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Summary

Dr. Mehta is a health services researcher and a data scientist with several years of experience in study design, biostatistics and data mining. He is an Associate Professor in the Department of Health Services Administration at the University of Alabama at Birmingham (UAB). He leads the statistical analysis and design core of the UAB/Lakeshore Research Collaborative, a collaboration between UAB School of Health Profession and Lakeshore Foundation, in the area of disability and rehabilitation sciences. His research projects include from pragmatic randomized controlled trials related to telehealth to analysis of large existing datasets. Dr. Mehta's research interest span from clinical, epidemiological and health services related scientific inquiries in topics related to cardiometabolic conditions, disability, and rehabilitation.

Dr. Mehta is a co-investigator, site PI, and lead statistician to several research studies funded by a variety of funding agencies such as NIH, NIDILRR and PCORI. Dr. Mehta has a strong publication record with over 40 peer-reviewed articles including several first-author articles. He has published in highly competitive journals such as JAMA, New England Journal of Medicine, and Obesity Reviews. He has been involved in leading and serving on several national society committees such as serving on the Finance and Advocacy Committees of The Obesity Society. He is also serving as the Chair of the Faculty Senate Research Committee, which is responsible for reviewing matters pertaining to research university-wide, and is engaged in activities that can improve the research environment at the University.

Education

- Ph.D. Biostatistics June 2013
Department of Biostatistics
University of Alabama at Birmingham
- MS Electrical Engineering Dec 2014
Department of Electrical and Computer Engineering
University of Alabama at Birmingham
- Bachelor of Engineering in Computer Engineering Dec 2001
Mumbai University

Professional Appointments

Appointments at the University of Alabama at Birmingham

- Director of Biostatistics and Data Management Core
UAB/Lakeshore Foundation Research Collaborative
School of Health Professions Nov 2017 to Present
- Associate Professor
Department of Health Services Administration
School of Health Professions Oct 2018 to Present
- Assistant Professor
Department of Health Services Administration
School of Health Professions Aug 2015 to Sept 2017
- Tenure Track Assistant Professor
Department of Physical Therapy
School of Health Professions Jul 2013 to Jul 2015
- Assistant Professor
Rehabilitation Sciences Program
School of Health Professions Jul 2013 to Present
- Associate Scientist
Nutrition Obesity Research Center
School of Health Professions Jul 2013 to Present
- Associate Scientist
Diabetes Research Center
School of Health Professions Dec 2013 to Present
- Statistician and Data Scientist
School of Public Health Jan 2005 to Jun 2013
- Graduate Research Assistant
School of Public Health Jan 2003 to Dec 2004
- Database Developer
School of Nursing Jan 2002 to Dec 2002

Scholarship

Peer-Reviewed Publications

1. Upadhyay S, Weech-Maldonado R, Lemak CH, Stephenson A, **Mehta T**, Smith DG. Resource-based view on safety culture's influence on hospital performance: The moderating role of electronic health record implementation. Health Care Manage Rev. 2018 Aug 28. PMID: 30157101.

2. Young HJ, **Mehta T**, Herman C, Wang F, Rimmer JH. The Effects of Movement-to-Music (M2M) and Adapted Yoga on Physical and Psychosocial Outcomes in People with Multiple Sclerosis. *Arch Phys Med Rehabil*. 2018 Aug 6. PMID: 30092206
3. Rimmer JH, Thirumalai M, Young HJ, Pekmezi D, Tracy T, Riser E, **Mehta T**. Rationale and design of the tele-exercise and multiple sclerosis (TEAMS) study: A comparative effectiveness trial between a clinic- and home-based telerehabilitation intervention for adults with multiple sclerosis (MS) living in the deep south. *Contemp Clin Trials*. 2018 Aug;71:186-193. PMID: 29937253.
4. Dickinson SL, Brown AW, **Mehta T**, Heymsfield SB, Ebbeling CB, Ludwig DS, Allison DB. Incorrect analyses were used in "Different enteral nutrition formulas have no effect on glucose homeostasis but on diet-induced thermogenesis in critically ill medical patients: a randomized controlled trial" and corrected analyses are requested. *Eur J Clin Nutr*. 2018 Jun 27. PMID: 29946116.
5. Howell CR, **Mehta T**, Ejima K, Ness KK, Cherrington A, Fontaine KR. Body Composition and Mortality in Mexican American Adults: Results from the National Health and Nutrition Examination Survey. *Obesity (Silver Spring)*. 2018 Aug 1. PMID: 30070038
6. **Mehta T**, Allison DB. How Much Variation in Outcomes Is Too Much in a Center of Excellence for Bariatric Surgery? **JAMA**. 2018 May 8;319(18):1932-1933. PMID: 29801000.
7. Thirumalai M, Rimmer JH, Johnson G, Wilroy J, Young HJ, **Mehta T**, Lai B. TEAMS (Tele-Exercise and Multiple Sclerosis), a Tailored Telerehabilitation mHealth App: Participant-Centered Development and Usability Study. *JMIR Mhealth Uhealth*. 2018 May 24;6(5):e10181. PMID: 29798832
8. Rimmer JH, Herman C, Wingo B, Fontaine KR, **Mehta T**. Methodological and clinical implications of a three-in-one Russian doll design for tracking health trajectories and improving health and function through innovative exercise treatments in adults with disability. *BMC Medical Research Methodology*. *BMC Med Res Methodol*. 2018 Mar 14;18(1):28.
9. Hoenemeyer TW, Kaptchuk TJ, **Mehta T**, Fontaine KR. Open-Label Placebo Treatment for Cancer-Related Fatigue: A Randomized-Controlled Clinical Trial. *Scientific Reports*. 2018; 8:2784.
10. **Mehta T** and Hall A. Socioeconomic Status and Differential Lifetime Costs of Overweight and Obesity: An Application of Microsimulations. *Obesity*. 2017 Sept; 25(9):1470
11. Rimmer JH, Padalabalanarayanan S, Malone LA, **Mehta T**. Fitness facilities still lack accessibility for people with disabilities. *Disability and Health*. 2017 April 10(2):214221.
12. Howell CR, Fontaine K, Ejima K, Ness KK, Cherrington A, and **Mehta T**. Maximum Lifetime Body Mass Index and Mortality in Mexican-American Adults: Results From the National Health and Nutrition Examination Survey III (1988–1994) and 1999–2010. *Prev Chronic Dis*. 2017 Aug; 14:E67. PMID: PMC5566831.
13. Malone LA, Rowland JL, Rogers R, **Mehta T**, Padalabalanarayanan S, Thirumalai M, Rimmer JH. Active Videogaming in Youth with Physical Disability: Gameplay and Enjoyment. *Games Health J*. 2016 Oct 3. PMID: 27696899.

14. **Mehta T**, Pajweski NM, Keith SW, Fontaine KR, Allison DB. Role of a plausible nuisance contributor in the declining obesity-mortality risks over time. *Experimental Gerontology*. 2016 Sep 17. pii: S0531-5565(16)30347-3. doi: 10.1016/j.exger.2016.09.015. PMID: 27144798.
15. George BJ, Beasley MT, Brown AW, Dawson J, Dimova R, Divers J, Goldsby T, Heo M, Kaiser KA, Keith SW, Kim MY, Li P, **Mehta T**, Oakes MJ, Skinner A, Stuart E, Allison DB. Common Scientific and Statistical Errors in Obesity Research. *Obesity*. 2016 April; 24(4): 781-90.
16. Davidson LE, Adams TD, Kim J, Jones JL, Hashibe M, Taylor D, **Mehta T**, McKinlay R, Simper SC, Smith SC, Hunt SC. Association of Patient Age at Gastric Bypass Surgery with Long-term All-cause and Cause-specific mortality. *JAMA Surgery*. 2016 Jul; 151(7):631-7. PMID: 27055061.
17. Adams TD, **Mehta T**, Davidson LE, Hunt SC. All-Cause and Cause-Specific Mortality Associated with Bariatric Surgery: A Review. *Curr Atheroscler Rep*. 2015 Dec; 17(12):74. PMID: 2655056.
18. Eisenberg Y, Rimmer JH, **Mehta T**, Fox MH. Development of a community health inclusion index: an evaluation tool for improving inclusion of people with disabilities in community health initiatives. *BMC Public Health*. 2015 Oct 13; 15:1050.
19. Allison DB, Bassaganya-Riera J, Burlingame B, Brown AW, le Coutre J, Dickson SL, van Eden W, Garssen J, Hontecillas R, Khoo Chor SH, Knorr D, Kussmann M, Magistretti PJ, **Mehta T**, Meule A, Rychlik M, Vogele C. Goals in Nutrition Science 2015-2020. *Frontiers in Nutrition*. 2015 Sept, 26.
20. Wingo BC, **Mehta T**, Qu P, Vogel LC, Rimmer JH. An exploratory study examining clinical measures of adiposity risk for predicting obesity in adolescents with physical disabilities. *American Journal of Physical Medicine and Rehabilitation*. 2015 Aug; 94(8):585-94.
21. **Mehta T** and Allison DB. From Measurement to Analysis Reporting: Grand Challenges in Nutritional Methodology. *Frontiers in Nutrition*. 2014 Jun, 1(6). PMID: 2490856.
22. **Mehta T**, Smith DL Jr, Muhammad J, Casazza K. Impact of weight cycling on morbidity and mortality. *Obesity Reviews*. 2014 Nov; 15(11):870-81. PMID: 24205264.
23. Casazza K, Brown A, Astrup A, Bertz F, Baum C, Bohan Brown M, Dawson J, Durant N, Dutton G, Fields DA, Fontaine KR, Heymsfield S, Levitsky D, **Mehta T**, Menachemi N, Newby P, Pate R, Raynor H, Rolls BJ, Sen B, Smith DL Jr, Thomas D, Wansink B, Allison DB. Weighing the Evidence of Common Beliefs in Obesity Research. *Crit Rev Food Sci Nutr*. 2015 Dec; 55(14):2014-53. PMID: 26272668.
24. **Mehta T**, Fontaine KR, Keith SW, Bangalore SS, PhD, de los Campos G, Bartolucci A, Pajewski NM, Allison, DB. Obesity and Mortality: Are the Risks Declining? Evidence from Eighteen Prospective Studies in the U.S. *Obesity Reviews*. 2014 Aug; 15: 619–629. PMID: 24121970.
25. **Mehta T**, McCubrey R, Pajewski NM, Keith SW, Allison DB, Crespo CJ, Fontaine KR. Does Obesity Associate with Mortality among Hispanic Persons?: Results from the National

Health Interview Survey. *Obesity*. 2013 Jul; 21(7): 1474-7. PMID: PMC4451932.

26. Casazza K, Fontaine KR, Astrup A, Birch L, Brown AW, Brown MM, Durant N, Dutton G, Foster ME, Heymsfield SB, Mclver K, **Mehta T**, Menachemi N, Newby PK, Pate R, Rolls BJ, Sen B, Smith DL Jr, Thomas D, Allison DB. Myths, Legends, and Facts in Obesity. *N Engl J Med*. 2013 Jan; 368:446-54. PMID: PMC3606061.
27. Duarte CW, Willey CD, Zhi D, Cui X, Harris JJ, Vaughan LK, **Mehta T**, McCubrey RO, Khodarev NN, Weichselbaum RR, Gillespie GY. Expression signature of IFN/STAT1 signaling genes predicts poor survival outcome in glioblastoma multiforme in a subtype-specific manner. *PLoS One*. 2012 Jan; 7(1):e29653. PMID: PMC3252343. **Selected by Faculty of 1000(F1000) that places this article in top 2% of published articles in biology and medicine.**
28. Fontaine KR, McCubrey R, **Mehta T**, Pajewski NM, Keith SW, Bangalore SS, Crespo CJ, Allison DB. Body mass index and mortality rate among Hispanic adults: a pooled analysis of multiple epidemiologic data sets. *Int J Obes (Lond)*. 2012 Aug; 36(8):1121-6. [PMCID: PMC3271144]
29. Jarboe J, Anderson J, Duarte C, **Mehta T**, Nowsheen S, Hicks P, Witley A, Rohrbach T, McCubrey R, Chiu S, Burleson T, Bonner J, Gillespie Y, Yang E, Willey C. MARCKS Regulates Growth, Radiation Sensitivity and is a Novel Prognostic Factor for Glioma. *Clinical Cancer Research*. 2012 Jun; 18(11):3030-41 PMID: 22619307.
30. Keith SW, Fontaine KR, Pajewski NM, **Mehta T**, Allison DB. Use of self-reported height and weight biases the body mass index-mortality association. *International Journal of Obesity*. 2011; 35(3): 401-408. PMID: PMC3040787
31. Miller SJ, Jessen WJ, **Mehta T**, Hardiman A, Sites E, Kaiser S, Jegga AG, Li H, Upadhyaya M, Giovannini M, Muir D, Wallace MR, Lopez E, Serra E, Nielsen GP, Lazaro C, Stemmer-Rachamimov A, Page G, Aronow BJ, Ratner N. Integrative genomic analyses of neurofibromatosis tumors identify SOX9 as a biomarker and survival gene. *EMBO Mol Med*. 2009 Jul; 1(4):236-48. PMID: 20049725.
32. Chen L, Page GP, **Mehta T**, Feng R, Cui X. Single nucleotide polymorphisms affect both cis- and trans-eQTLs. *Genomics*. 2009 Jun;93(6):501-8. PMID: 19248827.
33. Feugang JM, Kaya A, Page GP, Chen L, **Mehta T**, Hirani K, Nazareth L, Topper E, Gibbs R, Memili E. Two-stage genome-wide association study identifies integrin beta 5 as having potential role in bull fertility. *BMC Genomics*. 2009; 10:176. PMID: PMC2684547.
34. Guimbellot JS, Erickson SW, **Mehta T**, Wen H, Page GP, Sorscher EJ, Hong JS. Correlation of microRNA levels during hypoxia with predicted target mRNAs through genome-wide microarray analysis. *BMC Med Genomics*. 2009 Mar; 2:15. PMID: PMC2667434.
35. Ioannidis JP, Allison DB, Ball CA, Coulibaly I, Cui X, Culhane AC, Falchi M, Furlanello C, Game L, Jurman G, Mangion J, **Mehta T**, Nitzberg M, Page GP, Petretto E, van Noort V. Repeatability of published microarray gene expression analyses. *Nature Genetics*. 2009 Feb; 41(2):149-55. PMID: 19174838.
36. Srinivasasainagendra V, Page GP, **Mehta T**, Coulibaly I, Loraine AE. CressExpress: a tool

for large-scale mining of expression data from Arabidopsis. *Plant Physiol.* 2008 Jul; 147(3):1004-16. PMID: PMC2442548.

37. Yi N, Shriner D, Banerjee S, **Mehta T**, Pomp D, Yandell BS. An efficient Bayesian model selection approach for interacting quantitative trait loci models with many effects. *Genetics.* 2007 Jul; 176(3):1865-77. PMID: PMC1931520.
38. Falk CT, Finch SJ, Kim W, Mukhopadhyay ND, Gong B, Hinrichs A, Li X, Liu X, Malhotra A, **Mehta T**, Page G, Rao S, Saccone N, Shete S, Yang Y, Yu R, Zhao JH, Zhou X. Data mining of RNA expression and DNA genotype data: presentation group 5 contributions to Genetic Analysis Workshop 15. *Genet Epidemiol.* 2007; 31 Suppl1:S43-50. PMID:18046764.
39. Yandell BS, **Mehta T**, Banerjee S, Shriner D, Venkataraman R, Moon JY, Neely WW, Wu H, von Smith R, Yi N. R/qtlbim: QTL with Bayesian Interval Mapping in experimental crosses. *Bioinformatics.* 2007 Mar; 23(5):641-3. PMID: 17237038.
40. **Mehta T**, Zakharkin SO, Gadbury GL, Allison DB. Epistemological issues in omics and high-dimensional biology: give the people what they want. *Physiol Genomics.* 2006 Dec; 28(1):24-32. PMID: PMC16968808.
41. Wei H, Persson S, **Mehta T**, Srinivasasainagendra V, Chen L, Page GP, Somerville C, Loraine A. Transcriptional coordination of the metabolic network in Arabidopsis. *Plant Physiol.* 2006 Oct; 142(2):762-74. PMID: PMC1586052.
42. Zakharkin SO, Kim K, **Mehta T**, Chen L, Barnes S, Scheirer KE, Parrish RS, Allison DB, Page GP. Sources of variation in Affymetrix microarray experiments. *BMC Bioinformatics.* 2005 Aug; 6:214. PMID: PMC1232851.
43. Trivedi P, Edwards JW, Wang J, Gadbury GL, Srinivasasainagendra V, Zakharkin SO, Kim K, **Mehta T**, Brand JP, Patki A, Page GP, Allison DB. HDBStat!: a platform-independent software suite for statistical analysis of high dimensional biology data. *BMC Bioinformatics.* 2005 Apr; 6:86. PMID: PMC1087834.
44. **Mehta T**, Tanik M, Allison DB. Towards sound epistemological foundations of statistical methods for high-dimensional biology. *Nature Genetics.* 2004 Sep; 36(9):943-7. PMID: 15340433.

Book Chapters

1. Brown A, **Mehta T**, Allison DB (2017). Publication Bias in Science: What is it, Why is it Problematic, and How Can It Be Addressed? In KH Jamieson, DM Kahan, and DA Scheufele (Eds.) *The Oxford Handbook of the Science of Science Communication* (pp. 93-101). New York, NY: Oxford University Press.
2. Page GP, Zakharkin SO, Kim K, **Mehta T**, Chen L, Zhang K (2007). Microarray Analysis. In Ambrosious WT (Ed.) *Topics in Biostatistics* (pp. 409-430). Totowa, NJ: Humana Press. (Also indexed in PubMed with PMID: 18450061).
3. Zakharkin SO, **Mehta T**, Allison DB. Epistemological Foundations of Statistical Methods

for High- Dimensional Biology (2006). In DB Allison, GP Page, MT Beasley, and JW Edwards (Eds.). *DNA Microarrays and Related Genomics Techniques: Design, Analysis, and Interpretation of Experiment* (pp. 77-94). Boca Raton, FL: Chapman & Hall/CRC.

Published Conference Abstracts

1. Young H-J, Herman CL, **Mehta T**, Vitemb AC, Rimmer JH. The Effects of a Rythmic Movement Program on Mobility in Individuals with Multiple Sclerosis. *Archive of Physical Medicine and Rehabilitation*. Volume 98:10. {*Oral Presentation at the American Congress of Rehabilitation Medicine, 2017, Atlanta, GA.*}
2. Wilroy J, **Mehta T**, Pekmezi D, Thirumalai M, Young HJ, Rimmer J. Scale Up Project Evaluating Responsiveness to Home Exercise And Lifestyle Tele-Health (SUPER HEALTH). *Archive of Physical Medicine and Rehabilitation*. Volume 98:10. {*Poster Presentation at the American Congress of Rehabilitation Medicine, 2017, Atlanta, GA.*}
3. Neal W, Young HJ, **Mehta T**, Thirumalai M, Tracy T, Riser E, Rimmer J.. Comparative Effectiveness Trial between a Clinic- and Home-Based Exercise Intervention for Multiple Sclerosis. *Archive of Physical Medicine and Rehabilitation*. Volume 98:10. {*Poster Presentation at the American Congress of Rehabilitation Medicine, 2017, Atlanta, GA.*}
4. Crowe-White KM, Ellis A, Locher J, **Mehta T**, Naik A, Ard J. Relationships between Cardiometabolic Disease Staging and Serum AntiOxidant Capacity in Obese Older Adults. *Journal of the Academy of Nutrition and Dietetics*. 2016, Volume 116, Issue 9, A93.
5. Herman C, Rimmer J, Wingo BC, **Mehta T**. The Birmingham-Lakeshore Aging with Disability Exercise Environment Study (BLADE2S): Methodology. *Archives of Physical Medicine and Rehabilitation*, 2015, Volume 96:10. {*Poster Presentation at the American Congress of Rehabilitation Medicine, 2015, Dallas, TX.*}
6. **Mehta T** and Allison DB. Modeling Obesity Associated Years of Life Lost: A Significance Test to Compare Predictive Accuracies of Non-Nested Models. *The Gerontologist*, 2015 Nov; 55(Suppl_2):461. {*Poster Presentation at the Gerontological Society of America Annual Meeting*}
7. Allison D, **Mehta T**, Keith S. Compared to What? Understanding Apparent Secular Changes in the Relation between Body Mass Index (BMI) and Mortality Rate. The Obesity Society Annual Meeting, Phoenix, AZ, 2008. Abstract published in *Obesity*; 16(S1): S328. {*Poster Presentation*}.
8. Robinson JR, Bangalore P, Wang J, **Mehta T**. Powering Statistical Genetics with the Grid: Using GridWay to automate R-based Workflows. Abstract published in MG '08 Proceedings of the 15th ACM Mardi Gras conference : From lightweight mash-ups to lambda grids: Understanding the spectrum of distributed computing requirements, applications, tools, infrastructures, interoperability, and the incremental adoption of key capabilities. Article No. 40. Presentation at the Association of Computing Machinery.
9. **Mehta T**, Keith SW, Allison David. Effect of Change in BMI Distribution on the Association between BMI and Mortality Rate: A Plausible Partial Explanation for Decrease in Deleterious Effects of Overweight over Calendar Time? The Obesity Society Annual Meeting, Phoenix, AZ, 2008. Abstract published in *Obesity*;16(S1): S329. {*Poster Presentation*}.

Invited Presentations (*: student/trainee)

1. Davis M, Larwin KH, **Mehta T. (Invited Speaker)**. Alternative Methods to Traditional Clinical Trials. Rehabilitation Engineering Research Center Directors' Meeting July 2018, Washington DC.
2. Zengul F, Thirumalai M, Ozaydin B, **Mehta T**. Rigor, Reproducibility, And Transparency (R2T): Discovering Convergence Solutions From Present to Design a Better Future. Society for Design and Process Science (SDPS) Nov 2017, Birmingham, AL {Workshop}.
3. *Allman P, *Wilkinson L, *Naik A, Judd S, **Mehta T**. Do Lipid-Lowering Medications Modify the Obesity-Mortality Association? ObesityWeek, Oct 2017, Washington, DC {*Allman P awarded as one of the finalist in Population Health and Epidemiology Student Poster Competition*}.
4. *Naik A, Judd S, **Mehta T**. Have the Obesity-Associated Mortality Associations in African Americans Changed Over Calendar Time? Poster Presentation at ObesityWeek, Nov 2016, New Orleans, LA.
5. *Ejima K and **Mehta T**. Comparison of Predictive Ability of Mortality between Weight History and Cardiometabolic Medication History. Poster Presentation at ObesityWeek, Nov 2016, New Orleans, LA.
6. *Howell C, Ness K, Cheong J, **Mehta T**, Fontaine KR. Body Composition and Mortality in Hispanic Adults. Poster Presentation at ObesityWeek, Nov 2016, New Orleans, LA. {*Howell C selected for one of the 2016 Diversity Tour Poster Awards*}.
7. **Mehta, T. (Invited Speaker)**. Center on Aging Colloquium Series, University of Victoria, Victoria, BC. 2016. Title: The Birmingham Lakeshore Aging with Disability Exercise and Environment Study.
8. **Mehta T** and Allison DB, Modeling Obesity Associated Years of Life Lost: A Significance Test to Compare Predictive Accuracies of Non-Nested Models.
 - a. Poster Presentation at National Conference on Health Statistics, 2015, Washington D.C.
 - b. Poster Presentation at the Gerontological Society of America Annual Meeting, 2015 (see Published Abstract #6)
9. **Mehta T** and Semenova V. Has the Relationship Between Obesity and Disability Changed from 1999 to 2013. National Conference on Health Statistics, 2015, Washington D.C.
10. **Mehta T**, Keith S, Pajewski NM, Fontaine KR, Allison DB. Obesity and Mortality: Are the Risks Declining? Evidence from a Meta-Analysis of Eighteen Prospective Studies in U.S.
 - a. Oral Presentation at the Invited Session on Integrative Data Analyses at the Gerontology Society of America Annual Meeting 2014, Washington DC.
 - b. Poster presentation at the National Conference on Health Statistics, 2012, Washington D.C. {*Awarded one of the top 3 Student Poster Awards*}.
 - c. Oral Presentation at The Joint Statistical Meeting, San Diego, USA.
 - d. Oral presentation at The Obesity Society Annual Meeting, 2011, Phoenix, AZ.
11. **Mehta T**, Allison DB, Fontaine KR. Is Overweight and Obesity Associated with Elevated Mortality in Hispanic Adults? A Pooled Analysis of Multiple Hispanic Data Sets. 2012, San

Antonio Texas.

12. **Mehta T**, Keith S, Pajewski NM, Allison DB. Plausible 'Nuisance' Contributor to Decreasing Deleterious Association of Overweight and Obese on Mortality Rate over Calendar Time. Poster Presentation at the Joint Statistical Meeting, 2010, Vancouver, Canada.
13. **Mehta T**, Allison DB, Page G. Determining Stability of Taxonomic Coefficients for Time Series Microarray Data. Poster Presentation at the Computational Genomics organized by the Institute of Genomic Research, 2004, Washington DC.
14. **Mehta T** and Page G. Applications of Data Mining and Machine Learning to Microarrays. Poster Presentation at the Data mining and Machine Learning Workshop at the Statistical and Applied Mathematical Sciences Institute, 2003, Raleigh, North Carolina.

Grants

Extramural

Active/Awarded (Amounts listed are the approximate total award amounts received to UAB)

1. *Title: Scale-Up of an Innovative, Evidence-Based Movement 2-Music (M2M) Intervention for Adults with Physical/Mobility Disability.* \$4,153,259 Oct 2018 to Sept 2023
Sponsor: National Institute on Disability, Independent Living, and Rehabilitation Research (PI: Rimmer)
Role: Co-Investigator
2. *Title: The Lakeshore-UAB Healthcare to Health Promotion MENTOR Project* \$1,000,000 Oct 2018 to Sept 2021
Sponsor: CDC (PI: Rimmer)
Role: Biostatistician and health service researcher
Percent Effort: 5%
3. *Title: Effect of Time-restricted Feeding on 24-Hour Glycemic Control, Blood Pressure, And Cardiovascular Disease Risk Factors in Adults with Prediabetes* \$3,700,000 July 2018 to May 2023
Sponsor: NIH NIDDK (PI: Peterson)
Percent Effort: 20% (last year)
Role: Biostatistician
4. *Title: Macronutrients and Body Fat Accumulation: A Multicenter Mechanistic Feeding Study* \$375,000 Aug 2017 to Jul 2021
Sponsor: Laura and Arnold Johnson Foundation with Subcontract from Boston Children's Hospital (PIs: Ludwig and Allison)
Role: Subcontract Site Principal Investigator (PI) and Co-PI of the Data Monitoring, Management and Analysis Core
Percent Effort: 20 %

<p>5. <i>Title:</i> Comparative Effectiveness Trial between a Clinic-and Home-Based Complementary and Alternative Medicine Telerehabilitation Intervention for Adults with Multiple Sclerosis (MS). <i>Sponsor:</i> Patient Centered Outcomes Research Institute (PI: Rimmer) <i>Role:</i> Co-Investigator <i>Percent Effort:</i> 20%</p>	<p>\$5,800,000</p>	<p>Nov 2016 to Oct 2020</p>
<p>6. <i>Title:</i> Scale up evaluation of a physical activity program for adult with physical disability <i>Sponsor:</i> NIH NICHD (PI: Rimmer) <i>Role:</i> Co-Investigator <i>Percent Effort:</i> 10%</p>	<p>\$2,500,000</p>	<p>Mar 2016 to Jan 2021</p>
<p>7. <i>Title:</i> Dose-Response Effects of Transformative Exercise in Improving Health and Function in Adults with Spinal cord Injury and Multiple Sclerosis <i>Sponsor:</i> National Institute on Disability, Independent Living, and Rehabilitation Research (PI: Rimmer) <i>Role:</i> Co-Investigator <i>Percent Effort:</i> 5 %</p>	<p>\$2,375,000</p>	<p>Oct 2013 to Sep 2018</p>
<p>8. <i>Title:</i> Validation of Segmental Body Composition Assessment for SCI/D <i>Sponsor:</i> Paralyzed Veterans of America (PI: Wingo) <i>Role:</i> Biostatistician <i>Percent Effort:</i> 10%</p>	<p>\$150,000</p>	<p>Jan 2018 to Dec 2018</p>
<p>9. <i>Title:</i> Nutrition Obesity Research Center <i>Sponsor:</i> NIH NIDDK P30 (PI: Nagy) <i>Role:</i> Biostatistics Core Member <i>Percent Effort:</i> 5%</p>	<p>\$5,560,000</p>	<p>Jun 2017 to May 2022</p>
<p>10. Rehabilitation Engineering Research Center on Exercise and Recreational Technologies for People with Disabilities (RecTech IV) <i>Project D1: PRECISE Decision Support Tool: Precision-based Recreation, Exercise in Community Inclusive Settings and Environments</i> <i>Project R1: PRECISE Point-of-Care Decision Support Tool for Promoting Exercise and Recreation in People with Physical Disabilities</i> <i>Funder:</i> National Institute on Disability, Independent Living, and Rehabilitation Research (PI: Rimmer) <i>Role:</i> Co-Investigator and Project PI of D1 and Co-PI of R1 <i>Percent Effort:</i> 10 %</p>	<p>\$4,625,000</p>	<p>Oct 2017 to Sep 2022</p>

Completed

<p>11. <i>Title:</i> Beyond Textbook, Yet Simple, Statistical Tools For Reproducible Animal Research <i>Sponsor:</i> NIH NIGMS <i>Role:</i> PI</p>	<p>\$150,000</p>	<p>Sep 2015 to Aug 2018</p>
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Percent Effort: 5%

10. Title: Aligning policy and healthcare services with Veterans' values and preferences for results from Whole Genome Sequencing (REVEALS study) <i>Sponsor:</i> VA Office of Research and Development Subcontract from Birmingham and Tuscaloosa Veterans Affairs (VA) Medical Center (PI: Sara Knight) <i>Role:</i> Subcontract Site Principal Investigator (PI) for the Data Management and Analysis Core Percent Effort: 20 %	\$63,000	Nov 2017 to June 2018
11. Rehabilitation Engineering Research Center on Interactive Exercise Technologies and Exercise Physiology Benefiting Persons with Disabilities (RecTech III) <i>Sponsor:</i> National Institute on Disability, Independent Living, and Rehabilitation Research (PI: Rimmer) <i>Role:</i> Co-Investigator	\$4,625,000	Jul 2013 to Sep 2017
12. Personalized telehealth weight management system for overweight adults with disabilities. <i>Sponsor:</i> NIH R43/R44 Small Business Innovative Research (Subcontract from industry partner BrightOutcome with Subcontract PI: Rimmer) <i>Role:</i> Statistician	\$233,000	Jul 2013 to Apr 2015
13. Development of a Community Health Inclusion Index <i>Sponsor:</i> University of Illinois Chicago (PI: Rimmer) <i>Role:</i> Statistician	\$42,000	Aug 2013 to Aug 2014
14. Internet Based Systems for Managing Obesity in Children With Disabilities <i>Sponsor:</i> NIH R21 (PI: Rimmer) <i>Role:</i> Statistician	\$330,000	Jul 2013 to Aug 2015
15. Quad-Rider Accessible Handcycle <i>Sponsor:</i> NIH R43/R44 Small Business Innovative Research with industry partner Invotek, Inc. (Site PI: Rimmer) <i>Role:</i> Statistician	\$55,000	Mar 2014 to Jun 2016

Intramural

Active

16. UAB Center for Health Organization and Transformation (CHOT) Project on Models of Care Coordination and Care Transition in Patients with Traumatic Spinal Cord Injury <i>Sponsor:</i> National Science Foundation and Industry Sponsors (PI: Weech-Maldonado) <i>Role:</i> Project Co-PI Percent Effort: 5%	\$90,000	Jun 2017 to Dec 2018
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Completed

- 17.** Nutrition Obesity Research Center Pilot and Feasibility Grant titled "Have the Advances in Cardiometabolic Treatments Attenuated the Obesity-Mortality Association?"
Sponsor: NIH-funded UAB NORC (PI: Allison)
Role: Principal Investigator of the Pilot and Feasibility Project
- \$25,000 Jul 2014 to May 2017
- 18.** K07 Pilot grant titled "Obesity Staging Systems, Interventions And Longevity"
Sponsor: NIH-funded K07 (PI: Locher)
Role: Principal Investigator of the Pilot Project
- \$10,000 Mar 2016 to Apr 2017
- 19.** Digging Deeper to Understand the Hispanic Obesity Mortality Paradox
Sponsor: Lister Hill Center for Health Policy's Atlanta Census Research Data Center Intramural Grant Program
Role: Principal Investigator
- \$15,000 Jul 2013 to Aug 2015

Honors

- "Creativity is a Decision" Faculty Contest Winner UAB Nutrition and Obesity Research Center 2016
- Best Obesity Paper Award at UAB Science Unbound Foundation 2015
- Named New Investigator Award UAB Nutrition Obesity Research Center 2014
- Inducted into the Delta Omega Honorary Society UAB's School of Public Health Upsilon Chapter 2014
- Integrated Health Interview Series Student Research Award for PMID 23596157 Minnesota Population Center, University of Minnesota 2013
- Outstanding Student Poster Award, National Conference on Health Statistics, National Center for Health Statistics 2012
- National Science Foundation Travel Award Southern Research Council on Statistics 2012 Summer Conference 2012
- Publication [PMCID: PMC3252343] Recognized by Faculty of 1000 2012
- Pat Simons Travel Award The Obesity Society Annual Meeting 2011
- "Creativity is a Decision" Student Contest Winner UAB Nutrition and Obesity Research Center 2011
- Top Student Poster Award UAB Center for Aging 2008
- Best Statistical Genetics Paper at UAB 2005

Science Unbound Foundation

- Computational Genomics Conference Travel Award 2004
The Institute of Genomic Research (TIGR)
- BioMoby Workshop Travel Award 2004
University of California at San Diego
- Data Mining and Machine Learning Workshop Travel Award 2003
Statistical and Applied Mathematical Sciences Institute (SAMSI)

Service

Professional

National

The Obesity Society (2013 to Present)

- Chair-Elect, Health Services Section Oct 2017 to Present
- Elected Treasury/Secretary, Health Services Section Nov 2016 to Oct 2017
- Member, Finance Committee Nov 2016 to Present
- Member, Advocacy Committee Nov 2015 to Oct 2018
- Member, Public Affairs Committee Nov 2013 to Oct 2015
- Member, Early-Career Committee Nov 2013 to Oct 2015

Eastern North American Region (ENAR) of International Biometric Society

- Council of Emerging and New Statisticians Member Jul 2012 to Mar 2015
- Session Organizer of Session Titled "Should I do a Post-Doc?", ENAR Annual Meeting Mar 2014

Grant Reviewing

- Reviewer for National Institute on Disability, Independent Living, and Rehabilitation May 2018 to Present
- Reviewer for *Patient Centered Outcomes Research Institute* Mar 2017 to Present
- Reviewer/Panelist for the *National Science Foundation* 2015 and 2018

Editorial Activities

- Statistical Advisory Board, PLOS ONE Dec 2018 onwards

- Editorial Board Member, Clinical Obesity Journal Sept 2017 to Present
- Specialty Chief Editor, Frontiers in Nutrition (Nutritional Methodology Section) Oct 2013 to Dec 2016
- Journal Reviewer 2013 to Present
 1. Obesity Journal
 2. Obesity Reviews Journal
 3. American Journal of Clinical Nutrition
 4. American Journal of Epidemiology
 5. International Journal of Environmental Research and Public Health
 6. Surgery for Obesity and Related Diseases
 7. Public Health Reports
 8. PLOS One
 9. The Lancet Diabetes and Endocrinology
 10. PharmacoEconomics
 11. Aging Research Reviews
 12. International Journal of Obesity
 13. JAMA

Institution

University-wide (Faculty Senate)

- Chair, Faculty Senate Research Committee Sep 2017 to Present
- Strategic IT Advisory Committee Member 2017 to Present
- Process Improvement Taskforce Member Sep 2016 to Present
- Elected Faculty Senator from School of Health Professions Sep 2016 to Present
- Faculty Senate Research Committee Member Sep 2015 to Aug 2016
- IT Faculty Consulting Committee Sep 2015 to 2017
- Alternate Faculty Senator from School of Health Professions Sep 2015 to Present
- Ad hoc Faculty Development Grant Program Reviewer 2015

Departmental

- Chair, Healthcare Quality and Safety Program Faculty Recruitment Search Committee April 2017 to present
- UAB Center for Health Transformation Strategic 2015 to Present

Planning Committee

- Masters of Science in Healthcare Quality and Safety Program Committee 2015 to Present
- Rehabilitation PhD Qualifying Exam Methods Section Committee 2017

Teaching

Graduate-Level Course

HQS 615 : Collaborative Analytics for Quality and Safety Improvement Spring 2016 to Present

Invited Guest Lectures

- RHB 783 Research Design in Rehab Science Two classes on Statistical Rigor and Reproducibility in Research Fall 2015 to Present
- RHB 784-HP Research Design/Measure Rehab Science 2 Two Classes on Analytic Techniques for Causal Inferences using Large Observational Data Spring 2017 to Present
- HIM665: Health Data Analytics for Performance Improvement Taught Overview of Data Aggregation, Data Linkages, and Data Mining Fall 2015
- NIH-funded Third Short Course on Strengthening Causal Inference in Behavioral Obesity Research at Birmingham, AL Interactive lecture about causal inference challenges in obesity, BMI change and mortality in humans Jul 2016
- NIH-funded Second Short Course on Strengthening Causal Inference in Behavioral Obesity Research at Birmingham, AL Interactive lecture on open problems about modeling policy effect on obesity Jul 2015
- NIH-funded Second Short Course on Mathematical Sciences In Obesity Research at Birmingham, AL Interactive lecture on open problems about modeling policy effect on obesity Jun 2015

Dissertation/Thesis/Graduate Project Committees

Active

1. Avantika Naidu (PhD Candidate)

Title: Effects of differential fore-aft resistive forces on propulsive force generation during walking
Rehabilitation Sciences Program, School of Health Professions, UAB
Role: Statistical Design and Methods Committee Member

2. Wendy Huacong (Proposal Defense Scheduled Dec 2017)
Title: Obesity and Spinal Cord Injury
Rehabilitation Sciences Program, School of Health Professions, UAB
Role: Statistical Design and Methods Committee Member
3. Landeros, Cesar (DSc Student)
Title: TBA
DSc Program Administration-Health Services
Role: Statistical Design and Methods Committee Member
4. Yumi Kim (Proposal Defense Scheduled January 2018)
Title: TBA
PhD Student, Rehabilitation Sciences Program, UAB
Role: Research Mentor/Chair

Completed

5. Sarah Graham (Awarded PhD in July 2018)
Title: Interactions between posture and locomotion in non-impaired and post-stroke walking.
Rehabilitation Sciences Program, School of Health Professions, UAB
Role: Statistical Design and Methods Committee Member
6. Ronique Evans (Awarded PhD in Nov 2017)
Title: Application of a Taxonomy for Home Healthcare Agencies: Examining Variation in Quality and Financial Performance
Department of Health Services Administration, UAB
Role: Statistical Design and Methods Committee Member
7. Katie Henley (Awarded PhD in Nov 2017)
Title: Bio-behavioral markers of supraspinal pain in clinically relevant models of spinal cord injury
Rehabilitation Sciences Program, School of Health Professions, UAB
Role: Chair and Statistical Design and Methods Member
8. Sarah Blaylock (Awarded PhD June 2017)
Title: Increasing the Accessibility of a Falls Prevention Intervention for Community-Dwelling Older Adults with Low Vision
Rehabilitation Sciences Program, School of Health Professions, UAB
Role: Statistical Design and Methods Committee Member
9. Soumya Upadhyay (Awarded PhD June 2017)
Title: Patient Safety: Organizations, Culture, and Information Technology
Department of Health Services Administration, UAB
Role: Statistical Design and Methods Committee Member
10. Theresa Hoenemeyer (Awarded PhD in Spring 2016)
Rehabilitation Sciences Program in Department of Health Behavior, UAB
Title: The Use of an Open-Label Placebo Intervention to Treat Cancer-Related Fatigue in Colorectal Cancer Survivors
Role: Statistical Design and Methods Committee Member
11. Carrie Howell (Awarded PhD in Fall 2015)

Rehabilitation Sciences Program in Department of Health Behavior, UAB
Title: Obesity and Mortality in Hispanics
Role: Statistical Design and Methods Committee Member

12. Phillip Hunter Allman (MS in Biostatistics in Fall 2017)
Department of Biostatistics, UAB
Role: Research Advisor and Committee Member
13. Archana Naik (MSPH Fall 2016)
Department of Biostatistics, UAB
Role: Research Advisor and Committee Member
14. Peng Qu (Awarded MS in Biostatistics in 2015)
Department of Biostatistics, UAB
Role: Research Advisor and Committee Member

Mentoring

Active

- | | |
|---|---------------------|
| 15. Ganisher Davlyatov
Postdoctoral Scholar | Aug 2018 to Present |
| 16. Lua Wilkinson
UAB Nutrition Obesity Research Center Postdoctoral Trainee | Aug 2016 to Present |
| 17. Navneet Baidwan
Postdoctoral Scholar | Oct 2018 to Present |
| 18. Lieu Thompson
PhD Student, Dept. of Health Services Administration, UAB | Aug 2016 to Present |

Completed

- | | |
|---|----------------------|
| 19. Harrington Joe
Undergraduate Honors Student,
Health Care Management Program, Dept. of Health Services Administration, UAB | Aug 2016 to Present |
| 20. Keisuke Ejima
UAB Nutrition Obesity Research Center Postdoctoral Trainee | Aug 2015 to Aug 2017 |