
Alison Gustafson PhD, MPH, RD
Dietetics and Human Nutrition
Associate Professor - promoted July 2016
Research and Instruction Regular Title Series
DOE FY '17 88% Research 12% Instruction
February 2018

NARRATIVE STATEMENT

My research goals through this time have focused on one central theme understanding the intersection between the individual and their food environment among rural and geographically isolated communities. The food environment encompasses the type of food stores in an individuals' neighborhood, the distance to those stores, how many different types of stores, and the type of food sold. To these ends I have become widely interested in understanding the nuances of food shopping behaviors, especially among vulnerable populations. My research enterprise is built around examining the distal and proximal determinants to food choice among rural communities, with a focus on Supplemental Nutrition Assistance Program (SNAP) households and adolescents. Through primary data collection and secondary data analyses I have established an expertise with measurement of the food environment along with understanding how the food environment influences food store choice and dietary patterns. My accomplishments to date can be seen with the ability to secure funding through extramural competitive grants but also through key collaborations with experts across universities. I have been accepted to participate in two multi-state research projects and anticipate utilizing hatch funds to further my research enterprise. I have been enthused by the high level of graduate student mentoring taken place in the past year and anticipate several students led publications resulting from this mentorship.

EDUCATION

BS Dietetics – 1998 Bradley University

MPH – 2000 Boston University

PhD – 2010 University of North Carolina Chapel Hill (Intervention and Epidemiology Minor)

EXTRAMURAL RESEARCH

New

Gustafson A (PI), Cody V, Ziliak J. United States Department of Agriculture – Economic Research Service ERS. SNAP Adequacy in Households with Adolescents.

Total Amount: \$20,000

Role: Principal Investigator (3/1/2018 – 8/31/2018)

Percent Time on Grant (FTE): 20%

Gustafson A (PI), Hege A, Houlihan J, Stephenson T. United States Department of Agriculture - Higher Education Challenge Grant NIFA-CGP-005716. The Obesity Food Insecurity Paradox: Educating and empowering a diverse undergraduate student population through innovative curriculum and experiential learning opportunities

Total Amount: \$138,150

Role: Principal Investigator (10/1/2016-9/30/2019)

Percent Time on Grant (FTE): 13%

Gustafson A(PI), Jilcott-Pitts S, Mullins J, Bush H, Wall-Basset E, Babatunde T, Vail A. United States Department of Agriculture - Afri Childhood Obesity Prevention grant (Integrated Standard Grant submission). Smart Shopping - Food shopping intervention among adolescents. 2015-07954

Total Amount: \$746,827

Role: Principal Investigator (3/1/2016-2/28/2020)

Percent Time on Grant (FTE): 25%

Sandberg T (PI), Mullins J, **Gustafson A**. Farms to Food Banks Capacity-Building Project, Kentucky Association of Food Banks. USDA – Nifa

Total Amount: \$400,000

Role: Co-Investigator (1/30/2018 – 2/1/2020)

Percent Time on Grant (FTE): 5%

Continuing

Vail A (PI), Mullins J, Kurzynkse J, Bastin S, Peritore N, McGladrey M, Aull M, **Gustafson A**, Stephenson T, Brewer D, Bradley A, Cardarelli K, Carman A, Davis A, Hance R, Johnson G, Mineer S, Nuetzman C, Smith CK, Wilson E, Webber K. Centers for Disease Control and Prevention - Programs to Reduce Obesity in High Obesity Areas. DP-14-1416

Total Amount Awarded: \$2.8 million

Role: Co-Principal Investigator (10/1/2014-9/30/2018)

Percent Time on Grant (FTE): 15%

Other Research

New

Gustafson A (PI), Hege A. Examining the impact of in-store marketing and product placement to reduce unhealthy purchases among low-income caregivers - Hatch Funds/Multistate project NC-1196

Total Amount Requested: \$30,000

Role: Principal Investigator (3/21/2017 - 9/30/2021)

Percent Time on Grant (FTE): MATCH FUNDS

Completed Research

United States Department of Agriculture -Economic Research Service [FoodAps Data]

University of Kentucky Center for Poverty Research. Neighborhood Disadvantage, Food Store Choice and Purchasing Habits association with dietary intake among SNAP and SNAP-eligible households - \$40,000. 5/7/14-5/6/16

Role: Principal Investigator

The goal of this grant is to examine the multi-level influences of food environment, neighborhood disadvantage on store choice, purchasing habits and the interaction on key dietary outcomes.

National Institute of Health R24 Community Based Participatory Research Planning Grant – National Institute Minority Health and Disparities. Appalachians Together Restoring the Eating Environment (Appal-TREE) - \$750,000.

5/15/2013 – 5/14/2015

Role: Co-Investigator

The goal of this grant is to development community resources aimed at improving access and availability to healthy food within the Appalachian region.

United States Department of Agriculture Seed Grant AFRI Adolescent and parent food activity patterns as drivers in dietary intake - \$150,000.

1/1/2013 – 12/31/2014

Role: Principal Investigator

The goal of this grant is to understand how adolescents, peers, and parents interact with each other in regards to food purchasing and travel patterns which influence dietary intake.

PUBLICATIONS

*student paper

+ manuscript resulted from grant

Gustafson A, Jilcott Pitts S, Gillespie R, Ford H, McDonald J, Connelly P, Mullins J. Direct effects of the home, school, and consumer food environments on the association between food purchasing patterns and dietary intake among rural adolescents in Kentucky and North Carolina, 2017. *International Journal Environmental Rural Public Health* [accepted for publication October 2017]

Gustafson A, McGladrey M, Webber K, Butterworth B, Liu E, Peritore N, Vail A. Examining Key Stakeholder and Community Residents' Understanding of Environmental Influences to Inform Place-Based Interventions to Reduce Obesity in Rural Communities, Kentucky 2015. *Journal Rural Health* July 7, 2017

Dewitt E*, Stephenson T, Webber K, **Gustafson A**. Community-Based Marketing Campaign at Farmers' Markets as a way to Encourage Fruit and Vegetable Purchases Among Rural Obese Counties, Kentucky, 2015-2016. *Journal Preventing Chronic Disease* 2017

Gustafson A. Shopping pattern and food purchase difference among Supplemental Nutrition Assistance Program (SNAP) households and Non-Supplemental Nutrition Assistance Program households in the United States. *Preventive Medicine Reports* 2017

Liu E*, Stephenson T, Houlihan J, **Gustafson A**. Marketing Strategies to Encourage Rural Residents of High-Obesity Counties to Buy Fruits and Vegetables in Grocery Stores. *Journal Preventing Chronic Disease* 2017 v.4 October 12, 2017

Byker Shanks C, Jilcott-Pitts S, **Gustafson A**. Development and validation of a farmers' market audit tool in rural and urban communities. *Journal of Health Promotion Practice* 2015 Nov;16(6): 859-66 Impact Factor .55

Gustafson A, Putnam N, Adams I, Christian J, Spees C, Taylor C. Family Meals and neighborhood food resources influence on intake of sugar-sweetened beverages and added sugars among parents and adolescents in rural communities. *Journal of Community Medicine & Health Education* 2014 4:300. doi: 10.4172/2161-0711.1000300

DeMarco M, **Gustafson A**, Gizlice Z, Ammerman A. Locally-Grown Fruit and Vegetable Purchasing Habits the Association with Children's Diet. *Journal of Hunger and Environmental Nutrition* 2014 8:372-387

Jilcott-Pitts S, **Gustafson A**, Keyserling T, Rafferty A, Ammerman A. Barriers and Motivators for farmers' market shopping among rural communities. *Nutrition Journal* 2014 Jan 9;13:1 PMC3896848

Sorge K*, **Gustafson A**. Proximity to Convenience Stores and Dietary Intake among Supplemental Nutrition Assistance Program Participants in Fayette Co, Kentucky, 2010-2011. *Journal of Community Medicine and Health* 2013 Oct 9; 3:241

Gustafson A, Perkins S, Lewis S, Buckner E, Mullins, J, Vail A. Association between the retail food environment, neighborhood deprivation, and county-level dietary outcomes among Supplemental Nutrition Assistance Program – Education (SNAP-Ed) recipients in Kentucky, 2010-2011. *Journal of Hunger and Environmental Nutrition* 2013 8:362-377

Gustafson A, Lewis S, Perkins S, Wilson C, Buckner E, Vail A. Neighborhood and Consumer Food Environment is associated with dietary intake among Supplemental Nutrition Assistance Program (SNAP) participants in Fayette County, Kentucky. *Public Health Nutrition* 2013 Jul 16(7):1229-37

Gustafson A, Jilcott-Pitts S, Lewis S, Moore K, Food venue choice, consumer food environment, but not food venue availability within daily travel patterns are associated with dietary intake among adults, Lexington Kentucky 2011 *Nutrition Journal* Jan 29;12:17

Samuel-Hodge C, Garcia B, Johnston L, Gizlice Z, Ni A, Cai J, Kraschnewski J, **Gustafson A**, Norwood A, Glasgow R, Gold A, Keyserling T. Translation of a Behavioral Weight Loss Intervention for Mid-life, Low-Income Women in Local Health Departments, *Obesity*(Silver Spring). 2013 Feb 14

Lucan S, **Gustafson A**, Jilcott-Pitt S, The Concept of “rural food deserts” is still meaningful. *Childhood Obesity* 2012; Oct 8(5): 484-5

Gustafson A, Lewis S, Wilson C, Jilcott-Pitts S, Validation of food store environment secondary data source and the role of neighborhood deprivation in Appalachia, Kentucky. *BMC Public Health* 2012 Aug 22;12(1):688

Gustafson A, Jesse Jones-Smith, Sharkey J, Samuel-Hodge C, Cai J, Ammerman A. Food environment modifies intervention effect of fruit and vegetable serving change on low-income women, *Journal of Nutrition and Human Metabolism* Volume 2012;932653:1-8 PMC3270418

Samuel-Hodge C, Garcia B, Johnston L, **Gustafson A**, Gizlice Z, Kraschnewski J, Norwood A, Keyserling T. Rationale, Design, and Sample Characteristics of a Type 2 Translation Randomized Controlled Trial to Assess a Weight Loss Intervention for Low Income Women: The Weight-Wise II Program, *Contemporary Clinical Trials* 2012 Jan 33(1):93-103

Gustafson A, Hankins S, Jilcott SB. Measurement of the consumer food environment: a systematic review of the evidence 2000-2011, *Journal of Community Health* 2012 Jan 37(4):897-911

Gustafson A, Sharkey J, Samuel-Hodge C, Jones-Smith J, Folds M, Cai J, Ammerman A. Perceived and Objective measures of the food store environment as a determinant in diet and weight among low-income women, *Public Health Nutrition* 2011 Jun 14(6):1032-8 PMC 21324229

Gustafson A, Samuel-Hodge C, Garcia B, Johnston L, Lindsley S, Bramble K, Khavlou O, Keyserling T, Gizlice Z. Cost-effectiveness of a WISEWOMAN weight loss control intervention among low-income midlife women, *Prev Medicine* 2009 Nov;49(5):390-5

Tate DF, Finkelstein EA, Khavjou O, **Gustafson A**. Cost Effectiveness of Internet Interventions: Review and Recommendations, *Annals Behavioral Medicine* 2009 Aug;38(1):40-5

Kraschnewski J, Gizlice Z, Samuel-Hodge C, **Gustafson A**, Keyserling T. Optimized Probability Sampling of Study Sites: An approach to improving generalizability in a type 2 translational study of an intensive behavioral weight loss intervention, *Preventing Chronic Disease* 2010 Jan;7(1):A10

PRESENTATIONS

* student

+ presentation resulted from grant

Dewitt E*, Stephenson T, **Gustafson A+**. Community-Based Marketing Campaign at Farmers' Markets as a way to Encourage Fruit and Vegetable Purchases Among Rural Obese Counties, Kentucky. Society Nutrition Education and Behavior [Poster Presentation July 2017] (CDC – Grant)

Gustafson A+, Jilcott-Pitts S, Mullins J. Multilevel determinants in adolescents food shopping choices. Society Nutrition Education and Behavior [Poster presentation July 2017] (USDA – Afri Grant)

Gustafson A+, Liu E, Dewitt E, Stephenson T, Vail A. In-store marketing efforts to improve the food store environment in high obese counties. International Society Behavioral Nutrition and Physical Activity [Oral presentation June 2017] (CDC Grant)

Gustafson A+, Liu E, Bush H. Concern about healthy eating among households with an adolescent in Appalachian Kentucky. Society Nutrition Education and Behavior [Poster presentation July 2016] (USDA - Afri Grant)

Gustafson A+, Qishan Wu, Saulnier M* Spees C, The S, Adams I, Bush H, Taylor C. Linking together the home food environment and dietary intake. International Society Behavioral Nutrition and Physical Activity [Poster presentation ISBNPA International Conference June 2015] (USDA Afri grant)

Gustafson A+, Allen J, Schoenberg N, Swanson M, Jones-Smith J. Neighborhood Food Environment as a determinant on store choice and purchasing choices among Supplemental Nutrition Assistance Program (SNAP) households and SNAP eligible but not participating households International Society Behavioral Nutrition and Physical Activity [Poster presentation ISBNPA International Conference June 2015] (USDA - ERS FoodAps Grant)

SERVICE

College of Agriculture, Food, and Environment (CAFE)

- Faculty Council 2017-2019
- Promotion and Tenure Committee 2017
- Outside examiner PhD candidate Department of Kinesiology- Christine Johnson November 2015
- Committee Member PhD Candidate Gatton School of Business and Economics – Cody Vaughn 2017
- Chair 7 graduate students MS
- Outside examiner PhD candidate College of Education – Jamie Marie Miller 2017
- Research Associate Food Systems Innovation Center
- Faculty member Sustainable Agriculture Food Systems working group

Grant Review Panel

- USDA Delta ARS review panel - Obesity Prevention September 2015

Journal contributions

- Reviewer *Journal Academy Nutrition and Dietetics*
- Reviewer *Journal American Journal Health Promotion*
- Adjunct reviewer – *Social Science Medicine, Annals Behavioral Medicine, BMC Public Health, Public Health Nutrition, Annals Family Medicine, Preventive Medicine, Journal Public Health and Management, American Journal Preventive Medicine, Journal Nutrition Education and Behavior*

Selected Committees

- Women's Executive Leadership Council (WELD)