

# Kristen McQuerry

## Curriculum Vitae

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## Education

- 2012–2016 **Ph.D. Statistics**, *The University of Kentucky*, Lexington, KY.  
2009–2012 **M.S. Statistics**, *The University of Kentucky*, Lexington, KY.  
2004–2005 **M.A. Secondary Math Education**, *The University of Kentucky*, Lexington, KY.  
2000–2004 **B.A. Secondary Math Education**, *The University of Kentucky*, Lexington, KY.  
Minor: Theatre

## Ph.D. Dissertation

- Title *Statistical Methods for Handling Intentional Inaccurate Responders*  
Adviser Heather Bush, Ph.D.  
Description This dissertation develops statistical methodology for handling intentional inaccurate responders in self-report data.  
Graduation August 2016

## Experience

### Statistical Consulting and Related Experience

- 2016–Present **Applied Statistics Laboratory Director**, UNIVERSITY OF KENTUCKY, Lexington, KY.  
  - Assist with study design and data analysis for investigators from numerous fields of study.
  - Train statistics graduate students in consulting.
  - Oversee statistical work of 20 research assistants and staff.
- 2013–2016 **Applied Statistics Laboratory Project Manager**, UNIVERSITY OF KENTUCKY, Lexington, KY.  
  - Developed tracking system that stores requests, consultation forms, and hours worked per project over time.
  - Delegated projects to ASL staff and research assistants.
  - Ran weekly summary of hours worked to ensure projects were completed in a timely manner.
- 2012–2016 **Statistics Consultant - Research Assistant**, UNIVERSITY OF KENTUCKY, Lexington, KY.  
  - Worked with over 100 faculty members and graduate students in research areas in the College of Agriculture, Food, & Environment and College of Medicine.
  - Assisted with study design, statistical analysis, SAS programming, reviewing and writing publications.

- 2011 **Data Management**, UNIVERSITY OF KENTUCKY, Lexington, KY.
- Using SAS, cleaned data collected from surveys during years 2006-2009 for the Kentucky Women's Health Registry.

### Teaching Experience

- 2010–2011 **Primary Instructor**, UNIVERSITY OF KENTUCKY, Lexington, KY.
- Developed syllabus, lectured biweekly, including weekly lab practicum, and administered all grades for courses STA 200 and STA 291.
- 2009–2010 **Teaching Assistant**, UNIVERSITY OF KENTUCKY, Lexington, KY.
- Collaborated on curriculum, met with students upon request, and graded all written work, including final exam papers for course STA 200.
- 2005–2009 **Secondary Education Teacher**, TATES CREEK HIGH SCHOOL, Lexington, KY.
- Instructed students in Probability and Statistics, Algebra I, Part 2, Geometry, Advance Algebra II, Algebra I, Advance Geometry, IB Math Studies.
  - Prepared and executed lesson plans, helped students with homework questions outside of class time.
  - ESS Math Teacher (Extended School Session) from August 2005 - May 2007.

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## Publications

### Refereed Journals

#### Accepted Publications.

- Dolecheck, K.; Silvia, W.; Heersche, G.; Wood, C.L.; **McQuerry, K.J.**; Bewley, J.M. "A comparison of timed artificial insemination and automated activity monitoring with hormone intervention in 3 commercial dairy herds." *Journal of Dairy Science* 99(2), 2016, pp. 1506-1514.
- Janes, J. G.; Garrett, K. S.; **McQuerry, K. J.**; Waddell, S.; Voor, M. J.; Reed, S. M.; Williams, N. M.; MacLeod, J. N. "Cervical Vertebral Lesions in Equine Stenotic Myelopathy." *Veterinary pathology* (2015):0300985815593127.
- Black, R.A.; Taraba, J.L.; Day, G.B.; Damasceno, F.A.; Wood, C.L.; **McQuerry, K.J.**; Bewley, J.M. "The relationship between compost bedded pack performance, management, and bacterial counts." *Journal of Dairy Science* 97(5), 2014, pp. 2669-2679.
- Smith, A.C.; Wood, C.L.; **McQuerry, K.J.**; Bewley, J.M. "Effect of a Tea Tree Oil and Organic Acid Footbath Solution on Digital Dermatitis in Dairy Cows." *Journal of Dairy Science* 97(4), 2014, pp. 4041-4046.
- Janes, J.G.; Garrett, K.S.; **McQuerry, K.J.**; Pease, A.P.; Williams, N.M.; Reed, S.M.; and McLeod, J.N. "Comparison of MRI to standing cervical radiographs for evaluation of vertebral canal stenosis in equine Cervical Stenotic Myelopathy." *Equine Veterinary Journal*, 46(6), 2013, pp. 681-686.
- Liang, D.; Wood, C.L.; **McQuerry, K.J.**; Ray, D.L.; Clark, J.M.; Bewley, J.M. "Influence of breed, milk production, season, and ambient temperature on dairy cow reticulorumem temperature." *Journal of Dairy Science* 96(8), 2013, pp. 5072-5081.
- Sterrett, A.E.; Wood, C.L.; **McQuerry, K.J.**; Bewley, J.M. "Changes in teat-end hyperkeratosis after installation of an individual quarter pulsation milking system." *Journal of Dairy Science* 96(6), 2013, pp. 4041-4046.

### Submitted Publications.

- Ali, A.; Pasciu, V.; **McQuerry, K.J.**; Bomboi, G.; Floris, B. "A comparison of the Cryoprotective Effect of Different Species' Egg Yolks on the Cryosurvival of Spermatozoa and Fertility in vitro." Small Ruminant Research, 2016.
- Kennedy, R.; **McQuerry, K.J.** "Clinical Outcomes in Patients with Diabetes Mellitus using a Medically Supervised Commercial Weight Reduction Program Compared to Standard Care in an Endocrine Specialty Clinic." Diabetes, Obesity and Metabolism, 2015.
- Wadsworth, B.A.; Stone, A.E.; Wood, C.L.; **McQuerry, K.J.**; Clark, J.D.; Ray, D.L. "Characterization of milk yield, lying and rumination behavior, locomotion, and lesions between two different freestall bases." Applied Animal Behaviour Science, 2015.
- Thompson, A.; Wood, C.L.; **McQuerry, K.J.**; Bewley, J.M. "Effects of a beta-ionone and limonene footbath solution and copper sulfate on digital dermatitis in dairy cows." Journal of Dairy Science, 2015.

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## Abstracts

### Accepted Abstracts.

- Chavan,N.R.; Ashford K.; **McQuerry, K.J.**; McCubbin, A.; Barnett, J.; O'Brien, J. (2015). Smoking cessation in pregnancy: Impact of the bio-inflammatory milieu. 35th Annual Meeting Society of Maternal Fetal Medicine. San Diego, CA.
- Chavan,N.R.; Ashford K.; Meints, L.; **McQuerry, K.J.**; McCubbin, A.; Barnett, J.; O'Brien, J. (2015). Changes in inflammatory cytokines with sleep disturbances in pregnancy. 35th Annual Meeting Society of Maternal Fetal Medicine. San Diego, CA.
- Chavan,N.R.; Ashford K.; **McQuerry, K.J.**; McCubbin, A.; Barnett, J.; O'Brien, J. (2015). Weight gain in excess of IOM recommendations: The relationship to preterm birth and systemic inflammatory profile. 35th Annual Meeting Society of Maternal Fetal Medicine. San Diego, CA.
- Ashford, K.; O'Brien, J; **McQuerry, K.J.**; Barnett, J.; McCubbin, A.; Ferguson, J.; Ebersole, J. (2015). Cytokine concentrations and their associations with preterm birth: Comparison between serum and cervicovaginal measurements. 35th Annual Meeting Society of Maternal Fetal Medicine. San Diego, CA.
- Ashford, K.; Barnett, J.; McCubbin, A.; **McQuerry, K.J.**; Curry, T.; O'Brien, J. (2015). Tobacco use alters pregnancy biomarkers reflecting tissue function. 35th Annual Meeting Society of Maternal Fetal Medicine. San Diego, CA.

## Presentations & Posters

### Presentations/Posters.

- Song, K.D., Lee, J.T., **McQuerry, K.J.**, Villasante-Tezanos, A.G., Ayoob, A., 2016. "Splenic Trauma: Sending the Right Message" Society of Abdominal Radiology Scientific Program. Waikoloa, Hawaii.
- Jaromczyk, J.W., Moore, N., **McQuerry, K.J.** 2014. "Why What and How to publish in the Journal of the Kentucky Academy of Science." Centennial Meeting of the Kentucky Academy of Science. Lexington, KY.
- **McQuerry, K.J.** 2013. "Using the Applied Statistics Laboratory and an Introduction to Experimental Design." University of Kentucky Plant and Soil Sciences Seminar Series. Lexington, KY.
- Wadsworth, B.A.; Sterrett, A.E.; Wood, C.L.; **McQuerry, K.J.**; Clark, J.D.; Ray, D.L.; Bewley, J.M. 2013. "Characterization of lying time, milk yield, and rumination time with different freestall bases." Abstract 278. American Dairy Science Association Annual Meeting. Indianapolis, IN.
- Sterrett, A.E., Wood, C.L., **McQuerry, K.J.**, Bewley, J.M.. 2012. "Potential utility of a parlor-based individual quarter milking system." Page 23 in Proceedings of the 38th of the International Committee for Animal Recording (ICAR) Session. Cork, Ireland.

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## Service at the University of Kentucky

- 2005–2011 University of Kentucky Majorette Coordinator with the University of Kentucky Wildcat Marching Band
- 2002–2004 College Alcohol Use Student Educator
- 2003–2004 Standardized Patient at the University of Kentucky Clinic
- 2002–2004 Member of Omicron Delta Kappa
- 2001–2002 Resident Assistant
- 2000–2004 Member of the University of Kentucky Sweetheart Majorettes

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## Awards

- 2011 College of Arts & Sciences Certificate for Outstanding Teaching, University of Kentucky
- 2011 R.L Anderson Prize for Best Teaching Assistant, University of Kentucky Statistics Department
- 2004–2005 Otis A. Singletary Fellowship for Graduate Study in Education, University of Kentucky
- 2000–2004 University of Kentucky Academic Merit Scholarship
- 2004 National Dean's List
- 2003 Wildcat Marching Band Honor Bandsman, University of Kentucky
- 2002 Miss College Majorettes of the Year, Drum Majorettes of America
- 2001 German National Honors Delta Phi Alpha, University of Kentucky

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## Professional Development

- 2011–Present CITI Certified
- 2006,2008 International Baccalaureate Math Studies Certified Levels 1 and 2
- 2005–2007 Mathematics Instructional Learning Community (MILC) Grant

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## Professional Memberships

- 2010–Present American Statistical Association
- 2004–2009 National Council of Teacher of Mathematics
- 2004–2009 Kentucky Council of Teachers of Mathematics

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## Computer/Software Skills

- Intermediate SPSS, Mac and PC environments
- Advanced SAS, R, REDCap,  $\LaTeX$ , Microsoft Office