

## Gregory E. Wilding

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### Education

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2003	Ph.D. in Statistics, University of Rochester
1998	M.A. in Statistics, University of Rochester
1996	B.S., The State University of New York, College at Brockport Majors: Mathematics, Business Administration Minor: Computer Science

### Professional Experience

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Sept. 2009 – Present	Associate Professor (Tenured), University at Buffalo, Department of Biostatistics. Duties include methodological research in statistics, collaborative biostatistical research, grant and manuscript writing, teaching of undergraduate and graduate level statistics/biostatistics courses, and supervision of graduate students.
Aug. 2009 – Present	Vice Chair, Roswell Park Cancer Institute, Department of Biostatistics and Bioinformatics. (Renamed from Department of Biostatistics in March 2012) Duties include administration of biostatistical support for cancer clinical trials and epidemiological studies.
Jan. 2010 – Present	Director of the Biostatistics Resource, Roswell Park Cancer Institute.
Sept. 2009 – Present	Associate Professor of Biostatistics and Oncology, Roswell Park Cancer Institute, Department of Biostatistics.
Feb. 2009 – Present	Director of the Clinical Trials and Translational Science Biostatistical Division, Roswell Park Cancer Institute, Department of Biostatistics.
Sept. 2009 – Present	Adjunct Associate Professor, University at Buffalo, School of Nursing.
Sept. 2009 – Jan. 2010	Associate Director of the Biostatistics Resource, Roswell Park Cancer Institute.
Sept. 2003 – Sept. 2009	Assistant Professor (Tenure-track), University at Buffalo, Department of Biostatistics.
Aug. 2005 – Aug. 2009	Assistant Chair, Roswell Park Cancer Institute, Department of Biostatistics.
April 2008 – Sep. 2009	Assistant Director of the Biostatistics Resource, Roswell Park Cancer Institute.

May 2007 – Sept. 2009	Assistant Professor of Biostatistics and Oncology, Roswell Park Cancer Institute, Department of Biostatistics.
Oct. 2006 – Sept. 2009	Adjunct Assistant Professor, University at Buffalo, School of Nursing.
March 2005 – Aug. 2005 Aug. 2002 – Sept. 2004	Director of the Statistical Consulting Laboratory, University at Buffalo. Duties included statistical consultation on the design and analysis of scientific experiments from across a variety of disciplines.
July 2004 – Feb. 2005	Associate Biostatistics Consultant, Roswell Park Cancer Institute, Department of Biostatistics.
June 2003 – Sept. 2003	Research Assistant Professor, University at Buffalo, Department of Biostatistics.
Aug. 2002 – June 2003	Research Assistant Professor, University at Buffalo, Department of Social and Preventive Medicine, Division of Biostatistics.
May 1997 – Aug. 2002	Research trainee, University of Rochester, Department of Biostatistics. Supported by NIH Environmental Health Science Training Grant. Statistical consultant on long-term and short-term projects.
Sept. 1996 – May 1999	Teaching assistant, University of Rochester. Courses for undergraduates, graduate biomedical students and research fellows. Material included concepts of elementary statistical theory, use and understanding of statistical software and analysis of clinical trials.

## Research Interests

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Clinical trial design, permutation tests, tests for trend, resampling techniques, goodness-of-fit tests, tests of independence, biostatistics.

## Computer Skills

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Operating Systems: Microsoft Windows, UNIX.

Software and Languages: SAS, S-plus, R, StatXact, SPSS, MINITAB, JMP, Stata, PASS, nQuery Systat, SigmaPlot, Mathematica, C++, LaTeX, Microsoft Office (Word, Excel, Access, Powerpoint).

## Awards

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School of Public Health and Health Professions Outstanding Teacher of the Year, 2006

American Speech-Language-Hearing Association Editors' Award, 2005

Who's Who in Health Sciences Education, 2003

University of Rochester Medical Center Teaching Assistant Award, 1998

Environmental Health Sciences Training Grant, 1997-2002

Sigma Beta Delta National Honor Society in Business, Management, and Administration, 1996

Alpha Chi National College Honor Scholarship Society, 1996

## Teaching Experience

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### Sole Instructor (All UB courses)

STA 111 – Introduction to Probability (3.0 credits; Fall 2002, Spring 2003)

STA 111 (revised) – Introduction to Probability and Statistics (3.0 credits; Fall 2003)

STA 527 – Introduction to Medical Statistics (4.0 credits; Spring and Fall semesters 2004-2005)

STA 503 – Regression Analysis (3.0 credits; Fall semesters 2005-2007)

STA 504 – Statistical Comparisons and Associations (3.0 credits; Spring semesters 2005-2009)

STA 506 – Introduction to Statistical Computing (3.0 credits; Spring semesters 2006-2007)

STA 526 – Design and Analysis of Clinical Trials (3.0 credits; Fall semesters 2008-2010, 2012)

STA 671 – Advanced Special Topics in Statistics: Advanced Design and Analysis of Clinical Trials (3.0 credits; Fall 2011)

### Guest Lecturer

UE 251 – Honors Seminar: Undergraduate Research Academy Seminar, “The Hows and Whys of Clinical Research” (1 lecture on biostatistical concepts; Fall 2006)

UE 142 – Research Seminar: Undergraduate Research Academy Seminar, “Research Exploration” (1 lecture on drug development and the role of biostatistics; Fall 2007)

UE 141 – Research Seminar: Undergraduate Research Academy Seminar, “Introduction to the Center of Excellence” (1 lecture on cancer clinical trials; Spring 2008)

Roswell Park Cancer Institute Surgical Oncology Fellow Trainee Lecture Series (3 lectures on biostatistical concepts; Summer 2006)

Roswell Park Cancer Institute Surgical Oncology Fellow Trainee Lecture Series (3 lectures on clinical trials; Spring 2008).

## Publications/Papers

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### Books

Hutson, A.D., **Wilding, G.E.**, and Cai, X. (2007). *Bootstrap and Permutation Methods Using the SAS System*. Technical Report 07-01, Department of Biostatistics, University at Buffalo.

## Theory and Methodological Research (21 total published or accepted)

- [1] Marchetti, C.E., Mudholkar, G.S. and **Wilding, G.E.** (2002). Testing goodness-of-fit of the gamma models. *Recent Advances in Statistical Methods*, edited by Y.P. Chaubey, World Scientific Publishing Company, Inc., London.
- [2] Mudholkar, G.S. and **Wilding, G.E.** (2003). On the conventional wisdom regarding two consistent tests of bivariate independence. *Journal of the Royal Statistical Society, Series D*, **52**, 41-57.
- [3] Mudholkar, G.S., **Wilding, G.E.\*** and Mietlowski, W.L. (2003). Robustness properties of the Pitman-Morgan test. *Communication in Statistics – Theory & Methods*, **32**, 1801-1816.
- [4] Mudholkar, G.S. and **Wilding, G.E.\*** (2005). Two Wilson-Hilferty type approximations for the null distribution of the Blum, Kiefer and Rosenblatt test of bivariate independence. *Journal of Statistical Planning and Inference*, **128**, 31-41.
- [5] Tian, L. and **Wilding, G.E.** (2005). Confidence intervals of the ratio of means of two independent inverse Gaussian distributions. *Journal of Statistical Planning and Inference*, **133**, 381-386.
- [6] **Wilding, G.E.\***, Mudholkar, G.S. and Kollia, G.D. (2007). Two sets of isotones for comparing tests of exponentiality. *Journal of Statistical Planning and Inference*, **137**, 3815-3825. **Invited paper for special issue in honor of S.N. Roy.**
- [7] **Wilding, G.E.\*** and Mudholkar, G.S. (2008). Empirical approximations for Hoeffding's test of bivariate independence using two Weibull extensions. *Statistical Methodology*, **5**, 160-170.
- [8] **Wilding, G.E.\*** and Mudholkar, G.S. (2008). Appropriateness of gamma models using characteristic independence of the mean and the coefficient of variation. *Journal of Statistical Planning and Inference*, **138**, 3813-3821.
- [9] **Wilding, G.E.\*** and Mudholkar, G.S. (2008). Some modifications of the Z-tests of normality and their isotones. *Statistical Methodology*, **5**, 397-409.
- [10] Tian, L. and **Wilding, G.E.** (2008). Confidence interval estimation of a common correlation coefficient. *Computational Statistics and Data Analysis*, **52**, 4872-4877.
- [11] Shan, G., Vexler, A., **Wilding, G.E.** and Hutson, A.D. (2011). Simple and exact empirical likelihood ratio tests for normality based on moment relations. *Communications in Statistics - Simulation and Computation*, **40**, 141-158.
- [12] **Wilding, G.E.**, Cai, X., Hutson, A.D. Yu, and Zhangsheng.(2011). A linear model-based test for the heterogeneity of conditional correlations. *Journal of Applied Statistics*, **38**, 2355-2366.
- [13] Shan, G., Ma, C., Hutson, A.D., and **Wilding, G.E.\*** (2012). An efficient and exact approach for detecting trends with binary endpoints. *Statistics in Medicine*, **31**, 155-164.
- [14] Hutson, A. and **Wilding, G.E.** (2012). An examination of the relative impact of type I and type II error rates in phase II drug screening trial queues. *Pharmaceutical Statistics*, **11**, 157-162.

- [15] **Wilding, G.E.\***, Shan, G. and Hutson, A.D. (2012). Exact two-stage Mann-Whitney designs for phase II activity trials. *Contemporary Clinical Trials*, **33**, 332-341.
- [16] Shan, G., Hutson, A.D., and **Wilding, G.E.\*** Two-stage k-sample designs for the ordered alternative problem. *To appear in Pharmaceutical Statistics*.
- [17] **Wilding, G.E.\***, Chandrasekhar, R., and Hutson, A.D. A new linear model-based approach for inferences on the mean area under the curve. *To appear in Statistics in Medicine*.
- [18] Hutson, A. and **Wilding, G.E.** Maintaining the exchangeability assumption for a two-group permutation test in the non-randomized setting. *To appear in the Journal of Applied Statistics*.
- [19] Chandrasekhar, R. and **Wilding, G.E.\*** A modification of a percentile estimation procedure based on generalized polya urns. *To appear in Communications in Statistics – Theory and Methods*.
- [20] Shan, G., Ma, C., Hutson, A.D., and **Wilding, G.E.\*** Some tests for detecting trends based on the modified Baumgaetner-Weiß-Schindler statistics. *To appear in Computational Statistics and Data Analysis*.
- [21] Cai, X., **Wilding, G.E.\*\***, Hutson, A.D. and Java, J. Estimation of the conditional correlations across continuous variables for heteroscedastic data. *To appear in Advances and Applications in Mathematical Sciences*.
- [22] Chandrasekhar, R., Hutson, A.D., and **Wilding, G.E.\*** A novel approach to testing for bioequivalence based on modeling the within-period dependence structure. *The State University of New York at Buffalo, Department of Biostatistics, Technical Report 1107*. (submitted).
- [23] Vexler, A., Deng, W. and **Wilding, G.E.** Nonparametric Bayes factors based on empirical likelihood ratios. (submitted).
- [24] Shan, G. and **Wilding, G.E.\*\*** Powerful unconditional tests for association in  $2 \times 2$  contingency tables. (submitted).
- [25] Shan, G., Ma, C., Hutson, A.D., and **Wilding, G.E.\*** Randomized two-stage phase II clinical trial designs based on Barnard-type tests. (submitted).
- [26] **Wilding, G.E.\***, Deng, W. and Hutson, A.D. A doubly iterated permutation approach for combining test statistics. (in preparation).
- [27] **Wilding, G.E.\***, Mudholkar, G.S. and Chen, S. Some new tests of sphericity and compound symmetry when dimensionality exceeds sample size. (in preparation).
- [28] Consiglio, J.D., Shan, G. and **Wilding, G.E.\*** Exact tests for trend with binary endpoints using Bartholomew's statistic. (in preparation).
- [29] **Wilding, G.E.\*** et al. Statistical assessment of trends in correlations. (in preparation).
- [30] **Wilding, G.E.\*** et al. On exact tests of hypotheses about intraclass kappas. (in preparation).

[31] Chandrasekhar, R., Hutson, A.D., and **Wilding, G.E.**\* Likelihood-based inferences about the mean area under a longitudinal curve in the presence of left-censored observations. (in preparation).

\*Corresponding author

\*\*Supervising author

## Collaborative (151 total published or accepted)

- [1] Davidson, P.W., Palumbo, D., Meyers, G.J., Cox, C., Shamlaye, C.F., Sloane-Reeves, J., Cernichiari, E., **Wilding, G.E.** and Clarkson, T.W. (2000). Neurodevelopment outcomes of Seychellois children from the pilot cohort at 108 months following prenatal exposure to methylmercury from a maternal fish diet. *Environment Research, Section A*, **84**, 1-11.
- [2] Wyman, A., Lavin, A.L., **Wilding, G.E.** and Gasiewicz, T.A. (2002). 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) does not directly alter the phenotype of maturing B cells in a murine co-culture system. *Toxicology and Applied Pharmacology*, **180**, 164-177.
- [3] DiGiovanni, B.F., Nawoczenski, D.A., Lintal, M.E., Moore, E.A., Murray, J.C., **Wilding, G.E.** and Baumhauer, J.F. (2003). Tissue specific planter fascia stretch exercise enhances outcomes in subjects with chronic, disabling heel pain: a prospective randomized study. *Journal of Bone and Joint Surgery*, **85**, 1270-1277.
- [4] Howington, J.U., Kutz, S.C., **Wilding, G.E.** and Awasthi, D. (2003). Cocaine use as a predictor of outcome in aneurismal subarachnoid hemorrhage. *Journal of Neurosurgery*, **99**, 271-275.
- [5] Huang, L., Cox, C., **Wilding, G.E.**, Meyers, G.J., Davidson, P.W., Shamlaye, C.F., Cernichiari, E., Sloane-Reeves, J. and Clarkson, T.W. (2003). Using measurement error models to assess effects of prenatal and postnatal methylmercury exposure in the Seychelles Child Development Study at age 66-months. *Environmental Research, Section A*, **93**, 115-122.
- [6] Meyers, G.J., Davidson, P.W., Cox, C., Shamlaye, C.F., Palumbo, D., Cernichiari, E., Sloane-Reeves, J., **Wilding, G.E.**, Kost, J., Huang, L. and Clarkson, T.W. (2003). Prenatal methylmercury exposures from ocean fish consumption: 9-year evaluations in the Seychelles Child Development Study. *Lancet*, **361**, 1686-1692.
- [7] Russo, T.A., McFadden, C.D., Carlino-MacDonald, U.B., Beanan, J.M., Olson, R. and **Wilding G.E.** (2003). The siderophore receptor Iron of extraintestinal pathogenic Escherichia coli is a potential vaccine candidate. *Infection and Immunity*, **71**, 7164-7169.
- [8] Cook, R.M., Carvalho-Queiroz, C., **Wilding, G.E.** and LoVerde, P.T. (2004). Nucleic acid vaccination with Schistosoma mansoni antioxidant enzyme cytosolic superoxide dismutase and a structural protein sm-filamin confer protection against the adult worm stage. *Infection and Immunity*, **72**, 6112-6124.
- [9] Davidson, P.W., Meyers, G.J., Shamlaye, C.F., Cox, C. and **Wilding, G.E.** (2004). Prenatal exposure to methylmercury and child development : influence of social factors. *Neurotoxicology and Teratology*, **26**, 553-559.
- [10] Nolan, K.W., Mannato, L. and **Wilding, G.E.** (2004). Integrated models of pediatric physical and occupational therapy: regional practice and related outcomes. *Pediatric Physical Therapy*, **16**, 121-128.
- [11] Stier, W.F., Schneider, R.C., Kampf, S., **Wilding, G.E.** and Haines, S. (2004). Identification of problems in campus recreation programs in North America. *Recreational Sports Journal*, **28**, 31-43.
- [12] Tjaden, K. and **Wilding, G.E.** (2004). Rate and loudness manipulations in dysarthria: acoustic and perceptual findings. *The Journal of Speech, Learning, and Hearing Research*, **47**, 766-783.

- [13] Young, E.C., Davidson, P.W., **Wilding, G.E.**, Meyers, G.J., Shamlaye, C.F., Cox, C., de Boreck, J., Bennett, C.M., Sloane-Reeves, J. and Clarkson, T.W. (2004). Association between prenatal dietary methylmercury exposure and developmental outcomes on acquisition of articulatory-phonologic in children in the republic of Seychelles. *Seychelles Medical and Dental Journal*, **7**, 127-131.
- [14] Mayrose, J, Jehle, D., Hayes, M., Tinnesz, D., Piazza, G. and **Wilding, G.E.** (2005). Influence of the unbelted driver-side rear-seat passenger on driver mortality: “the back seat bullet”. *Academic Emergency Medicine*, **12**, 130-134.
- [15] Nallapareddy, S., **Wilding, G.E.**, Yang, G., Iyer, R. and Javle, M. (2005). Chemoradiation is a tolerable therapy for older adults with esophageal cancer. *Anticancer Research*, **25**, 3055-3060.
- [16] Nolan, K.W., Young, E.C., Baltus-Hebert, L. and **Wilding, G.E.** (2005). Service coordination for children with complex health care needs in an early intervention program. *Infants and Young Children*, **18**, 161-170.
- [17] Platek, M., Krogh, V., Micheli, A., Browne, R., Meneghini, E., Sieri, S., Schünemann, H.J., Pala, V., **Wilding, G.E.**, Berrino, F., and Muti, P. (2005). Serum fructosamine and subsequent breast cancer risk: the ORDET prospective study. *Cancer Epidemiology, Biomarkers, and Prevention*, **14**, 271-274.
- [18] Schneider, R.C., Stier, W.F., Kampf, S., **Wilding, G.E.** and Haines, S. (2005). Reporting structure and job satisfaction of collegiate campus recreation directors. *Recreational Sports Journal*, **29**, 33-41.
- [19] Stier, W.F., Schneider, R.C., Kampf, S., **Wilding, G.E.** and Haines, S. (2005). A survey of campus recreation directors at NIRSA institutions – activities emphasized, students participation patterns, trends and future offerings contemplated. *Recreational Sports Journal*, **29**, 42-58.
- [20] Stier, W.F., Schneider, R.C., Kampf, S., **Wilding, G.E.** and Haines, S. (2005). The financial and facility status of campus recreation programs at NIRSA colleges and universities. *Recreational Sports Journal*, **29**, 127-142.
- [21] Tjaden, K., Rivera, D., **Wilding, G.E.** and Turner, G.S. (2005). Characteristics of the Lax vowel space in Dysarthria. *The Journal of Speech, Language, and Hearing Research*, **48**, 554-566.
- [22] Tjaden, K. and **Wilding, G.E.** (2005). Effect of rate reduction and increased loudness on acoustic measures of anticipatory coarticulation in multiple sclerosis and parkinson disease. *The Journal of Speech, Language, and Hearing Research*, **48**, 261-277. **Winner of the Editor's Award for the Speech Section of JSLHR, 2005.**
- [23] Arora, P., Mustafa, R., Karam, J., Khalil, P., **Wilding, G.E.**, Ranjan, R. and Lohr, J.W. (2006). Care of elderly patients with chronic kidney disease. *International Urology and Nephrology*, **38**, 363-370.
- [24] Baumhauer, J.F., Nawoczenski, D.A., DiGiovanni, B.F. and **Wilding, G.E.** (2006). Reliability and validity of the American Orthopedic Foot and Ankle Society Clinical Rating Scale: A pilot study for the Hallux and lesser toes. *Foot and Ankle International*, **27**, 1014-1019.

- [25] Bernstein, J.M., Hasse, E., Scannapieco, F., Dryja, D., Wolf, J., Briles, D., King, J. and **Wilding, G.E.** (2006). Bacterial interference of penicillin-sensitive and penicillin-resistant streptococcus pneumoniae by streptococcus oralis in an adenoid organ culture: implications in the treatment of recurrent upper respiratory tract infections in children and adults. *Annals of Otolaryngology, Rhinology and Laryngology*, **115**, 350-356.
- [26] Bhatia, V., **Wilding, G.E.**, Dhindsa, G., Bhatia, R., Garg, R., Bonner, A.J., Dhindsa, S. (2006). Poor glycemic control prolongs hospital stay in diabetics admitted with congestive heart failure exacerbation. *Endocrine Practice*, **10**, 467-471.
- [27] Davidson, P.W., Meyers, G.J., Cox, C., **Wilding, G.E.**, Shamlaye, C.F., Huang, L., Cernichiari, E., Sloane-Reeves, J., Palumbo, D. and Clarkson, T.W. (2006). Methylmercury and neurodevelopment: longitudinal analysis of the Seychelles Child Development Cohort. *Neurotoxicology and Teratology*, **28**, 529-535.
- [28] DiGiovanni, B.F., Nawoczenski, D.A., Malay, D.P. Graci, P.A., Williams, T.T., **Wilding, G.E.** and Baumhauer, J.F. (2006). Planter fascia specific stretch results in marked improvement in subjects with chronic planter fasciitis: A prospective clinic trial with two-year follow up. *Journal of Bone and Joint Surgery*, **88**, 1775-1781.
- [29] Fakhri, M.G., **Wilding, G.E.**, Lombardo, J. (2006). Cetuximab-induced hypomagnesemia in patients with colorectal cancer: a single institute experience. *Clinical Colorectal Cancer*, **6**, 152-156.
- [30] Stier, W.F., Schneider, R.C., Kampf, S., **Wilding, G.E.** and Haines, S. (2006). Current hiring practices of campus recreation directors of NIRSA institutions. *Recreational Sports Journal*, **30**, 100-115.
- [31] Schneider, R.C., Stier, W.F., Kampf, S., Haines, S. and **Wilding, G.E.** (2006). Characteristics, attributes, and competencies sought in new hires by campus recreation directors. *Recreational Sports Journal*, **30**, 142-153.
- [32] Agrawal, S., McCarron, E.C., Gibbs, J.F., Nava, H.R., **Wilding, G.E.**, and Rajput, A. (2007). Surgical management and outcome in primary adenocarcinoma of the small bowel. *Annals of Surgical Oncology*, **14**, 2263-2269. **First place winner in the Western New York Chapter American College of Surgeons Annual Essay Contest, 2006.**
- [33] Bir, A., Tan, W., **Wilding, G.E.**, Lombardo, J. and Fakhri, M.G. (2007). 5-Fluorouracil, Leucovorin, and Oxaliplatin plus Bevacizumab in the first line treatment of metastatic colorectal cancer: a single institute study. *Oncology*, **72**, 4-9.
- [34] Brennan, R.M., Genco, R.J., **Wilding, G.E.**, Hovey, K.M., Trevisan, M. and Wactawski-Wende, J. (2007). Bacterial species in subgingival plaque and oral bone loss in postmenopausal women. *Journal of Periodontology*, **78**, 1051-1061.
- [35] Browne, R.W., Koury, S.T., Marion, S., **Wilding, G.E.**, Muti, P. and Trevisan, M. (2007). Accuracy and biological variation of human serum paraoxonase 1 activity and polymorphism (Q192R) by kinetic enzyme assay. *Clinical Chemistry*, **53**, 310-317.

- [36] Chaudhuri, A., Janicke, D., Wilson, M., Ghanim, H., **Wilding, G.E.**, Aljada, A. and Dandona, P. (2007). Effect of modified glucose-insulin-potassium on free fatty acids, matrix metalloproteinase and myoglobin in ST elevation myocardial infarction. *American Journal of Cardiology*, **100**, 1614-1618.
- [37] DiLiberto, F., Baumhauer, J.F., **Wilding, G.E.** and Nawoczenski, D.A. (2007). Alterations in plantar pressure with different walking boot designs. *Foot and Ankle International*, **28**, 55-60.
- [38] Guru, K., **Wilding, G.E.**, Piacente, P., Thompson, J., Deng, W., Kim, H.L., Mohler, J. and O'Leary, K. (2007). Robot-assisted radical cystectomy versus open radical cystectomy: assessment of postoperative pain. *Canadian Journal of Urology*, **14**, 3753-3756.
- [39] Houck, J.R., **Wilding, G.E.**, Gupta, R., De Haven, K.E., Maloney, M. and Duncan, A. (2007). Analysis of EMG patterns of control subjects and subjects with ACL deficiency during an unanticipated walking cut task. *Gait and Posture*, **25**, 628-638.
- [40] Puthillath, A., Bullard-Dunn, K., Rajput, A., Smith, J., Yang, G., **Wilding, G.E.**, Tan, W., Gupta, B. and Fakih, M.G. (2007). Safety and efficacy of upfront chemotherapy in unresected metastatic colorectal cancer. *Clinical Colorectal Cancer*, **6**, 710-715.
- [41] Schneider, R.C., Stier, W.F., Kampf, S., **Wilding, G.E.** and Haines, S. (2007). Perceived problems in campus recreation programs in North America. *Recreational Sports Journal*, **31**, 51-60.
- [42] Brennan-Calanan, R.M., Genco, R.J., **Wilding, G.E.**, Hovey, K.M., Trevisan, M. and Wactawski-Wende, J. (2008). Osteoporosis and oral infection: Independent risk factors for oral bone loss. *Journal of Dental Research*, **87**, 323-327.
- [43] Buitrago, S., Martin, T.E., Tetens-Woodring, J., Belicha-Villanueva, A. and **Wilding, G.E.** (2008). Safety and efficacy of various combinations of injectable anesthetics in BALB/c mice. *Journal of the American Association for Laboratory Animal Science*, **47**, 11-17.
- [44] Butt, Z.M., Perlmutter, A.E., Piacente, P.M., **Wilding, G.E.**, Tan, W., Kim, H.L., Mohler, J.L. and Guru, K.A. (2008). Impact of body mass index on robot assisted radical cystectomy. *Journal of Society of Laparoendoscopic Surgeons*, **12**, 241-245.
- [45] Chadha, M.K., Levea, C.M., Mashtare, T., **Wilding, G.E.**, Javle, M.M. and Nwogu, C.E. (2008). Cytokeratin staining to detect residual disease in patients undergoing neoadjuvant chemoradiation followed by esophagectomy for locally advanced esophageal cancer. *Internet Journal of Oncology*, **5**.
- [46] Chirumamilla, A.P., Wilson, M.F., **Wilding, G.E.**, Chandrasekhar, R., and Ashraf, H. (2008). Outcome of renal insufficiency patients undergoing coronary artery bypass graft surgery. *Cardiology*, **111**, 23-29.
- [47] Gottlieb, R., Litwin, A., Gupta, B., Taylor, J., Raczky, C., Mashtare, T., **Wilding, G.E.** and Fakih, M. (2008). Qualitative radiologic assessment of tumor response: does it measure up? *Clinical Imaging*, **32**, 136-140.
- [48] Guru, K., Sternberg, K., **Wilding, G.E.**, Tan, W., Mohler, J. and Kim, H.L. (2008). The lymph node yield during robot-assisted radical cystectomy. *British Journal of Urology*, **102**, 231-234.

- [49] Kuo, B., McCallum, R.W., Koch, K.L., Sitrin, M.D., Wo, J.M., Chey, W.D., Hasler, W.L., Lackner, J.M., Katz, L.A., Semler, J.R., **Wilding, G.E.** and Parkman, H.P. (2008). Comparison of gastric emptying of a nondigestible capsule to a radio-labeled meal in healthy and gastroparetic subjects. *Alimentary Pharmacology and Therapeutics*, **27**, 186-196.
- [50] Javle, M., Pande, A., Iyer, R., Yang, G., LeVe, C., **Wilding, G.E.**, Black, J., Nava, H. and Nwogu, C. (2008). Pilot study of gefitinib, oxaliplatin, and radiotherapy for esophageal adenocarcinoma: Tissue effect predicts clinical response. *American Journal of Clinical Oncology*, **31**, 329-334.
- [51] Jenkins, L.C., Nogueira, M., **Wilding, G.E.**, Tan, W., Kim, H.L., Mohler, J.L. Guru, K.A. (2008). Median lobe in robot-assisted radical prostatectomy: Evaluation and management. *Journal of Urology*, **71**, 810-813.
- [52] Lo Bue-Estes, C., Willer, B., Burton, H., Leddy J.J., **Wilding, G.E.** and Horvath, P.J. (2008). Effect of short-term exercise to exhaustion on cognitive function in women. *Perceptual and Motor Skills*, **107**, 933-945.
- [53] Pande, R., Sunga, A., LeVe, C., **Wilding, G.E.**, Bshara, W., Reid, M. and Fakih, M.G. (2008). Significance of signet-ring cells in patient with colorectal cancer. *Diseases of the Colon and Rectum*, **51**, 50-55.
- [54] Patel, M., Ailawadhi, S., Hernandez-Ilizaliturri, F. and **Wilding, G.E.** (2008). Vascular endothelial growth factor polymorphisms in early-stage non-small-cell lung cancer. *Journal of Clinical Oncology*, **26**, 3289-3290.
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- [121] Baker, J., **Wilding, G.E.**, Chey, W.D., and Hasler, W.L. (2012). Gastrocolonic response activity after meal ingestion in health vs. constipation: Rigorous quantification in relation to colon transit and associated IBS in a large cohort. *Gastroenterology*, **142**, S308.
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## **Oral Presentations**

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Robustness properties of the Pitman-Morgan test and a robust alternative. Joint Statistical Meeting, Indianapolis, Indiana, August 2000.

On two consistent tests of independence with applications to gamma goodness-of-fit. Eastern North American Region/International Biometric Society, Arlington, Virginia, March 2002.

On two consistent tests of bivariate independence and some applications. Buffalo-Niagara Chapter of the American Statistical Association invited talk, September 2003.

## **Graduate Student Committees**

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### **Chair/Primary Mentor – Doctoral**

Xueya Cai, Ph.D. in Biostatistics, 2008

Wei Deng, Ph.D. in Biostatistics, 2011

Rameela Chandrasekhar, Ph.D. in Biostatistics, 2011

Guogen Shan, Ph.D. in Biostatistics, 2011

William Brady, Ph.D. in Biostatistics (present)

Joseph Consiglio, Ph.D. in Biostatistics (present)

### **Chair/Primary Mentor – Masters**

Xueya Cai, M.A. in Biostatistics, 2006

Resmi Gupta, M.A. in Biostatistics, 2007

Wei Deng, M.A. in Biostatistics, 2007

Christopher Purdy, M.A. in Biostatistics, 2007

Ryan Danison, M.A. in Biostatistics, 2008

Hsin-Fang Li, M.A. in Biostatistics, 2009

Kristopher Attwood, M.A. in Biostatistics, 2009

Guogen Shan, M.A. in Biostatistics, 2009

David Cavanaugh, M.A. in Biostatistics, 2010

Hui Chen, M.A. in Biostatistics, 2010

Ning Ma, M.A. in Biostatistics, 2010

Daniel Hatch, M.A. in Biostatistics, 2011

Danning Huang, M.A. in Biostatistics, 2011

Joseph Consiglio, M.A. in Biostatistics, 2012

**Committee member – Doctoral**

Renee Brennan, Ph.D. in Epidemiology, 2006

Young-ju Pak, Ph.D. in Biostatistics, 2007

Kobby Owusu Asubonteng, Ph.D. in Biostatistics, 2009

Terry Mashtare, Ph.D. in Biostatistics, 2009

Dongliang Wang, Ph.D. in Biostatistics, 2010

Gabrielle Foley, Ph.D. in Epidemiology (present)

Rachael Darr, Ph.D. in Exercise Science (present)

Kristopher Attwood, Ph.D. in Biostatistics (present)

Jennifer Frustino, Ph.D. in Cancer Prevention (present)

**Committee member – Masters**

Abu Rahman, M.A. in Biostatistics, 2007

Jon Dare, M.A. in Biostatistics, 2008

Vincent Girardi, M.A. in Biostatistics, 2008

Aruna Priya, M.A. in Biostatistics, 2009

Somee Jeong, M.A. in Biostatistics, 2009

Shuling Liu, M.A. in Biostatistics, 2009

Su Qian, M.A. in Biostatistics, 2010

Lu Wang, M.A. in Biostatistics, 2010

Tanushree Prasad, M.A. in Biostatistics, 2010

## **University Committees**

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Department of Biostatistics departmental representation on the School of Public Health and Health Professions Faculty Assembly/University Faculty Senate (2003-2004)

Senior Member of the Graduate Faculty (2003-present)

Member of the Department of Biostatistics associate professor faculty search committee (2004)

Member of the Department of Biostatistics research assistant professor faculty search committee (2006, 2007, 2008)

Chair of the Richard N. Schmidt Student Travel Award Committee (2006-present)

Member of the Department of Biostatistics Masters comprehensive exam committee (2005-present)

Member of the Department of Biostatistics admissions committee (2008-present)

Chair of the Department of Biostatistics curriculum committee (2008-present)

Member of the Department of Biostatistics advisory committee for the MPH Biostatistics concentration (2009-present)

School of Public Health and Health Professions Outstanding Teacher of the Year Selection Committee (2010)

Member of the School of Public Health and Health Promotion and Tenure Committee (2010-2012)

## **Scientific Review/Advisory Committees**

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Member of the Roswell Park Cancer Institute Data Safety Monitoring Board (DSMB) (2005-present)

Member of the Roswell Park Cancer Institute Scientific Review Committee (SRC) (2006-present)

Member of the Roswell Park Cancer Institute SRC Executive Committee (2009-present)

Member of the Roswell Park Cancer Institute Alliance Foundation Scientific Advisory Committee (2006-present)

Member of the Roswell Park Cancer Institute Information Technology Advisory Board (2005-2007)

Member of the Roswell Park Cancer Institute Clinical Research Services Advisory Committee (2007-present)

Member of the Product Advisory Board for the SmartPill Corporation (2006-present)

Member of the Industry Advisory Board for AHRM Inc. (2008-present)

Member of Bioinformatics Resource Advisory Committee (2010-present)

Member of the Roswell Park Cancer Institute Cancer Center Support Grant (CCSG) Steering Committee (2010-present)

Member of Roswell Park Cancer Institute Cancer Shared Resource Director's meeting (2010-present)

Member of the Roswell Park Cancer Institute Internal Review Board (IRB) (2005-2007)

Member of Internal Advisory Board for the Roswell Park Cancer Institute Ovarian Cancer SPORE (2011)

### **Professional Affiliation**

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Member of the American Statistical Association (1998-present)

Member of the Eastern North American Region/International Biometric Society (2002-present)

Cancer center support grant member, non-aligned member, Roswell Park Cancer Institute (2005-present)

### **Professional Activities**

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Served as expert witness

Journal reviewer for Communications in Statistics, Theory and Methods

Journal reviewer for Lifetime Data Analysis

Journal reviewer for Statistics in Medicine

Journal reviewer for Computational Statistics and Data Analysis

Journal reviewer for the Journal of Clinical Oncology

Journal reviewer for the Journal of Statistical Planning and Inference

## Grant Activity/Other Support

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### Ongoing Research Support

P01 CA077739-06, James Mohler, PI NIH \$231,326 Prostate Cancer: Transition to Androgen Independence - Core B Immunoanalysis and Tumor Management. Renewal of a core that serves two primary functions to the three projects: Core B is involved in all aspects of clinical specimen and prostate cancer xenograft management and Core B processes and stores the invaluable prostate biopsy specimens obtained from men with advanced prostate cancer prior to and at regular intervals after beginning androgen deprivation therapy. Role: Biostatistician (UB-PI through subcontract)	07/26/10-03/31/15	5%
P30 CA16056-34, Donald Trump, PI Cancer Center Support Grant – Biostatistical Core NIH/NCI \$302,364 The CCSG assists RPCI by providing support for the research infrastructure, such as program leaders, center administration, shared resources and services, and developmental funds for new initiatives. Role: Co-Investigator and Director of the Biostatistics Core (UB-PI through subcontract)	05/01/08-04/30/13	40%
2R01 DC004689-06A2, Kris Tjaden, PI NIH-NIDCD \$337,790 Therapeutic Approaches to Dysarthria: Acoustic and Perceptual Correlates This project aims to study how behavioral therapy techniques for dysarthria secondary to Parkinson's disease and Multiple Sclerosis impact segmental and suprasegmental acoustic measures of speech as well as the relationship to speech intelligibility. Role: Statistician	07/1/07-06/30/12	5%
R01 CA98156-08, Gollnick (PI) NIH/NCI \$207,632 Photodynamic Therapy (PDT) and Tumor Immunity The overall goal of this renewal is to understand the mechanisms by which PDT enhances tumor cell immunogenicity with the long-term goal of developing clinical PDT protocols that enhance anti-tumor immunity and combat secondary disease. Role: Biostatistician (UB-PI through subcontract)	12/01/02-11/30/13	5%
5P01 CA055791-18, Henderson (PI) NIH/NCI \$1,209,594 The unifying feature of this Program Project remains its long-standing bench to bedside approach: to gain an increased understanding of photodynamic therapy (PDT) mechanisms and to translate it into optimized treatment. The unifying hypothesis is that the full potential of PDT of cancer cannot be realized without a comprehensive understanding of the interaction of the diverse mechanisms of molecular and cellular PDT responses. Role: Biostatistician (UB-PI through subcontract)	04/01/98-01/31/14	16%

W81XWH10-1-1000, Mohler (PI)

09/30/10-09/29/13

10%

Department of Defense

\$145,121

PC094767

Role of Androgen Axis in the Racial Differences of Prostate Cancer Mortality

The study will provide complete analysis of the androgen receptor and androgen-regulated genes and relate it to prostate cancer in a large sample of men to test whether racial differences in prostate cancer

mortality may be due, in part, to racial differences in androgenic stimulation of prostate cancer. Role: Biostatistician (UB-PI through subcontract)

## Completed Research

- 62-2479-01 Heemers (PI) 11/01/10-10/31/11  
RPCI-Alliance  
A Novel Mode of Androgen Action Contributes to Prostate Cancer  
One of the goals of this project is to determine if androgen exposure, in an SFR-dependent manner, induces changes in the PCa cell actin cytoskeleton.  
Role: Biostatistician
- 2 R01 DK060632-06, Black (PI) 09/30/09-8/31/10  
NIH  
Regulation of Cyclin D1 Expression in the Intestine  
The long-term goals of this project are to understand the mechanisms that orchestrate the process of intestinal epithelial renewal under normal conditions, to determine how intestinal cells overcome these controls to produce tumors, and to identify novel targets for prevention and therapy of intestinal cancer.  
Role: Biostatistician (UB-PI through subcontract)
- P01 CA77739-06, Mohler (PI) 04/01/05-09/30/10  
NIH  
Prostate Cancer: Transition to Androgen Independence, Core B: ImmunoAnalysis and Tumor Management  
Renewal of a core that serves two primary functions to the three projects: Core B is involved in all aspects of clinical specimen and prostate cancer xenograft management and Core B processes and stores the invaluable prostate biopsy specimens obtained from men with advanced prostate cancer prior to and at regular intervals after beginning androgen deprivation therapy.  
Role: Biostatistician
- PC-040238, Donald Trump, PI 09/27/06-03/27/10 5%  
DOD \$128,099  
Evaluation of CYP24 as a Target for Enhancing Vitamin D Analogue Activity in Prostate Cancer.  
The overall goal of this grant is to investigate the effect of ketoconazole on calcitriol-mediated antiproliferative activity in prostate cancer patients and in correlative studies on the mechanism of these effects.  
Role: Biostatistician (UB-PI through subcontract)
- 6046-08, Asher Chanan- Khan, PI 10/01/07-9/30/10 5%  
The Leukemia & Lymphoma Society \$180,018  
Targeting the B-CLL Cell and its Microenvironment.  
B-Cell remains incurable with limited treatment options for relapsed/refractory patients. A clinical trial has been initiated to test efficacy and tolerability of a combination to target the B-Cell cell itself (by AT-101, a new Bcl-2 inhibitor) and its microenvironment (by lenalidomide) to improve clinical responses. Goal of studies is to understand the mechanism whereby lenalidomide modulates the B-CLL cell itself and the immune cells in its microenvironment.  
Role: Biostatistician (UB-PI through subcontract)

PC-040238, Donald Trump, PI DOD	\$435,543	09/28/04-09/27/08	5%
<p>Evaluation of CYP24 as a Target for Enhancing Vitamin D Analogue Activity in Prostate Cancer. The overall goal of this grant is to investigate the effect of ketoconazole on calcitriol-mediated antiproliferative activity in prostate cancer patients and in correlative studies on the mechanism of these effects.</p> <p>Role: Biostatistician (UB-PI through subcontract)</p>			
5R21CA121294-02, Khushi Matta, PI NIH	\$86,478	02/01/08 - 01/31/09	3%
<p>An Untested Approach: Biomarkers for Colon Cancer. Since glycosyltransferase (enzymes involved in glycosylation) levels are dysregulated in cancer patients, we propose to identify novel, mucinous biomarkers. In this regard, the conventional strategy of isolating and characterizing mucin glycoproteins is laborious and time consuming. Thus a new approach is proposed for the identification of tumor antigens based on knowledge of glycosyltransferase specificity and related biochemistry.</p> <p>Role: Biostatistician (UB-PI through subcontract)</p>			
R21 CA102391-01A2, Jean Brown, PI NIH	\$332,768	08/01/05-07/31/08	5%
<p>Response to Multivitamins/Minerals During Cancer Therapy. The major goals of this project are to study the role of multivitamins and minerals during cancer therapy.</p> <p>Role: Co-Investigator</p>			
R21 CA112914-01, Donald Trump, PI NIH	\$192,859	04/01/05-03/31/08	5%
<p>Evaluation of CYP24 as a Target for Enhancing Vitamin D Activity in Cancer: Preclinical and Clinical Studies. Goal primarily with the trial proposed is to determine the safe dose of calcitriol (oral) used with ketoconazole/dex and to explore whether the concomitant administration of ketoconazole + calcitriol may enhance apparent oral bioavailability and reduce inter-patient variation in systemic exposure.</p> <p>Role: Biostatistician (UB-PI through subcontract)</p>			
R21 CA101326-02, Youcef Rustum, PI NCCN	\$222,500	09/22/03-08/31/06	5%
<p>Irinotecan in Combination with Celecoxib: A phase I Study. The goal is to evaluate the role of Celecoxib, a cyclooxygenase inhibitor, as a selective modulator of the antitumor efficacy and toxicity of Irinotecan, a topoisomerase I poison in patients with advanced malignancies.</p> <p>Role: Sr. Clinical Biostatistician (UB-PI through subcontract)</p>			
RG-02-0645, Jeff Houck, PI Whitaker Foundation	\$143,915	09/01/04-12/31/06	2%
<p>Associations of Motor Control Strategies with Function of Subjects that are ACL Deficient during Expected and Unexpected Cut Tasks. The long term goal of this project is to rigorously evaluate the usefulness of manipulating time dependent unexpected tasks as a means to distinguish motor control responses of copers and non-coper subjects that are ACL deficient.</p> <p>Role: Collaborator (UB-PI through subcontract)</p>			

<p>R01 CA092040-04, Jo Freudenheim, PI NIH Methylation and Oxidation in Breast Cancer This study is an analysis of an existing case-control study to examine two etiological mechanisms, one-carbon metabolism and/or oxidative stress and breast cancer. Role: Co-Investigator</p>	<p>06/01/02-05/31/07 \$484,885</p>	<p>5%</p>
<p>35350, Frank Mendel, PI National Football League Effects of Electrical Stimulation on Time to Recovery Following Grade I and II Inversion Ankle Sprains in Intercollegiate and Professional Athletes. The purposes of this proposed study are to determine whether aggressive application of high voltage pulsed current (HVPC), used as an adjunct to standard therapy for acute grade I-II inversion and high ankle sprains, affects: 1) time to recovery, 2) time to hop on injured foot 90% of distance hopped on uninjured limb, and 3-4) edema formation or pain. Role: Co-Investigator</p>	<p>07/01/05-12/31/06 \$125,000</p>	<p>5%</p>
<p>R305L030065, William E. Pelham, Jr., PI Institute of Education Sciences School-Wide Academic and Behavioral Competencies Program The major goal of this project is to evaluate the effects of the School-Wide Academic and Behavioral Competencies (ABC) Program provided over a three-year period on children's social and behavioral development. Role: Consultant</p>	<p>08/25/03-08/24/07 \$1,098,552</p>	<p>5%</p>
<p>R01 MH062946-03S1A1, William E. Pelham, Jr., PI NIMH ADHD Treatment: Comparative and Combined Dosage Effects The major goals of this project are to study the relative effects of and interactions between doses of behavioral and pharmacological treatments for ADHD by evaluating their separate and combined effects in a controlled summer program setting. Role: Consultant</p>	<p>07/15/01-06/30/05 \$192,877</p>	<p>5%</p>
<p>DAMD01-10340, James Mohler, PI U.S. Army Medical Research Prevention of Development of Recurrent Growth of Prostate Cancer. If the critical events in the life of the cancer that allows it to grow without androgen could be learned, these events could be targeted in order to prevent the development of growth without androgen or even kill these cells directly. Role: Biostatistician (UB-PI through subcontract)</p>	<p>02/01/02-01/31/07 \$545,453</p>	<p>1%</p>
<p>Roswell Park Cancer Institute (subcontract) Variety of statistical work with an emphasis on design of clinical studies.</p>	<p>07/01/04-02/28/05</p>	<p>50%</p>