew R. Reynolds, and Tadayoshi Kohno. (2014) "CPS: Beyond Usability: Applying Value Sensitive Design Based Methods to Investigate Domain Characteristics for Security for Implantable Cardiac Devices." *Proceedings of the Annual Computer Security Applications Conference (ACSAC)*.
- Roesner, Franziska, Brian T. Gill, and Tadayoshi Kohno. (2014) "Sex, Lies, or Kittens? Investigating the Use of Snapchat's Self-Destructing Messages." *Proceedings of the 18th International Conference on Financial Cryptography and Data Security*.
- Kriplean, Travis, Caitlin Bonnar, Alan Borning, Bo Kinney, and Brian Gill. (2014) "Integrating on-demand fact-checking with public dialogue." *Proceedings of the 17th ACM conference on Computer supported cooperative work & social computing (CSCW '14)*.

- Kahn, Peter H., Jr., Takayuki Kanda, Hiroshi Ishiguro, Brian T. Gill, Jolina H. Ruckert, Solace Shen, Heather E. Gary, Aimee L. Reichert, Nathan G. Freier, and Rachel L. Severson. (2012) "Do people hold a humanoid robot morally accountable for the harm it causes?" *HRI '12 Proceedings of the seventh annual ACM/IEEE international conference on Human-Robot Interaction*, pp. 33-40.  
*Best Paper Award, HRI '12.*
- Woelfer, Jill P., Amy Iverson, David G. Hendry, Batya Friedman, and Brian T. Gill. (2011) "Improving the Safety of Homeless Young People with Mobile Phones: Values, Form and Function." *Proceedings of the 29th International Conference on Human Factors in Computing Systems*. ACM Press, pp. 1707-1716.
- Czeskis, Alexei, Ivayla Dermendjieva, Hussein Yapit, Alan Borning, Batya Friedman, Brian T. Gill, and Tadayoshi Kohno. (2010) "Parenting from the pocket: value tensions and technical directions for secure and private parent-teen mobile safety." *Proceedings of the Sixth Symposium On Usable Privacy and Security*. SOUPS '10, vol. 485. ACM, New York, NY, pp. 1-15.  
*2011 Computers, Privacy & Data Protection Multidisciplinary Privacy Best Paper Award.*
- Denning, Tamara, Alan Borning, Batya Friedman, Brian Gill, Tadayoshi Kohno, and William H. Maisel. (2010) "Patients, Pacemakers, and Implantable Defibrillators: Human Values and Security for Wireless Implantable Medical Devices." *Proceedings of the 28th International Conference on Human Factors in Computing Systems*, pp. 917-926.  
*2011 Computers, Privacy & Data Protection Multidisciplinary Privacy Best Paper Award Honorable Mention.*
- Kahn, Peter H., Jr., Brian T. Gill, Aimee L. Reichert, Takayuki Kanda, Hiroshi Ishiguro, & Jolina H. Ruckert. (2010). "Validating characterizations of sociality in HRI." *Proceedings of the Second International Symposium on New Frontiers in Human-Robot Interaction*. United Kingdom: The Society for the Study of Artificial Intelligence and Simulation of Behaviour, pp. 50-57.
- Kahn, P. H., Jr., Gill, B. T., Reichert, A. L., Kanda, T., Ishiguro, H., Ruckert, J. H. (2010). "Validating interaction patterns in HRI." *Proceedings of the 5th ACM/IEEE International Conference on Human-Robot Interaction*. New York, NY: Association for Computing Machinery, pp. 183-184.
- Friedman, B., Höök, K., Gill, B., Eidmar, L. & Sallmander Prien, C. (2008) "Personlig Integritet: A Comparative Study of Perceptions of Privacy in Public Places in Sweden and the United States." *Proceedings of the Fifth Nordic Conference on Human-Computer Interaction - NordiCHI 2008* (pp. 142-151). New York, NY: ACM Press.
- Friedman, B., Borning, A., Davis, J. L., Gill, B. T, Kahn, Jr., P., Kriplean, T., & Lin, P. (2008) "Laying the Foundations for Public Participation and Value Advocacy: Interaction Design for a Large Scale Urban Simulation," *Proceedings of the 9th Annual International Conference on Digital Government Research (dg.o2008)* (pp. 305-314). Montreal, Canada: Digital Government Society of North America.
- Stanton, C. M., Kahn, P.H., Jr., Severson, R. L., Ruckert, J. H., & Gill, B. T. (2008) "Robotic Animals Might Aid in the Social Development of Children with Autism," *Proceedings of the 3<sup>rd</sup> ACM/IEEE International Conference on Human Robotic Interaction* (pp. 271-278). New York, NY: ACM Press.
- Miller, J. K., Friedman, B., Jancke, G., & Gill, B. (2007) "Value tensions in design: The value sensitive design, development, and appropriation of a corporation's groupware system," *Proceedings of GROUP 2007* (pp. 281-290). New York: ACM Press.

### Authored Software Manuals

- Gill, Brian. *Using JMP with Moore/McCabe/Craig Exploring the Practice of Statistics*. New York: W. H. Freeman, 2013.
- Gill, Brian. *Using Minitab with Moore/McCabe/Craig Exploring the Practice of Statistics*. New York: W. H. Freeman, 2013.
- Gill, Brian. *Using SPSS with Moore/McCabe/Craig Exploring the Practice of Statistics*. New York: W. H. Freeman, 2013.

### Invited Chapters in Books

- Kahn Jr., Peter H., Aimee L. Reichert, Brian T. Gill, Takayuki Kanda, Hiroshi Ishiguro, and Jolina H. Ruckert. (2011) "Validating characterizations of sociality in HRI: It's more than psychometrics." *New Frontiers in Human-Robot Interaction*. Ed. K. Dautenhahn and J. Saunders. Amsterdam: John Benjamins, pp. 57- 72.
- Friedman, Batya, Peter H. Kahn Jr., Jennifer Hagman, Rachel L. Severson, and Brian Gill. (2009) "The Watcher and the Watched: Social Judgments about Privacy in a Public Place." *Media Space 20+ Years of Mediated Life*. Ed. Steve Harrison. Computer Supported Cooperative Work. London: Springer, pp. 145-176.

### Other Publications

- Alberts, K. Scott, Nancy Boynton, Brian Gill, Patricia Humphrey, John McKenzie, Michael A. Posner, and Andrew Zieffler. "Response to 'Statistics a la Mode'." *AmStat News*, February 2012.
- Alberts, K. Scott, Nancy Boynton, Brian Gill, Patricia Humphrey, John McKenzie, Michael A. Posner, and Andrew Zieffler. "Letter to the Editor: Mon Dieu!" *Math Horizons*, February 2012.
- Kahn, P. H. Jr., Kanda, T., Ishiguro, H., Ruckert, J. H., Severson, R. L., Freier, N. G., Gill, B. T., Kane, S. K., Klasnja, P., and Reichert, A. L., (2010). *Coding Manual for the "Robovie, You Need to Go into the Closet Now!" Study*. Seattle, University of Washington, UW ResearchWorks Archive.
- Gill, Brian T., Problem #1729, "Products of Odd Integers", *Mathematics Magazine*, 2005, Vol. 78, No. 4, p. 324.
- Gill, Brian T., *Properties of the Hyperbolic Metric in Planar Domains*, Doctoral Dissertation, The University at Albany, State University of New York, 1999.
- Gill, Brian T. *WIC Participation and Low Birth Weight among Medicaid Birth Mothers in New York State*, Master's project, The University at Albany, State University of New York, 1999.

### Grants

- Gill, Brian T. and John Hossler. (2013) Academic Renewal Grant, College of Arts & Sciences, SPU. \$4777. "Course development of introductory statistics courses MAT 1300 and MAT 2360."
- Gill, Brian T. (2009) CURM Mini-Grant, Center for Undergraduate Research in Mathematics. \$19,850.
- Gill, Brian T. (2006) SPU Senior Faculty Research Grant. \$3184. "Maternal Age, Smoking, and Low Birth Weight: Interaction Effects in Logistic Regression."
- Gill, Brian, Wai Lau, Steve Johnson, and Robbin O'Leary. (2004) Academic Renewal Grant, College of Arts & Sciences, SPU. \$4333. "Incorporating the use of computers and Maple into Calculus I & II."

Vokos, Stamatis (PI), Brian Gill, John Lindberg, and Lane Seeley. (2003-2005) NSF Course, Curriculum, and Laboratory Improvement Grant, DUE-0310583, National Science Foundation, Division of Undergraduate Education. \$88,000. "Adaptation and Implementation of Research-based Curricula in Introductory Physics Courses."

Gill, Brian T. (2000) Digital Materials Development Grant, Northwest Academic Computing Consortium. \$5000 plus \$3000 matching funds from SPU. "Interactive Web-Based Materials for Calculus Using LiveMath."

### **Professional Service**

Member, MAA Curriculum Reform Across the First Two Years (CRAFTY) Subcommittee of the Committee on the Undergraduate Program in Mathematics (CUPM), 2009-2015

Consultant, Mathematical Association of America (MAA) national Project NExT, 2006-present

Chair, Statistics Education Special Interest Group of the Mathematical Association of America (MAA),  
Chair-Elect 2010, Chair 2011, Past-Chair 2012

Organizer, six contributed paper and panel sessions at national meetings of the MAA, 2011-2013

Newsletter Editor, MAA Pacific Northwest Section (PNW MAA), 2001-2003

Exploratory Committee for 2004 PNW MAA meeting in Anchorage, Alaska

Advisory Board for Pacific Northwest Project NExT, 2000-2004

Organizing Committee for 2002 Joint PNW MAA-AMS meeting in Portland, Oregon

Volunteer statistical support for school psychologists in Federal Way School District studying WASL reading performance, 2001-2002

Local Arrangements Chair for 2001 PNW MAA Meeting

### **University Service at Seattle Pacific University**

Mathematics Placement Testing Coordinator, 2010-present

Curriculum Committee, 2012-2014

Chair, 2013-2014

Chair-elect 2012-2013

Presidential Taskforce on Undergraduate Research, 2008-2010

Chair, Mathematics Department, 2007-2011

Instructional Development Committee, 2001-2004

Chair, 2003-2004

Teaching, Learning, and Technology Roundtable, Seattle Pacific University, 2000-2001

Technology Task Force, Seattle Pacific University, 1999-2000

Webmaster, Mathematics Department website, 1999-present