

James Robert Hussey

**6457 Eastshore Road
Columbia, SC 29206
Cell: (803) 315 - 0945
Work: (803) 777 - 3268**

Education

Ph.D., Statistics, Virginia Polytechnic Institute and State University, 1983.

M.S., Statistics, Virginia Polytechnic Institute and State University, 1980.

B.A., Mathematics and Psychology, University of Maine, 1978.

Professional Experience

- August 2004 - Present Clinical Associate Professor, Department of Epidemiology and Biostatistics, Arnold School of Public Health, University of South Carolina. Graduate Director for Biostatistics August 2005 – December 2012. Interim Department Chair July 2012 – November 2012. Named Department Chair December 2012.
- March 1997 - August 2004 Research Associate Professor, Department of Epidemiology and Biostatistics, Arnold School of Public Health, University of South Carolina. Updated distance education version of introductory biostatistics course. Continued teaching and committee activities. Involved as biostatistician on several grants. Chair of Department Exam Committee
- Sept. 1990 - March 1997 Director, Health Science Computing Lab, School of Public Health, Arnold School of Public Health, University of South Carolina. Managed staff and graduate students in operation of computing facility, in addition to duties given below.
- Aug. 1988 - March 1997 Research Assistant Professor, Department of Epidemiology and Biostatistics, Arnold School of Public Health, University of South Carolina. Taught graduate courses in introductory and intermediate biostatistics, experimental design, and matrix applications. Served on various academic, administrative, thesis and dissertation committees.
- Apr. 1988 - July 1988 Teaching Consultant, University of Southern Maine. Taught inferential/engineering statistics classes at National Semiconductor Corporation, for the Continuing Education Division of USM.
- Sept. 1986 - Nov. 1987 Statistician, Fairchild Semiconductor Corporation, South Portland, Maine. Served as statistical consultant in South Portland facility, as well as consultant to questions involving statistical process control coordinator for Fairchild facilities throughout the United States.
- Jan. 1985 - July 1986 Visiting Assistant Professor, Department of Statistics, University of South Carolina. Taught graduate and undergraduate introductory statistics sequences, undergraduate mathematical statistics and engineering statistics, and graduate regression and response surface methodology courses.

Honors

Inducted into Delta Omega, 2004.

James A. Keith Excellence in Teaching Award, 1992 & 2008. Presented annually to one faculty member in the Arnold School of Public Health.

Masters Committees Chaired

Sarah Lashley (2010) “Disability Adjusted Life Years in South Carolina”

Mike Smith (2008) “Analyzing Survival Data in the Presence of Competing Risks within the Framework of the Case-Cohort Study Design”

Yanping Teng (2006) “An Evaluation of Splines in Logistic Regression”

Deborah Hurley (2003) “An Evaluation of Splines in Linear Regression”

Margaret Ehlers (2003) “Assessment of Covariance Selection Strategies with Repeated Measures Data”

Lingyi Song (2002) “Multiple Comparisons in Repeated Measures Designs”

Steve West (1996) “Evaluation of Multiple Comparison Procedures for Proportions”

Chris Colangelo (1995) “Evaluation of the Wilcox Method for Estimating Birth Weight Distribution Parameters for a Given Population”

Recent Courses Taught

BIOS 700 Introduction to Biostatistics

Introductory biostatistics course for students outside of Epidemiology and Biostatistics. Topics include descriptive statistics, probability, basic distributions, and inference through simple linear regression and one-way ANOVA. Latest textbook: *Biostatistics: An Applied Introduction for the Public Health Practitioner* by Bush

BIOS J700 Introduction to Biostatistics (distance education version)

Same content as BIOS 700, but delivered through a combination of video streaming and/or DVD, along with broadcast question-and-answer sessions, and Blackboard. Latest textbook: *Principles of Biostatistics* (2nd ed.) by Pagano & Gauvreau.

BIOS 701 Concepts and Methods of Biostatistics

Introductory biostatistics course primarily for Epidemiology and Biostatistics majors. Topics are similar to those in BIOS 700, but are covered in more depth. Other topics more commonly seen by those working in epidemiology are also introduced. Latest textbook: *Principles of Biostatistics* (2nd ed.) by Pagano & Gauvreau.

BIOS 757 Intermediate Biometrics

Second semester course primarily covering linear models. Topics include simple linear regression, multiple regression, one-way and two-way ANOVA, analysis of covariance, and logistic regression. Latest textbook: *Applied Regression Analysis and Other Multivariable Methods* (4th ed.) by Kleinbaum, Kupper, Muller, & Nizam.

BIOS J757 Intermediate Biometrics (distance education version)

Same content as BIOS 757, but delivered through Adobe Connect, broadcast question-and-answer sessions, and Blackboard. Same textbook as BIOS 757.

BIOS 758 Advanced Biometrics

Third semester, matrix-based linear models course. Topics include quadratic forms, regression diagnostics, collinearity, mixed models, multilevel models, repeated measures, generalized linear models, and simulation. Latest textbook: *A First Course in the Theory of Linear Statistical Models* (2nd ed.) by Myers & Milton.

BIOS 794A Matrix Applications to Public Health Analyses

This was a one-credit, three week “Maymester” course designed to show how several statistical techniques could be expressed in matrix notation. Most of the material has since been incorporated into the beginning of BIOS 758.

BIOS 765 (previously BIOS 840) Research Designs in the Biomedical Sciences

A course in experimental design and analysis, with focus on health-related issues. Topics include blinding, validity, power and sample size selection, Latin Squares, complete and incomplete block designs, factorials, nested designs, and clinical trials. Latest textbook: *Design and Analysis of Experiments* (7th ed.) by Montgomery.

STAT 518 Nonparametric Methods

An introductory nonparametric statistics course, taken by both undergraduate and graduate students. Topics include several basic tests (runs, sign, signed rank, rank sum, Kruskal-Wallis, Kolmogorov-Smirnov, Friedman), relative efficiency, Spearman’s correlation, Kendall’s τ , and nonparametric regression. Latest textbook: *Nonparametric Statistical Methods* (2nd ed.) by Hollander & Wolfe.

STAT J518 Nonparametric Methods (distance education version)

Same content as STAT 518, but delivered through live broadcast or videostreaming. Same textbook as STAT 518.

STAT 750 Response Surface Methodology

Topics include first and second order designs, factorial designs, fractional factorials, steepest ascent, canonical analysis, and ridge analysis. Latest textbook: *Response Surface Methodology* by Myers & Montgomery.

MCR 700 Clinical Biostatistics

Introductory 3-hour clinical biostatistics course for students at MUSC. Topics include descriptive statistics, measures of association, diagnostic tests, basic distributions, and inference including basic tests for mean(s) and proportion(s), linear models and survival analysis. Latest textbook: *Principles of Biostatistics* (2nd ed.) by Pagano & Gauvreau.

Publications and Abstracts

Nitin Shivappa, Susan E. Steck, James R. Hussey, Yunsheng Ma, and James R. Hebert. Inflammatory potential of diet and all-cause, cardiovascular, and cancer mortality in National Health and Nutrition Examination Survey III Study. *European Journal of Nutrition*, pp 1-10, first online December 7, 2015.

Margaret C. Miller, Holly C. Pope, Terry A. Wolfer, Joshua R. Mann, James R. Hussey, Natalie Colabianchi, and Robert E. McKeown. Psychometric Analysis of a Scale to Assess Particularized Trust in Families and Community- and Congregation-based Groups. *Journal of Community Psychology*, 2015, Vol. 43, No. 2, 227–243.

TH Cummings, JW Hardin, JR Hussey, AC McLain, KJ Bennett, and GM Wingood. Modeling Heaped Count Data. *Stata Journal*, 2015, No. 2, 457-479.

Gregory M. Dominick, Ruth P. Saunders, Daniela B. Friedman, James R. Hussey, and Ken W. Watkins. Factors associated with provision of instrumental social support for physical activity in a foster parent population. *Children and Youth Services Review*, May 2015, Volume 52, 1–7.

Chao-Kai Chang, Sudha Xirasagar, Brian Chen, James R. Hussey, I-Jong Wang, Jen-Chieh Chen, and Ie-Bin Lian. Provider Behavior Under Global Budgeting and Policy Responses: An Observational Study on Eye Care Services in Taiwan. *Inquiry: The Journal of Health Care Organization, Provision, and Financing*, 2015, 1-10.

Banda, J. A., Wilcox, S., Colabianchi, N., Hooker, S. P., Kaczynski, A. T. and Hussey, J. The Associations Between Park Environments and Park Use in Southern US Communities. *The Journal of Rural Health*, 2014, 30: 369–378.

Nitin Shivappa, Susan E. Steck, Thomas G. Hurley, James R. Hussey, Yunsheng Ma, Ira S. Ockene, Fred Tabung, and James R. Hebert. A population-based dietary inflammatory index predicts levels of C-reactive protein in the Seasonal Variation of Blood Cholesterol Study (SEASONS). *Public Health Nutrition*. 2014 Aug;17(8):1825-33.

Nitin Shivappa, Susan E Steck, Thomas G Hurley, James R Hussey, and James R Hébert. Designing and developing a literature-derived, population-based dietary inflammatory index. *Public Health Nutrition*. 2014 Aug;17(8):1689-96.

Cavicchia PP, Liu J, Adams SA, Steck SE, Hussey JR, Daguise VG, and Hebert JR. Proportion of Gestational Diabetes Mellitus Attributable to Overweight and Obesity Among Non-Hispanic Black, Non-Hispanic White, and Hispanic Women in South Carolina. *Maternal and Child Health Journal*, October 2014, Volume 18, Issue 8, pp 1919-1926.

Meghan Baruth, Sara Wilcox, Ruth Saunders, Steven Hooker, James Hussey, and Steven Blair. Perceived Environmental Church Support and Physical Activity Among Black Church Members. *Health Education Behavior*, Volume 40, Number 6, December 2013, pp. 712-720.

Y. Omar Whiteside, Anwar T. Merchant, James Hussey, Swann Arp Adams, Wayne A. Duffus. Occurrence of New Sexually Transmitted Diseases in Males After HIV Diagnosis. *AIDS and Behavior*, Volume 17, Issue 3, March 2013, pp. 1176-1184.

Cavicchia PP, Adams SA, Steck SE, Hussey JR, Liu J, Daguise VG, Hebert JR. Racial disparities in colorectal cancer incidence by type 2 diabetes mellitus status. *Cancer Causes Control*, Volume 24, Number 2, February 2013, pp. 277-285.

Charles Feigley, Jamil Khan, Deborah Salzberg, James Hussey, Hubert Attaway, Lisa Steed, Michael Schmidt, & Harold Michels. Experimental tests of copper components in ventilation systems for microbial control. *HVAC&R Research*, Volume 19, Issue 1, January 2013, pp. 53-62.

He H, Zhang H, Maity A, Zou Y, Hussey J, Karmaus W. Power of a reproducing kernel-based method for testing the joint effect of a set of single-nucleotide polymorphisms. *Genetica*, 2012 Dec;140(10-12):421-7.

Dominick, Gregory M.; Friedman, Daniela B.; Saunders, Ruth P.; Hussey, Jim R.; Watkins, Ken W. Factors Associated With Physical Activity Literacy Among Foster Parents. *American Journal of Health Behavior*, Volume 36, Number 2, March 2012, pp. 179-192.

Liu, Rui PhD; Sui, Xuemei MD; Laditka, James N. PhD; Church, Timothy S. MD, PhD; Colabianchi, Natalie PhD; Hussey, Jim PhD; Blair, Steven N. Cardiorespiratory Fitness as a Predictor of Dementia Mortality in Men and Women. *Medicine & Science in Sports and Exercise*, Volume 44, Number 2, Feb. 2012, pp. 253-259.

Ogbuanu C, Glover S, Probst J, Hussey J, Liu J. Balancing work and family: effect of employment characteristics on breastfeeding. *Journal of Human Lactation*, Volume 27, Number 3, 2011, pp. 225-238.

Chinelo Ogbuanu, Sandra Glover, Janice Probst, Jihong Liu, and James Hussey. The Effect of Maternity Leave Length and Time of Return to Work on Breastfeeding. *Pediatrics*, Volume 127, Number 6, 2011, pp. e1414-1427.

Tavakoli, A., Scharer, K., Hussey, J. Compare Imputation and no Imputation to Examine Mediator Effect for Social Support of Mothers of Mentally Ill Children. SAS Global Forum, Las Vegas, Nevada. April 5, 2011.

Gerhild Ullmann, Ph.D., Harriet G. Williams, Ph.D., James Hussey, Ph.D., J. Larry Durstine, Ph.D., and Bruce A. McClenaghan, P.E.D., P.T. Effects of Feldenkrais Exercises on Balance, Mobility, Balance Confidence, and Gait Performance in Community-Dwelling Adults Age 65 and Older. *The Journal of Alternative and Complementary Medicine*, Volume 16, Number 1, 2010, pp. 1-9.

Maslow AL, Xuemei S, Colabianchi N, Hussey J, Blair SN. Muscular Strength and Incident Hypertension in Normotensive and Prehypertensive Men. *Medicine & Science in Sports and Exercise*, 2010; 42(2):288-295

Kristina E. Weis, PhD, MPH; Angela D. Liese, PhD, MPH; James Hussey, PhD; James J. Gibson, MD, MPH; & Wayne A. Duffus, MD, PhD. Associations of Rural Residence With Timing of HIV Diagnosis and Stage of Disease at Diagnosis, South Carolina 2001-2005. *The Journal of Rural Health* 26 (2010), pp. 105-112.

Nkansah-Amankra, Stephen; Dhawain, Ashish; Hussey, James; and Luchok, Kathryn. Maternal Social Support and Neighborhood Income Inequality as Predictors of Low Birth Weight and Preterm Birth Outcome Disparities: Analysis of South Carolina Pregnancy Risk Assessment and Monitoring System Survey, 2000-2003. *Maternal and Child Health Journal*, 2010, 14(5): 774-785.

Nkansah-Amankra S, Luchok KJ, HUSSEY JR, Watkins K, Liu X. Effects of Maternal Stress on Low Birth Weight and Preterm Birth Outcomes Across Neighborhoods of South Carolina, 2000-2003. *Maternal and Child Health Journal*, 2010, 14(2):215-226.

Meghan Baruth, Sara Wilcox, Steve Blair, Steve Hooker, Jim Hussey, and Ruth Saunders. Psychosocial mediators of a faith-based physical activity intervention: implications and lessons learned from null findings. *Health Education Research*, 2010, 25(4): 645-655.

Shelly-Ann K. Bowen, PhD, Ruth P. Saunders, PhD, Donna L. Richter, EdD, Jim Hussey, PhD, Keith Elder, PhD, and Lisa Lindley, DrPH. Assessing Levels of Adaptation During Implementation of Evidence-Based Interventions: Introducing the Rogers–Rütten Framework. *Health Education & Behavior*, 2010, 37(6): 815-830.

R. E. Clarke, T. H. Davis, R. L. Foote, P. L. Claus, J. C. Buckey, S. H. Okuno, A. K. Fariss, S. Pohar and J. R. Hussey. Hyperbaric oxygen as a radiation sensitizer for locally advanced squamous cell carcinoma of the head and neck: A phase I dose-escalation study. *Journal of Clinical Oncology*, 2010 *ASCO Annual Meeting Proceedings*, Vol 28, No 15_suppl

Williams, Harriet G. , Ullmann, Gerhild , Gossard, Joyce L. , Hussey, James R. , Brotherton, Sandra S. , Laditka, James and Cornman, Carol. Functional Status Assessment for Community Long-Term Care: Preliminary Observations. *Home Health Care Services Quarterly*, 28: 4, 2009, pp. 151-171.

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Philip P. Cavicchia, Susan E. Steck, Thomas G. Hurley, James R. Hussey, Yunsheng Ma, Ira S. Ockene, and James R. Hébert. A New Dietary Inflammatory Index Predicts Interval Changes in Serum High-Sensitivity C-Reactive Protein. *The Journal of Nutrition*. Published online October 28, 2009.

Liv Haselbach, James Hussey, Charles E. Feigley, James R. Hébert, Duvel W. White, Andrew Lawson. Airborne Transmission via HVAC of Acute Respiratory Infections in Military Facilities? Review of a Basic Training Cohort Study. *Journal of Green Building*, 2009 Winter;4(1):114-20.

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Eungyoung Lee, Jamil A. Khan, Charles E. Feigley, Mallik R. Ahmed and James R. Hussey. An investigation of air inlet types in mixing ventilation. *Building and Environment*, 2007: 42, 3, 1089-1098.

Eungyoung Lee, Charles E. Feigley, Jamil Khan, and James Hussey. The Effect of Worker's Location, Orientation, and Activity on Exposure. *Journal of Occupational and Environmental Hygiene*, 2007; 4, 572–582.

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Lee, E., Feigley, C., Khan, J., Hussey, J. The Effect of Temperature Differences on The Distribution of an Airborne Contaminant in an Experimental Room. *Annals of Occupational Hygiene*, 2006; 50: 527-537.

Hurley, D., Hussey, J., McKeown, R., Addy, C. An Evaluation of Splines in Linear Regression. SUGI (SAS Users' Group International) 31. San Francisco, California. March 27, 2006.

Huisman Jezowski, S., Estrada, B., Scharer, K., Moneyham, L., Hussey, J., Shugart, M., Tavakoli, A., Bowers, L. Using technology in research: Web based social support for mothers of children with mental illness. 52nd Annual Program Meeting of CSWE (Council on Social Work Education) and the 9th University of South Carolina Technology Conference. Chicago, Illinois. February 17, 2006.

Zhang, J., McKeown, R.E., Hussey, J.R., Thompson, S.J., Woods, J.R., Ainsworth, B.E., Low HDL Cholesterol is Associated with Suicide Attempt among Young Healthy Women: the Third National Health and Nutrition Examination Survey. *Journal of Affective Disorders*, 2005; 89(1-3):25-33

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- Zhang J, McKeown RE, Hussey JR, Thompson SJ, Woods JR. Gender Differences in Risk Factors for Attempted Suicide among Young Adults: Findings from the Third National Health and Nutrition Examination Survey. *Annals of Epidemiology*, 2005 Feb;15(2):167-74.
- Brotherton S.S., Williams H.G., Gossard J.L., Hussey J.R., McClenaghan B.A., Eleazer P. Are measures employed in the assessment of balance useful for detecting differences among groups that vary by age and disease state? *Journal of Geriatric Physical Therapy*, 2005; 28(1):14-9.
- Anderson-Loftin, W., Barnett, S., Bunn, P., Sullivan, P., Hussey, J., Tavakoli, A. Soul Food Light: Culturally Competent Diabetes Education. *The Diabetes Educator*, 2005; 31(4):555-63.
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