

Michael J. Mahometa, Ph.D.

Learner, Teacher, Applied Statistical Consultant

CONTACT INFORMATION

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EDUCATION

Doctor of Philosophy in Experimental Psychology
The University of Texas at Austin

May 2006

PROFESSIONAL EXPERIENCE

Far Harbor, LLC

Senior Research Scientist and X-team Member

2021 – Current

Coordinate with the Principal to provide varied client deliverables, ranging from research design, background research, and analytic methodology. Generate client reports on a variety of topics and areas, including public policy, health behaviors, and educational assessment. Work with the analytic team to evaluate third party processes for client approval. Complete time sensitive client requests for ad-hoc deliverables including reports and data preparation. Interface with and manage team members to provide the highest level of skill for client requests.

The University of Texas at Austin

Department of Statistics and Data Science

Director of Consulting Services and Professional Education

2018 – 2021

Provided professional-level statistical consulting to faculty, staff and students at UT Austin, including free and contract consulting and software short course instruction. Supervised and reviewed the work of staff consultants to ensure that professional-level service is provided to UT faculty, students and staff. Prioritized and assessed tasks, monitored progress, provided feedback, ensured employees were appropriately trained to perform their assignments, and prepared annual performance evaluations. Coordinated the design and delivery of special consulting services within the Department, including access to web-based tutorials, lab and server-based software programs, and short courses. Directed and coordinated the delivery of the Department's annual Summer Statistics Institute, providing hundreds of attendees 12 hours of instruction over 4 days. Promoted faculty collaborations and assisted with the consulting component of the Graduate Fellows Program. Developed and employed metrics to assess the impact of these programs and prepare annual reports.

Led a team to develop and deploy the first fully online Master's of Data Science for UT Austin. Navigated the degree proposal process within the Graduate School, while adhering to external deadlines for launch. Worked with faculty (Tenure Track and Non-Tenure Track) to discover new curriculum, implement best practices for online delivery, and discover new tools for student interaction.

Lead Consultant / Manager of Consulting Services

2012 – 2018

Led team of three consultants to serve The University of Texas at Austin academic community, including free Statistical Consulting services and Contract Consulting services. Interfaced with outside UT entities to offer Contract Consulting services. Assigned Contract Consulting projects as needed to best serve the expertise and timeline of the client. Responsible for identifying client deliverables, cost, and timeline of client projects including data cleaning, analysis,

and reporting. Coordinated on-time delivery of goals. Lead decision process on what Statistical Short Courses to offer the UT community. Selected and trained new employees on operating procedures and office expectations.

Lead Instructor for edX MOOC

2014 – Current

Led team of two to three in the implementation of Massively Open Online Course (MOOC)—Foundations of Data Analysis through edX. Coordinated live office hours, Twitter, and Facebook announcements and student engagement. Created weekly class structure and met on-time video deliverables along with unique Lab content including direct video feedback. Responsible for meeting student success.

Founding Member, Faculty Lead, and Instructor of Record for OnRamps Statistics

2012 – 2020

Member of team and decision maker for content, delivery timeline, and additional video content for OnRamps Statistics—a statewide initiative dual-enrollment high school/University statistics course supported by OnRamps at The University of Texas at Austin, and currently used by over 30 statewide high schools. Responsible for current and future direction, content consideration, and student academic decisions. Interfaces with High School Partner Instructors to understand pain points of the course for high school students. Appointed to the Instructor of Record role in 2017.

Founding Member of SDS302 Course Redesign

2010 – 2012

Co-leader in redesign of SDS302, based on student needs, not current “typical” course timeline. Integrated Pre-Lab and Lab for applied learning with real world data sets. Integrated scaffolding for all weekly instruction (Reading, Lecture, Pre-Lab, Lab, Homework) to better integrate student knowledge.

Instructor (brick and mortar)

2006 – Current

Primary instructor for undergraduate and graduate courses at The University of Texas at Austin, including but not limited to:

Applied Regression Analysis: Developed second course in statistical analysis designed for undergraduates, focusing on regression analysis with a hands-on approach; created all instructional material including hands on labs; created in course R package with functions used in class to aid analysis; created final project format for students to apply skills learned.

Statistical Consulting Seminar: Consulting lead for graduate course in statistical consulting (3hrs/wk); lead discussion of consulting topics such as “model knowledge,” “client skills,” and “professionalism;” created discussion questions and material for all classes; gave feedback on video-taped mock consulting sessions for students.

Introductory Statistics: Sole teacher for one of several similar sections within the Department of Statistics and Data Sciences; lead coordinator for course material and class topics for the Introductory classes; created material for teaching, including handouts, quizzes, lab exercises, and exams; simulated actual data for student use in exams; managed materials; created screencasts of lectures; evaluated student performance.

RESEARCH
EXPERIENCE

The University of Texas at Austin

Department of Statistics and Data Science

Statistical Consultant (Free Consulting Services)

2006 – Current

Serves 400+ clients per year from undergraduates to faculty at The University of Texas at Austin. Consultations primarily through in-person contact, but also leveraged phone, email, and Skype to meet with clients spending time abroad. Consult on study design, data collection and cleaning, analysis, and reporting.

Statistical Consultant (Contract Consulting Services) 2006 – Current
Work involved one-on-one or group interactions using various communication modes to discuss research design, planning, results, reporting, and possible manuscript edits. This role ranged from pure analyst to collaborator, resulting in publication and community deliverable. A selection of projects is listed below:

- 2018 (ongoing), Statistical Consultant, Investigating the impact of wholistic treatment for children and adults who stutter on Quality of Life and Communication Competency, PI Courtney Byrd, **Moody College of Commutation (Lang Stuttering Institute)**, The University of Texas at Austin, TX
- 2018, Statistical Consultant, Investigating patient postoperative improvement after adult spinal deformity correction, PI Matthew J. Geck, M.D. and Andrea Leyton-Mage, B.A., **Dell Medical School**, The University of Texas at Austin, TX
- 2018, Statistical Consultant, Graduate Student Climate Survey outcome report, PI Assistant Dean John Dalton, **Office of Graduate Studies**, The University of Texas at Austin, TX
- 2017, Statistical Consultant, Investigating patient outcomes for hip replacement surgery, and surgeon performance improvement, PI Tyler D. Goldberg, M.D., **Dell Medical School**, The University of Texas at Austin, TX
- 2016, Statistical Consultant, Investigating patient outcomes for cesarean section using salpingectomy, PI Olivia Lara, M.D., **Dell Medical School**, The University of Texas at Austin, TX
- 2015, Statistical Consultant, Graduate Student Housing Survey and Report, PI Assistant Dean John Dalton, **Office of Graduate Studies**, The University of Texas at Austin, TX
- 2014, Statistical Consultant, Investigating graduate student successful graduations for the College of Liberal Arts, PI Lauren Bairnsfather, **College of Liberal Arts**, The University of Texas at Austin, TX
- 2014, Statistical Consultant, Investigating Texas outpatient restoration programs, PI Michele Guzmán, **Hogg Foundation for Mental Health**, The University of Texas at Austin, TX
- 2014, Statistical Consultant, Socially Responsible Leadership Scale report, PI CeCe Ridder & Stephanie Hinojosa, **McCombs Office of Student Life**, The University of Texas at Austin, TX
- 2013, Statistical Consultant, Investigating web 2.0 technologies among middle school students, PI Joan Hughes, **College of Education**, The University of Texas at Austin, TX

- 2012, Statistical Consultant, Investigating psychosocial and behavioral health among low-income women postpartum, PI Dr. Loraine Walker, **School of Nursing**, The University of Texas at Austin, TX
- 2011, Statistical Consultant, Investigating the association between contrasting levels of depression and light and heavier smoking, PI Dr. Charles Holahan, **College of Liberal Arts**, The University of Texas at Austin, TX
- 2011, Statistical Consultant, Using Multiple Communication Technologies To Capture Attention During an Emergency, PI Dr. Keri Stephens, **Moody College of Communication**, The University of Texas at Austin, TX
- 2011, Statistical Consultant, Latent Structure of Descriptors of Pain Sensation: A Dual Hierarchical Model, PI Dr. Ephrem Fernandez, **College of Fine and Liberal Arts**, Department of Psychology, The University of Texas San Antonio, TX
- 2010, Statistical Consultant, Texas Demonstration to Maintain Independence and Employment, PI Tomas Bohman, **Addiction Research Institute Center for Social Work Research** - University of Texas at Austin, TX
- 2010, Statistical Consultant, Reciprocal Support in Lung Cancer Patients and Their Partners, PI Marci Gleason, **College of Natural Sciences**, The University of Texas at Austin, TX
- 2010, Statistical Consultant, Pain, functioning, and health-related quality of life in adults who undergo bone marrow aspiration and biopsy, PI Dr. Scott Strassels, **College of Pharmacy**, The University of Texas at Austin, TX
- 2009, Statistical Consultant, Catalan speakers' perception of word stress in unaccented Contexts, PI Dr. Marta Ortega-Llebaria, **College of Liberal Arts**, The University of Texas at Austin, TX
- 2009, Statistical Consultant, Combating childhood obesity through a model of response to intervention in school-based physical education programs, PI Dr. Xiaofen Keating, **College of Education**, The University of Texas at Austin, TX
- 2008, Statistical Consultant, Examining the mechanisms of insulin induced facilitation of memory in Alzheimer's disease with proton magnetic resonance spectroscopy, PI Dr. Andreana Haley, **College of Liberal Arts**, The University of Texas at Austin, TX
- 2008, Statistical Consultant, Children with late language emergence: Effects of Maternal Education and Language Use, PI Dr. Celeste Domsch, **College of Health Professions**, Department of Communication Disorders, Texas State University, TX
- 2007, Statistical Consultant, Validation and Evaluation of a Portable Body Scanner, PI Dr. Freeland-Graves, **College of Natural Sciences**, The University of Texas at Austin, TX

CURRENT & PAST
MEMBERSHIPS

American Statistical Association
 American Psychological Association
 Society for the Teaching of Psychology (APA Division 2)
 Faculty for Undergraduate Neuroscience

HONORS &
AWARDS

Teaching Excellence Award 2019
The College of Natural Sciences, The University of Texas at Austin, TX

Top Paper Award 2014
Human Communication & Technology Division (HCTD) of the National Communication Association for *Organizational communication in emergencies: Using multiple channels and sources to combat noise and capture attention*. Work completed with Keri Stevens, Moody College of Communication, The University of Texas at Austin, TX

Dean's Staff Excellence Award 2010
The College of Natural Sciences, The University of Texas at Austin, TX

PUBLICATIONS

Leyton-Mange, A., Truumees, E., Bozic, K. J., Singh, D., Stokes, J. K., Mahometa, M. J., & Geck, M. J. (2020). Preoperative patient-reported outcome score thresholds predict the likelihood of reaching MCID with surgical correction of adult spinal deformity, *Spine Deformity*, 9, 207–219.

Hughes, J. E., Read, M. F., Jones, S., & Mahometa, M. J. (2015). Predicting Middle School Students' Use of Web 2.0 Technologies Out of School Using Home and School Technological Variables, *Journal of Research on Technology in Education*, 47(4), 211-228.

Stephens, K., Barrett, A. K., & Mahometa, M. J. (2013). This is Not a Test: Using Multiple Communication Technologies To Capture Attention During an Emergency. *Human Communication Research*, 39(2), 230-251.

Walker, L. O., Sterling, B. S., Guy, S., & Mahometa, M. J. (2013). Cumulative poor psychosocial and behavioral health among low-income women at 6 weeks postpartum. *Nursing research*, 62(4), 233-242.

Domjan, M., Mahometa, M. J., & Matthews, R. N. (2012). Learning in intimate connections: conditioned fertility and its role in sexual competition. *Socioaffective Neuroscience & Psychology*, 2, 17333.

Fernandez, E., Vargas, R., Mahometa, M.J., & Ramamurthy, S. (2012). Latent Structure of Descriptors of Pain Sensation: A Dual Hierarchical Model. *The Journal of Pain*, 13(6), 532-536.

Pepper, M. R., Freeland-Graves, J. H., Yu, W., Stanforth, P.R., Cahill, J. M., Mahometa, M. J., Xu, B. (2010). Validation of a 3-dimensional laser body scanner for assessment of waist and hip circumference. *Journal of the American College of Nutrition*, 29(3), 179-188.

Mahometa, M. J. & Domjan, M. (2005). Classical conditioning increases reproductive success in Japanese quail (*Coturnix japonica*). *Animal Behaviour*, 69, 983-989.

Domjan, M., Mahometa, M. J., & Mills, A. D. (2003). Relative contributions of the male and the female to sexual behavior and reproductive success in the domesticated quail (*Coturnix japonica*). *Journal of Comparative Psychology*, 117, 391-399.

PRESENTATIONS

Stephens, K., Barrett, A. K., & Mahometa, M. J. (2011 November). *This is Not a Test: Using Multiple Communication Technologies To Capture Attention During an Emergency*. Paper presentation at the National Communication Association in New Orleans, LA.

Mahometa, M. J. & Domjan, M. (2003, November). *Copulatory anticipation and changes in reproductive behavior and fertility in Japanese quail (Coturnix japonica)*. Poster presentation at the Society for the Scientific Study of Sexuality in San Antonio, TX.

Mahometa, M. J. & Domjan, M. (2003, April). *Effect of CS-US intervals on copulatory behavior and fertility rate in Japanese Quail*. Paper presentation at the South Western Psychological Association in New Orleans, LA.

Mahometa, M. J. & Domjan, M. (2002, September). *The use of Carbon Dioxide as an aversive stimulus to Japanese quail (Coturnix japonica)*. Paper presentation at the Neuroscience Area Seminar, Department of Psychology, Austin, TX.

Mahometa, M. J. & Domjan, M. (2002, April). *Aversive context conditioning in Japanese quail (Coturnix japonica) using carbon dioxide as the unconditioned stimulus*. Paper presentation at the South Western Psychological Association in Corpus Christi, TX.

Mahometa, M. J. & Domjan, M. (2001, October). *Relationships between reproductive behavior and fertility*. Paper presentation at the Neuroscience Area Seminar, Department of Psychology, Austin, TX.

Mahometa, M. J. & Domjan, M. (2001, April). *The effect of copulatory anticipation on reproductive behavior and fertility*. Paper presentation at the South Western Psychological Association in Dallas, TX.

Mahometa, M. J. & Domjan, M. (2000, April). *Relationships between reproductive behavior and fertility*. Paper presentation at the South Western Psychological Association in Houston, TX.

Mahometa, M. J. & Domjan, M. (2000, February). *Relationships between reproductive behavior and fertility*. Paper presentation at the 15th Annual University of Scranton Psychology Conference in Scranton, PA.

SOFTWARE
KNOWLEDGE

R and RStudio
RMarkdown
SPSS
SAS
Stata
Tableau
Standard Microsoft Suite (Word, Excel, PowerPoint)