

John Alexander Dawson, Ph.D.

Assistant Professor, Department of Nutritional Sciences, Texas Tech University
Human Sciences 301F, 1301 Akron Ave, Lubbock, TX 79409
Office: (806) 834-7615 Email: john.a.dawson@ttu.edu
Website: <https://www.depts.ttu.edu/hs/ns/dawson.php>

Education and Academic Employment

2001 – 2005 B.S. (summa cum laude) in Mathematics
 University of Iowa, Iowa City, IA
2005 – 2012 Ph.D. in Statistics with Biostatistics option
 University of Wisconsin-Madison, Madison, WI
2012 – 2014 Postdoctoral scholar, Office of Energetics / Section on Statistical Genetics,
 University of Alabama at Birmingham, Birmingham, AL
2014 – Assistant Professor, Department of Nutritional Sciences
 Texas Tech University, Lubbock, TX

Professional Association Memberships

2013 – 2020 The Obesity Society (TOS)
2009 – American Statistical Association

Awards, Honors and Recognition

2001 Catherine M Wegner Scholarship, Department of Mathematics, U Iowa
2005 – Phi Beta Kappa Honors Society
2008 Student Travel Award, 6th Pathways, Networks, Systems Conference, Platanias,
 Chania, Crete, Greece
2013 Finalist, Ethan Sims Young Investigator Award, TOS
2017 – 2019 Top Reviewer (1%) for the American Journal of Clinical Nutrition, 3 years in a row

Grant Support

Funded

Sponsor: USDA-NIFA-NLGCA; Title: Equine-Assisted Positively Fit - A Family-based Obesity Intervention for Rural Youth; Amount: \$150,000 (under negotiation); PI: Schroeder; Role: Statistician (Co-I)

Sponsor: American Society for Nutrition Foundation; Title: Cooking with Monosodium Glutamate to Increase Vegetable Consumption as assessed by the Remote Food Photography Method and Resonance Raman spectroscopy; Amount: \$10,000; PI: Galyean; Role: Statistician (Co-I)

Sponsor: Alliance for Potato Research and Education; Title: What are the effects of potatoes, utilizing specific cooking methods, on blood pressure in persons with Type 2 diabetes who follow the DASH diet for 8 weeks?; Amount: \$22,000; PI: Galyean; Role: Statistician (Co-I)

Sponsor: USDA-NIFA NLGCA; Title: Synergistic Effects Of Omega 3 Polyunsaturated Fatty Acids And Anthocyanins In Inflammation-Associated; Amount: \$545,396; PI: Moustaid-Moussa; Role: Statistician (Co-I)

Sponsor: American Egg Board; Title: Determining dietary pattern accompanying egg intake (extension); Amount: \$20,000; PI: Dhurandhar; Role: Statistician (Co-I)

Sponsor: American Egg Board; Title: Does higher protein quality breakfast reduce energy intake when following a weight loss diet plan?; Amount: \$65,450; PI: Dhurandhar; Role: Statistician (Co-I)

Sponsor: American Egg Board; Title: Determining dietary pattern accompanying egg intake; Amount: \$47,468; PI: Dhurandhar; Role: Statistician (Co-I)

Sponsor: American Egg Board; Title: Does higher protein quality breakfast reduce energy intake when following a weight loss diet plan?; Amount: \$67,195; PI: Dhurandhar; Role: Statistician (Co-I)

Submitted

Sponsor: DHHS NIH; Title: Broadly protective coronavirus vaccine development program (P01); Amount: \$18,638,949; PI: Gill; Role: Lead Statistician in Administrative and Biostatistics Core

Sponsor: Human-Animal Bond Research Institute; Title: Equine-Assisted Positively Fit - A Family-based Obesity Intervention for Youth; Amount: \$57,427; PI: Schroeder; Role: Statistician (Co-I)

Sponsor: National Cattlemen's Beef Association; Title: The effect of unprocessed red meat vs. plant-based protein sources on micronutrient status in bariatric surgery patients; Amount: \$171,717; PI: Galyean; Role: Statistician (Co-I)

Not funded

Sponsor: American Heart Association; Title: Combining fish oil and exercise to improve obesity-associated inflammation and cardiometabolic health; Amount: \$128,542; PI: Albract-Schulte; Role: Statistician (Co-I)

Sponsor: DHHS NIH; Title: Adipose-targeting nanoparticles: Browning white adipose tissue for obesity treatment; Amount: \$2,989,351; PI: Wang; Role: Statistician (Co-I)

Sponsor: USAID; Title: The Greening and Optimization of Agricultural Transformation (GOAT) Project; Amount: \$526,543; PI: Oldewage-Theron; Role: Statistician (Co-I)

Sponsor: Alliance for Potato Research and Education; Title: What are the effects of potatoes, utilizing specific cooking methods, on health indices, cardiometabolic markers and gene expression(inflammatory) in persons with Type 2 diabetes who follow the DASH diet for 8 weeks?; Amount: \$170,020; PI: Galyean; Role: Statistician (Co-I)

Sponsor: Human-Animal Bond Research Institute; Title: Riding Into Weight Loss: An Equine-Assisted Childhood Obesity Intervention For Youth; Amount: \$61,375; PI: Schroeder; Role: Statistician (Co-I)

Sponsor: NIH NIDDK; Title: Adipose-targeting resveratrol nanoparticles for obesity treatment; Amount: \$2,299,210; PI: Wang; Role: Statistician (Co-I)

Sponsor: DHHS NIH; Title: Renewal: Adipose-targeting resveratrol nanocarriers: browning WAT inhibits atherosclerosis; Amount: \$434,369; PI: Wang; Role: Statistician (Co-I)

Sponsor: DHHS NIH; Title: Unfavorable Relative Social Comparisons as a Driver of Body Fatness in Humans; Amount: \$1,064,220; PI: Dhurandhar; Role: Statistician (Co-I)

Sponsor: NIH NCI; Title: Impact of comprehensive intervention to reduce sedentary behavior on biomarkers associated with cancer risk; Amount: 409,750; PI: Binks; Role: Statistician (Co-I)

Sponsor: NIH NHLBI; Title: Protein Supplementation for Obesity Prevention: a Randomized Controlled Trial; Amount: \$368,141; PI: Dhurandhar; Role: Statistician (Co-I)

Sponsor: NIH NCI; Title: Combating obesity using local and targeted delivery approaches; Amount: \$1,500,000; PI: Wang; Role: Statistician (Co-I)

Sponsor: DHHS NIH; Title: Goal Activation Training to Decrease Diabetes and Obesity; Amount: \$376,896; PI: Alquist; Role: Statistician (Co-I)

Sponsor: Alliance for Potato Research and Education; Title: Do potatoes enhance satiety during a restricted calorie diet?; Amount: \$219,632; PI: Dhurandhar; Role: Statistician (Co-I)

Sponsor: NIH NCCIH; Title: Obesity prevention and treatment using adipose tissue-targeted retinaldehyde nanoparticles; Amount: \$1,949,901; PI: Wang; Role: Statistician (Co-I)

Sponsor: TTU Health Sciences Center; Title: Anti-inflammatory Effects of Tocotrienols and Tart Cherry Anthocyanins in Obesity; Amount: \$112,437; PI: Moustaid-Moussa; Role: Statistician (Co-I)

Sponsor: American Heart Association; Title: Effect of food-based tocotrienols and anthocyanins on cardiometabolic biomarkers and dietary risk for obesity; Amount: \$1,007,531; PI: Oldewage-Theron; Role: Statistician (Co-I)

Sponsor: American Heart Association; Title: Anti-inflammatory effects of tocotrienols and tart cherry anthocyanins in obesity; Amount: \$1,042,993; PI: Moustaid-Moussa; Role: Statistician (Co-I)

Sponsor: USDA; Title: Synergistic Effects Of Omega 3 Polyunsaturated Fatty Acids And Anthocyanins In Inflammation-Associated Obesity And Insulin Resistance; Amount: \$500,000; PI: Moustaid-Moussa; Role: Statistician (Co-I)

Sponsor: USDA; Title: Anti-inflammatory effects of n-3 polyunsaturated fatty acids and anthocyanins in inflammation-associated obesity and insulin resistance; Amount: \$500,000; PI: Moustaid-Moussa; Role: Statistician (Co-I)

Publications

Refereed journal publications

- 2 1. Dennison S, Haulena M, Williams DC, Dawson JA, Yandell BS, Gulland FMD. Determination of a sedative protocol for use in California sea lions (*Zalophus californianus*) with neurologic abnormalities undergoing electroencephalographic examination. *Journal of Zoo and Wildlife Medicine*, vol. 39, no. 4, pp. 542-547, 2008.
- 2 2. Lavine JA, Raess PW, Stapleton DS, Rabaglia ME, Suhonen JI, Schueler KL, Koltes JE, Dawson JA, Yandell BS, Samuelson LC, Beinfeld MC, Davis DB, Hellerstein MK, Keller MP, Attie AD. Cholecystokinin is up-regulated in obese mouse islets and expands β -cell mass by increasing β -cell survival. *Endocrinology*, vol. 151, no. 8, pp. 3577-88, 2010.
- 3 3. Wang P, Dawson JA, Keller MP, Yandell BS, Thornberry NA, Zhang BB, Wang I-M, Schadt EE, Attie AD. A model selection approach for expression quantitative trait loci (eQTL) mapping. *Genetics*, vol. 87, no. 2, pp. 611-21, 2011.
- 3 4. Flowers MT, Paton CM, O'Byrne SM, Schiesser K, Dawson JA, Blaner WS, Kendzierski C, Ntambi JM. Metabolic changes in skin caused by *Scd1* deficiency: a focus on retinol metabolism. *PLoS One*, vol. 6, no. 5, e19734, 2011.
- 2 5. Raines SM, Richards OC, Schneider LR, Schueler KL, Rabaglia ME, Oler AT, Stapleton DS, Genove G, Dawson JA, Betsholtz C, Attie AD. Loss of PDGF-B activity increases hepatic vascular permeability and enhances insulin sensitivity. *American Journal of Physiology: Endocrine and Metabolism*, vol. 301, issue 3, pp. E517-E526, 2011.
- 3 6. ⁽²⁾Dawson JA and Kendzierski C. An empirical Bayesian approach for identifying differential co-expression in high-throughput experiments. *Biometrics*, vol. 68, no. 2, pp. 45-65, 2012.
- 4 7. ⁽²⁾Dawson JA, Ye S, Kendzierski C. R/EBcoexpress: An empirical Bayesian framework for discovering differential co-expression. *Bioinformatics*, vol. 28, no. 14, pp. 1939-40, 2012.
- 4 8. Leng N, Dawson JA, Stewart RM, Ruotti V, Rissman A, Smits B, Haag J, Gould MN, Thomson JA, Kendzierski C. EBseq: An empirical Bayes hierarchical model for inference in RNA-seq experiments. *Bioinformatics*, vol. 29, no. 8, pp. 1035-43, 2013.
- 3 9. ⁽²⁾Dawson JA, Dhurandhar EJ, Vasquez AI, Peng B, Allison DB. Propagation of Obesity across Generations: The Roles of Differential Realized Fertility and Assortative Mating by Body Mass Index. *Human Heredity*, vol. 75, no. 2-4, pp. 204-12, 2013.
- 2 10. Mitchell SJ, Martin-Montalvo A, Mercken EM, Palacios HH, Ward TM, Minor RK, Vlasuk GP, Ellis JL, Sinclair DA, Dawson JA, Allison DA, Zhang Y, Becker KG, Bernier M, de Cabo R. The SIRT1 activator SRT1720 extends lifespan and improves health of mice fed a standard diet. *Cell Reports*, vol. 6, issue 5, pp. 836-43, 2014.
- 3 11. Santos DA, Dawson JA, Matias CN, Rocha PM, Minderico CS, Allison DB, Sardinha LB, Silva AM. Reference Values for Body Composition and Anthropometric Measurements in Athletes. *PLoS One*, 9 (5), e97846, 2014.

In nutrition, biostatistics and applicable sciences, more weight is given to first or last (senior) authorship.

⁽¹⁾ denotes senior/co-senior authorship

⁽²⁾ denotes primary/co-primary author

BOLD denotes student authorship under mentorship of Dr. Dawson; not used for past student authors

- 2 12. Ye S, Dawson JA, Kendzierski C. Extending information retrieval methods to personalized genomic-based studies of disease. *Cancer Informatics*, 13 (Suppl 7), pp 85-95, 2014.
- 4 13. Dhurandhar EJ, Dawson JA, Alcorn AS, Hingstrup L, Thomas E, Cardel M, Bourland A, Astrup A, St-Onge M-P, Hill JO, Apovian C, Shikany J, Allison DB. The Effectiveness of Breakfast Recommendations on Weight Loss: A Randomized Controlled Trial. *American Journal of Clinical Nutrition*, 100 (2), pp. 507-13, 2014.
- 2 14. Doke DA, Hudson SL, Dawson JA, Gohlke JM. Effects of early life exposure to methylmercury in *Daphnia pulex* on standard and reduced food ration. *Reproductive Toxicology* (Elmsford, NY), 49, pp 219-25, 2014.
- 3 15. Christopherson MR, Dawson JA, Stevenson D, Cunningham A, Bramhacharya S, Weimer PJ, Kendzierski C, Suen G. Unique aspects of fiber degradation by the ruminal ethanologen *Ruminococcus albus* 7 revealed by physiological and transcriptomic analysis. *BMC Genomics*, 15, 1066, 2014.
- 4 16. Casazza., Brown AW, Astrup A, Bertz F, Baum C, Brown MB, Dawson JA, Durant N, Dutton G, Fields DA, Fontaine KR, Heymsfield S, Levitsky D, Mehta T, Menachemi N, Newby PK, Pate R, Raynor H, Rolls BJ, Sen B, Smith Jr. DL, Thomas D, Allison DB. Weighing the Evidence of Common Beliefs in Obesity Research. *Critical Reviews in Food Science and Nutrition*, 55 (14), pp. 2014-2053, 2015.
- 3 17. Capers PL, Brown AW, Dawson JA, Allison DB. Double sampling with multiple imputation to answer large sample meta-research questions: Introduction and illustration by evaluating adherence to two simple CONSORT guidelines. *Frontiers in Nutrition*, 2, 6, 2015.
- 4 18. Dutton GR, Fontaine KR, Alcorn AS, Dawson JA, Capers PL, Allison DB. Randomized controlled trial examining expectancy effects on the accuracy of weight measurement. *Clinical Obesity*, 5 (1), pp. 38-41, 2015.
- 3 19. Welham, NV, Ling C, Dawson JA, Kendzierski C, Thibeault SL, Yamashita M. Microarray-based characterization of differential gene expression during vocal fold wound healing in rats. *Disease Models & Mechanisms*, 8 (3), pp. 311-21, 2015.
- 2 20. Arum O, Dawson JA, Smith Jr. DL, Kopchick JJ, Allison DB, Bartke A. Does altered energy metabolism or spontaneous locomotion “mediate” decelerated senescence? *Aging Cell*, 14 (3), pp. 483-90, 2015.
- 5 21. Dhurandhar E, Kaiser KA, Dawson JA, Alcorn AS, Keating KD, Allison DB. Predicting adult weight change in the real world: A systematic review and meta-analysis accounting for compensatory changes in energy intake or expenditure. *International Journal of Obesity*, 39 (8), pp. 1181-7, 2015.
- 5 22. ⁽²⁾Dawson JA, Kaiser KA, Affuso O, Cutter GR, Allison DB. Rigorous control conditions diminish treatment effects in weight loss randomized controlled trials. *International Journal of Obesity*, 40, pp. 895-98, 2016.
- 5 23. George BJ, Beasley TM, Brown AW, Dawson JA, Dimova R, Divers J, Goldsby T, Heo M, Kaiser KA, Keith SW, Kim MY, Li P, Mehta T, Oakes JM, Skinner A, Stuart E, Allison DB.

In nutrition, biostatistics and applicable sciences, more weight is given to first or last (senior) authorship.

⁽¹⁾ denotes senior/co-senior authorship

⁽²⁾ denotes primary/co-primary author

BOLD denotes student authorship under mentorship of Dr. Dawson; not used for past student authors

Common scientific and statistical errors in obesity research. *Obesity*, 24 (4), pp. 781-90, 2016.

- 2 24. Schwartz TS, Pearson P, Dawson JA, Allison DB, Gohlke JM. Effects of fluctuating temperature and food availability on reproduction and lifespan. *Experimental Gerontology*, 86, pp. 62-72, 2016.
- 3 25. Ejima K, Li P, Smith Jr. DL, Nagy TR, Kadish I, van Groen T, Dawson JA, Yang Y, Patki A, Allison DB. Observational research rigour alone does not justify causal inference. *European Journal of Clinical Investigation*, 46 (12), pp. 985-93, 2016.
- 1 26. **Wijayatunga N**, Pahlavani M, Kottapalli R, Dawson JA, Ramalingam L, Gunaratne PH, Coarfa C, Rajapakshe K, Kalupahana NS, Moustaid-Moussa N. Adipose Depot-Specific Differences in Transcriptome and MicroRNA Expression in High Fat Diet Induced Obese Mice. *The FASEB Journal*, 30 (1 Supplement), 626—2, 2016.
- 1 27. Fowler LA, Dennis L, Dawson JA, Barry RJ, Davis JL, Powell M, Yuan Y, Williams M, Watts S. Sex-Specific Differences in the Development of Diet-Induced Obesity in a Zebrafish Model. *The FASEB Journal*, 31 (Suppl 1), 2017.
- 5 28. **Kahathuduwa C**, Binks M, Martin CK, ⁽¹⁾Dawson JA. Extended calorie restriction suppresses overall and specific food cravings: a systematic review and a meta-analysis. *Obesity Reviews / John Wiley & Sons, Inc.*, 18 (10), pp. 1122-35, 2017.
- 2 29. Wagner A, Bradshaw S, Dawson JA, Shumway S. Examining PFC activity and Tonic Anxiety in Alcohol Use Disorder Recovery: a Functional Near Infrared Spectroscopy Study. *Alcoholism Treatment Quarterly*, 35 (3), pp. 243-59, 2017.
- 4 30. Pavela G, Lewis DW, Dawson JA, Cardel M, Allison DB. Social status and energy intake: a randomized controlled experiment. *Clinical Obesity*, <https://doi.org/10.1111/cob.12198>, 2017.
- 2 31. **Wijayatunga N**, Sams VG, Dawson JA, Mancini ML, Mancini GJ, Moustaid-Moussa N. Roux-en-Y gastric bypass surgery alters serum metabolites and fatty acids in patients with morbid obesity. *Diabetes/Metabolism Research and Reviews*, e3045, 2018.
- 3 32. **Wijayatunga N**, Ironuma B, Dawson JA, Rusinovich B, Myers CA, Cardel M, Pavela G, Martin CK, Allison DB, Dhurandhar E. Subjective social status is associated with compensation for large meals – A prospective pilot study. *Appetite*, 132 (1), pp. 249-56, 2018.
- 2 33. **Klobodu S**, ⁽¹⁾Dawson JA, Reed D, Carpio C. Do maternal and child health promote economic development? The case of six Sub-Saharan African countries. *African Journal of Food, Agriculture, Nutrition and Development*, 18 (3), 2018.
- 2 34. McGilvray WD, Klein D, Wooten H, Dawson JA, Hewitt D, Rakhshandeh AR, de Lange CFM, Rakhshandeh A. Immune system stimulation induced by *Escherichia coli* lipopolysaccharide alters plasma free amino acid flux and dietary nitrogen utilization in growing pigs. *Journal of Animal Science*, 97 (1), pp. 315-26, 2018.

In nutrition, biostatistics and applicable sciences, more weight is given to first or last (senior) authorship.

⁽¹⁾ denotes senior/co-senior authorship

⁽²⁾ denotes primary/co-primary author

BOLD denotes student authorship under mentorship of Dr. Dawson; not used for past student authors

- 3 35. **Bakirci-Taylor AL**, Reed DB, McCool B, Dawson JA. mHealth Improved Fruit and Vegetable Accessibility and Intake in Young Children. *Journal of Nutrition Education and Behavior*, 51 (5), pp. 556-566, 2019.
- 2 36. Rakhshandeh A, McGilvray WD, Wooten H, Dawson JA, Klein D, Hewitt D. Immune system stimulation induced by porcine reproductive and respiratory syndrome virus alters plasma free amino acid flux and dietary nitrogen utilization in nursery pigs. *Journal of Animal Science*, 97 (6), pp. 2479-92, 2019.
- 3 37. **Theophilus R**, Miller M, Oldewage-Theron W, Dawson JA. The winning weaning food (WWF): The development of a complementary food for food-insecure infants and young children in Malawi. *Nutrients*, 11, 17 pages, 2019.
- 3 38. Gibson MJ, Dawson JA, Wijayatunga N, Ironuma B, Chatindiara I, Ovalle F, Allison DB, Dhurandhar E. A randomized cross-over trial to determine the effect of a protein vs. carbohydrate preload on energy balance in ad libitum settings. *Nutrition Journal*, 18, Article 69, 2019.
- 2 39. **Akter S**, Dawson JA, **Kahathuduwa C**, **Chin SH**, Binks M. Psychological and weight history variables as predictors of short-term weight and body fat mass loss. *Obesity Science and Practice*, 6 (2), pp. 152-61, 2019.
- 5 40. Brown AW, Altman DG, Baranowski T, Bland JM, Dawson JA, Dhurandhar NV, Dowla S, Fontaine KR, Gelman A, Heymsfield SB, Jayawardene W, Keith SW, Kyle TK, Loken E, Oakes JM, Stevens J, Thomas DM, Allison DB. Childhood obesity intervention studies: A narrative review and guide for investigators, authors, editors, reviewers, journalists, and readers to guard against exaggerated effectiveness claims. *Obesity Reviews*, 20 (11), pp. 1523-41, 2019.
- 2 41. **Albract K**, Rosairo S, Ramalingam L, Wijetunge S, Ratnayake RMCJ, Kotakadeniya HMSRB, Dawson JA, Kalupahana NS, Moustaid-Moussa N. Obesity, adipocyte hypertrophy, fasting glucose, and resistin are potential contributors to nonalcoholic fatty liver disease in South Asian women. *Diabetes Metabolic Syndrome and Obesity – Targets and Therapy*, 12, pp. 863-72, 2019.
- 2 42. Fowler LA, Dennis-Cornelius LN, Dawson JA, Barry RJ, Davis JL, Powell ML, Yuan Y, Williams MB, Makowsky R, D'Abramo LR, Watts SA. Both Dietary Ratio of n-6 to n-3 Fatty Acids and Total Dietary Lipid Are Positively Associated with Adiposity and Reproductive Health in Zebrafish. *Current Developments in Nutrition*, 4 (4), nzaa034, 2020.
- 2 43. **Gonzalez E**, Childress A, Dawson JA, McCutchin D. Prevalence of Eating Disorders and Their Association with a Previously Suffered Concussion among Student-Athletes at a Power Five Conference University. *Current Developments in Nutrition*, 4 (Supplement 2), 1753, 2020.
- 2 44. **Saha S**, Dawson JA, Murimi M, Dodd S, Oldewage-Theron W. Effects of a nutrition education intervention on fruit and vegetable consumption-related dietary behavioural factors among elementary school children.. *Health Education Journal*, 11, 2020.

In nutrition, biostatistics and applicable sciences, more weight is given to first or last (senior) authorship.

⁽¹⁾ denotes senior/co-senior authorship

⁽²⁾ denotes primary/co-primary author

BOLD denotes student authorship under mentorship of Dr. Dawson; not used for past student authors

- 2 45. **Moyeda Carabaza A**, Murimi M, Dawson JA, Carrales-Bruno F. Effects of a Diabetes Education Intervention on Diabetes-Related Factors among Mexican Origin Hispanics. *Health Education Journal*, 79 (5), pp. 501-15, 2020.
- 2 46. **Drygiannaki I**, Rao B, Dawson JA, Rakowska M, Reible D, Hayman NT, Rosen GH, Colvin MA, Chadwick DB, Pitt R, Otto M, Steets B, Ervin J. Assessing sediment recontamination from metals in stormwater. *The Science of the Total Environment*, 737, 139726, 2020.
- 2 47. **Drygiannaki I**, Bejar M, Reible D, Dawson JA, Rao B, Hayman NT, Rosen GH, Colvin MA. Assessing Biota Accumulation Due to Contamination of Sediments by Storm Water Heavy Metals. *Environmental toxicology and chemistry*, 39 (12), pp. 2475-84, 2020.
- 2 48. **Dhanasekara C**, Dawson JA, Martin CK, Dhurandhar N. No association between consumption of eggs with energy or macronutrient intake: Objective evidence from the remote food photography method. *Diabetes & Metabolic Syndrome*, 15 (1), pp. 313-8, 2021.
- 5 49. Wijayatunga N, Bailey D, Klobodu S, Dawson JA, Knight K, Dhurandhar E. A short, attribution theory-based video intervention does not reduce weight bias in a nationally representative sample of registered dietitians: a randomized trial. *International Journal of Obesity*, 45, pp. 787-94, 2021.
- 4 50. Kroeger CM, Ejima K, Hannon BA, Halliday TM, McComb B, Teran-Garcia M, Dawson JA, King DB, Brown AW, Allison DB. Persistent confusion in nutrition and obesity research about the validity of classic nonparametric tests in the presence of heteroscedasticity: evidence of the problem and valid alternatives. *American Journal of Clinical Nutrition*, 113 (3), pp. 517-24, 2021.
- 2 51. **Peng L-L**, Childress A, Dawson JA, Jai TM, Punyanunt-Carter N, Oldewage-Theron W. Food safety education for elementary school students worldwide. *International Journal of School Education*, 8 (1), 13 pages, 2021.
- 2 52. **Zu Y**, Zhao L, Hao L, Mechref Y, Zabet-Moghaddam M, Keyel PA, Abbasi M, Wu D, Dawson JA, Zhang R, Nie S, Moustaid-Moussa N, Kolonin MG, Daquinag AC, Brandi L, Warraich I, San Francisco SK, Sun X, Fan Z, Wang S. Browning white adipose tissue using adipose stromal cell-targeted resveratrol-loaded nanoparticles for combating obesity. *Journal of Controlled Release*, 333, pp. 339-51, 2021.
- 2 53. Childress A, Dawson JA, **George J**, Dhurandhar NV. Accuracy of 24-hour recall following a measured highly palatable snack. *Diabetes & Metabolic Syndrome*, 15 (2), pp. 637-638, 2021.
- 5 54. Vorland C, Brown AW, Dawson JA, Dickinson S, Golzarri-Arroyo L, Hannon B, Heo M, Heymsfield S, Jayawardene W, Kahathuduwa C, Keith S, Oakes M, Tekwe C, Thabane L, Allison DB. Errors in the implementation, analysis, and reporting of randomization within obesity and nutrition research: a guide to their avoidance. *International Journal of Obesity*, Accepted, 2021.
- 3 55. **Dhanasekara C**, Dawson JA, Binks M, Childress A, Dhurandhar NV. Egg and Saturated Fat Containing Breakfasts Have No Acute Glycemic Control in Healthy Adults: A Randomized Partial Crossover Trial. *Nutrition and Diabetes*, Accepted, 2021.

In nutrition, biostatistics and applicable sciences, more weight is given to first or last (senior) authorship.

⁽¹⁾ denotes senior/co-senior authorship

⁽²⁾ denotes primary/co-primary author

BOLD denotes student authorship under mentorship of Dr. Dawson; not used for past student authors

Non-refereed publications

- 0 56. ⁽²⁾Dawson JA. Bioconductor Case Studies. The American Statistician, vol. 64, no. 2, pp. 185-186, 2010 [Book review].
- 0 57. ⁽²⁾Dawson JA and Kendzierski C. Survival-supervised latent Dirichlet allocation models for genomic analysis of time-to-event models. University of Wisconsin-Madison Biostatistics Technical Report 225, 2011.
- 0 58. Scholler D, Archer E, Dawson JA, Heymsfield S. Implausible results from the use of invalid methods. The Journal of Nutrition, 145 (1), 150, 2015.
- 0 59. Li P, Brown AW, Dawson JA, Kaiser KA, Brown MM, Keith SW, Oakes JM, Allison DB. Concerning Sichieri R, Cunha DB: Obes Facts 2014;7:221–232. The Assertion that Controlling for Baseline (Pre-Randomization) Covariates in Randomized Controlled Trials Leads to Bias is False. Obesity Facts, 8 (2), pp. 127-9, 2015.
- 0 60. Thomas DM, Brown AW, Dawson JA, Li P, Heymsfield SB, Allison DB. Letter to the Editor: Exceptional Data in Paper on "The effect of meridian massage on BM, BMI, WC and HC in simple obesity patients: a randomized controlled trial". World Journal of Acupuncture-Moxibustion, 25 (1), pp. 66-7, 2015.
- 0 61. Murimi MW and Dawson JA. Response to Prevalence of Food Insecurity in Low-Income Neighborhoods in West Texas: Methodological Issues. Journal of Nutrition Education and Behavior, 49 (1), 87, 2017.
- 0 62. McComb B, Frazier-Wood A, Dawson JA, Allison DB. Drawing Conclusions from Within-Group Comparisons and Selected Subsets of Data Leads to Unsubstantiated Conclusions: Letter Regarding Malakellis et al.. Australian & New Zealand Journal of Public Health, 2017.
- 0 63. ⁽²⁾Dawson JA, Brown AW, Allison DB. The stated conclusions are contradicted by the data, based on inappropriate statistics, and should be corrected: Comment on 'intervention for childhood obesity based on parents only or parents and child compared with follow-up alone'. Pediatric Obesity, 2018.
- 0 64. Vorland CJ, Brown AW, Kahathuduwa CN, Dawson JA, Gletsu-Miller N, Kyle TK, Thabane L, Allison DB. Questions on 'Intervention effects of a kindergarten-based health promotion programme on obesity related behavioural outcomes and BMI percentiles'. Preventive Medicine Reports, 21 (17:101022), 2019.
- 0 65. Jayawardene WP, Brown AW, Dawson JA, Kahathuduwa CN, McComb B, Allison DB. Conditioning on "study" is essential for valid inference when combining individual data from multiple randomized controlled trials: a comment on Ressor et al's School-based weight management program curbs summer weight gain among low-income Hispanic middle school students. The Journal of School Health, 89 (7), pp. 515-518, 2019.

In nutrition, biostatistics and applicable sciences, more weight is given to first or last (senior) authorship.

⁽¹⁾ denotes senior/co-senior authorship

⁽²⁾ denotes primary/co-primary author

BOLD denotes student authorship under mentorship of Dr. Dawson; not used for past student authors

Presentations and Posters

Invited presentations

(2013) *A Bayesian* meta-analytic study of whether rigorous control conditions diminish treatment effects in weight loss randomized controlled trials*. Ethan Sims Young Investigator Award Session, Annual Scientific Meeting of The Obesity Society, Obesity WeekSM, Atlanta

(2018) *Scientific and Statistical Principles: Issues in Multiple Testing*. Nutrition 2018, Boston

Contributed presentations

(2014) *Propagation of Obesity across Generations: The Roles of Differential Realized Fertility and Assortative Mating by Body Mass Index*. Part of the Novel Mathematical Models for Investigating Topics in Obesity symposium, American Society for Nutrition's Scientific Sessions and Annual Meeting at Experimental Biology, San Diego

(2017) *Using a 'Flipped Classroom' Approach to Teach Applied Statistics to Nutrition and Biotechnology Students Using Blackboard Learn (TM) and R*. Joint Statistical Meetings, Baltimore

Contributed posters (presenting)

(2014) *A Randomized Controlled Trial Examining Expectancy Effects on the Accuracy of Weight Measurement*. Annual Scientific Meeting of The Obesity Society, Obesity WeekSM, Boston

(2015) *Modeling plasma amino kinetics in growing pigs*. Annual Scientific Meeting of The Obesity Society, Obesity WeekSM, Los Angeles

(2016) *The 2014 National Health Interview Survey Does Not Provide Evidence that There is an Association Between Food Insecurity and Body Mass Index in Adults But Not in Their Children; Rather, the Association is Present for Both Groups*. Annual Scientific Meeting of The Obesity Society, Obesity WeekSM, New Orleans

(2017) *Association of BMI with Bias and Error in Visual Analog Scales and Other Self-Report Measures*. Annual Scientific Meeting of The Obesity Society, Obesity WeekSM, Washington, DC

(2018) *Systematic Review of the Addictiveness of Sugar*. Annual Scientific Meeting of The Obesity Society, Obesity WeekSM, Nashville, TN

(2019) *Pilot Study: Interrogating Weight History and Attempts to Lose / Manage Weight in Lubbock, TX*. Annual Scientific Meeting of The Obesity Society, Obesity WeekSM, Las Vegas, NV

Peer Review Activity

Editorship and Editorial Board Membership

2016 – 2017 Editorial Board, Journal of Obesity and Eating Disorders
2017 – Board of Editors, Journal of Nutrition Education & Behavior
2019 – Editorial Review Board Member, International Journal of Obesity
2021 – Associate Editor, Nutrition Research (Elsevier)

Ad Hoc Peer Review (last five years)

- American Journal of Clinical Nutrition
- Appetite
- Human Heredity
- International Journal of Environmental Research and Public Health
- Journal of the Academy of Nutrition and Dietetics
- Journal of Nutrition
- Obesity: A Research Journal
- Obesity Reviews
- PLoS One
- Scientific Reports
- Translational Behavioral Medicine

Service

Professional Service

2016 – 2020 Secretary/Treasurer, Chair-Elect, Chair of Basic Science Section (TOS)
2017 Session Chair, Joint Statistical Meetings, Baltimore, MD (ASA)
2018 Competition Adjudicator / Juror, Nutrition (ASN Conference)
2018 Grant Proposal Reviewer, University of Alabama at Birmingham NORC
2020 Grant Proposal Reviewer, Indiana University

University, College and Departmental Service

2016 – Texas Tech University Office of Student Conduct Hearing Panel Pool
2017 – 2020 TTU Convocations Committee

2017 – College of Human Sciences Doctoral Defense Dean's Representative Committee
2018 – 2021 COHS Research Committee
2019 – 2021 COHS Faculty Council

2015 Department of Nutritional Sciences Merit Evaluation Rubric Committee
2016 – 2018 NS Merit Evaluation Rubric Automation Committee
2018 – NS Liaison for Merit Rubric Automation Refinement / Upkeep

Teaching

There are two 5-week Summer semesters (I & II); courses spanning both are full term (FT)

- TTU Spring 2015 - NS5311 Problems in Nutrition: Biostatistics (Grad)
- TTU Spring 2015 - NS7000 Research (Grad)
- TTU Summer II 2015 - NS7000 Research (Grad)
- TTU Fall 2015 - NS5000 Independent Study in Nutrition: Tools for Systematic Reviews and Meta-Analyses (Grad)
- TTU Fall 2015 - NS5330 Introduction to Nutrition Research (Grad)
- TTU Fall 2015 - NS7000 Research (Grad)

- TTU Spring 2016 - NS4220 Medical Terminology [Online] (Undergrad)
- TTU Spring 2016 - NS5342 Biostatistics in Nutrition (Grad)
- TTU Spring 2016 - NS7000 Research (Grad)
- TTU Summer II 2016 - NS8000 Doctor's Dissertation (Grad)
- TTU Fall 2016 - NS5330 Introduction to Nutrition Research (Grad)
- TTU Fall 2016 - NS5342 Biostatistics in Nutrition [Online] (Grad)
- TTU Fall 2016 - NS8000 Doctor's Dissertation (Grad)

- TTU Spring 2017 - NS4220 Medical Terminology [Online] (Undergrad)
- TTU Spring 2017 - NS5342 Biostatistics in Nutrition (Grad)
- TTU Spring 2017 - NS8000 Doctor's Dissertation (Grad)
- TTU Summer FT 2017 - NS7000 Research: Associative methods for predictors of stunting among young children (Grad)
- TTU Fall 2017 - NS5330 Introduction to Nutrition Research (Grad)
- TTU Fall 2017 - NS5342 Biostatistics in Nutrition [Online] (Grad)

- TTU Spring 2018 - NS4220 Medical Terminology [Online] (Undergrad)
- TTU Spring 2018 - NS5342 Biostatistics in Nutrition (Grad)
- TTU Summer II 2018 - NS8000 Doctor's Dissertation (Grad)
- TTU Summer FT 2018 - NS8000 Doctor's Dissertation (Grad)
- TTU Fall 2018 - NS5330 Introduction to Nutrition Research (Grad)
- TTU Fall 2018 - NS5342 Biostatistics in Nutrition [Online] (Grad)
- TTU Fall 2018 – NS7000 Research: Critiquing design, analysis and dissemination of research (Grad)
- TTU Fall 2018 - NS8000 Doctor's Dissertation (Grad)

- TTU Spring 2019 - NS4220 Medical Terminology [Online] (Undergrad)
- TTU Spring 2019 - NS5342 Biostatistics in Nutrition (Grad)
- TTU Spring 2019 - NS8000 Doctor's Dissertation (Grad)
- TTU Summer I 2019 - NS4220 Medical Terminology [Online] (Undergrad)
- TTU Summer FT 2019 - NS5330 Introduction to Nutrition Research [Online] (Grad)
- TTU Summer FT 2018 - NS8000 Doctor's Dissertation (Grad)
- TTU Fall 2019 - NS5330 Introduction to Nutrition Research (Grad)
- TTU Fall 2019 - NS5342 Biostatistics in Nutrition [Online] (Grad)

- TTU Spring 2020 - NS4220 Medical Terminology [Online] (Undergrad)
- TTU Spring 2020 - NS5342 Biostatistics in Nutrition (Grad)
- TTU Summer I 2020 - NS4220 Medical Terminology [Online] (Undergrad)
- TTU Summer FT 2020 - NS5330 Introduction to Nutrition Research [Online] (Grad)
- TTU Fall 2020 - NS5330 Introduction to Nutrition Research (Grad)
- TTU Fall 2020 - NS5342 Biostatistics in Nutrition [Online] (Grad)
- TTU Spring 2021 - NS5330 Introduction to Nutrition Research [Online] (Grad)
- TTU Spring 2021 - NS5342 Biostatistics in Nutrition (Grad)
- TTU Summer I 2021 - NS4220 Medical Terminology [Online] (Undergrad)
- TTU Summer FT 2021 - NS5330 Introduction to Nutrition Research [Online] (Grad)
- TTU Summer FT 2021 - NS5342 Biostatistics in Nutrition [Online] (Grad)
- TTU Fall 2021 - NS5330 Introduction to Nutrition Research (Grad)
- TTU Fall 2021 - NS5342 Biostatistics in Nutrition [Online] (Grad)

Student Mentoring

(* - year) denotes a student who has graduated and their year of graduation

Legend: **NS** Nutritional Sciences; **CECE** Civil, Environmental and Construction Engineering

Master's Thesis Committee Member

- Munoz, Christian; NS
- Garcia, Carolina; NS
- Benavides, Marquis; NS
- Sawant, Dhanashree; NS
- Gonzalez, Eduardo (* - 2020) ; NS
- Macias, Jannin (* - 2019) ; NS
- Hwang, Wei Lin (* - 2019) ; NS
- Theophilus, Rufus (* - 2019) ; NS
- Lee, Hyunjung (Grace) (* - 2019) ; NS
- Miller, Makenzie (* - 2019) ; NS
- Moyeda, Ana (* - 2018) ; NS
- Akter, Sharmin (* - 2018) ; NS
- George, Jordan (* - 2017) ; NS
- Anderson, Gates (* - 2017) ; NS
- Bailey, Dylan (* - 2017) ; NS
- Gamage, Suhadinie (* - 2017) ; NS
- Nguyen, Bong (* - 2016) ; NS

Doctoral Dissertation Committee Chair or Co-chair

- Zhu, Yaqiong (* - 2019) ; NS [Co-chair]
- Rana, Ziaul (* - 2019) ; NS [Chair]
- Klobodu, Selorm (Seth) (* - 2017) ; NS [Co-chair]

Doctoral Dissertation Committee Member

- Lee, Hyunjung (Grace); NS
- Ibiyemi, Temitope; NS
- Githinji, Phrashiah; NS
- Bala, Faith; NS
- Moyo, Gugulethu; NS
- Peng, Li-Ling (Penny); NS
- Moyeda Carabaza, Ana (* - 2021); NS
- Nguyen, Bong (* - 2020) ; NS
- Jamshidinaeini, Yasaman (* - 2020) ; NS
- Mukherjee, Upasana (* - 2020) ; NS
- Drygiannaki, Ilektra (* - 2020) ; CECE
- Dhanasekara, Samudani (* - 2019) ; NS
- Saha, Sanjoy (* - 2019) ; NS
- Chin, Shao Hua (* - 2018) ; NS
- Amin Md, Ruhul (* - 2017) ; NS
- Childress, Allison (* - 2017) ; NS
- Wijayatunga, Nadeeja (* - 2017) ; NS

Media Contributions

- Interviewed as a subject matter expert for Washington Post article (published July 21, 2017):

<https://www.washingtonpost.com/news/to-your-health/wp/2017/07/21/nutrition-science-isnt-broken-its-just-wicked-hard/>