

## **Carmen Byker Shanks, PhD, RDN**

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### **Education**

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- 2011 PhD Virginia Tech, Blacksburg, VA**  
Specialization: Nutrition  
Dissertation: Dietary Research within the Context of a Community-Based Food System
- 2009 BS Virginia Tech, Blacksburg, VA**  
Major in Nutrition (BS/MS to PhD Track)  
Concentration: Nonprofit Organizational Leadership
- 2017 RDN Montana State University, Bozeman, MT**  
Montana Dietetic Internship

### **Professional Experience**

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**Principal Research Scientist**, Gretchen Swanson Center for Nutrition  
Omaha, NE | May 2021 – Present

**Research Associate Faculty**, Department of Health and Human Development, Montana State University  
Bozeman, MT | 2021 – Present

**Associate Professor**, Food and Nutrition and Sustainable Food Systems, Department of Health and Human Development, Montana State University  
Bozeman, MT | 2017 – 2021

**Director**, Food and Health Lab, Montana State University  
Bozeman, MT | 2013 – 2021

**Assistant Professor**, Food and Nutrition and Sustainable Food Systems, Department of Health and Human Development, Montana State University  
Bozeman, MT | 2011 – 2017

**Graduate Teaching Assistant**, Department of Human Nutrition, Foods and Exercise, Virginia Tech  
Blacksburg, VA | 2009 – 2011

**Graduate Research Assistant**, Department of Human Nutrition, Foods and Exercise, Virginia Tech  
Blacksburg, VA | 2009 – 2011

### **Grants and Contracts – Current\***

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- 2019-2024 **United States Department of Agriculture GusNIP, Gretchen Swanson Center for Nutrition. Nutrition Incentive Program Training, Technical Assistance, Evaluation and Information Center (NTAE)**
- Role: Associate Project Director for Reporting and Evaluation 2021-Present
  - Role: Consultant 2020-2021

- 2021-2022      **American Diabetes Association**
  - Evaluation of the ADA’s What Can I Eat? Program
  - Role: Primary Investigator
  
- 2021-2022      **No Kid Hungry**
  - Policy, Systems and Environmental Strategies to End Child Hunger in Rural Communities
  - Role: Project Director
  
- 2021-2022      **Montana No Kid Hungry**
  - MT-NEWFAM: Montana New Family Food Assistance Project
  - Role: Project Director
  
- 2019-2022      **Cooking Matters**
  - Data and Evaluation Consulting
  - Role: Scientist
  
- 2020-2023      **United States Department of Agriculture Team Nutrition, Montana Office of Public Instruction**
  - Montana Team Nutrition Training Grant
  - Role: Social Scientist

### **Grants and Contracts – Past**

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- 2018-2021      **United States Department of Agriculture Team Nutrition, Montana Office of Public Instruction**
  - Montana Team Nutrition Training Grant
  - Role: Co-PI
  
- 2018-2021      **NIH NIGMS Center for American Indian and Rural Health Equity (5P20GM104417)**
  - The UnProcessed Pantry Project
  - Role: Project Leader
  
- 2019-2020      **Montana State University – Office of the Provost – Academic Technology and Outreach**
  - Sustainable Food Systems Master of Science Online Conversion
  - Role: PI
  
- 2017-2020      **USDA Higher Education Challenge Grant (2017-06105)**
  - Advancing an Inclusive Food Systems Curriculum based on a Signature Pedagogy
  - Role: Co-PI
  
- 2017-2020      **United States Department of Agriculture Team Nutrition, Montana Office of Public Instruction**
  - Montana Team Nutrition Training Grant
  - Role: Co-PI
  
- 2016-2019      **United States Department of Agriculture Team Nutrition, Montana Office of Public Instruction**
  - Montana Team Nutrition
  - Role: Co-PI

- 2018 **Feeding America and Share Our Strength**
- Examining Food Insecurity Among Families Living in Rural America: A Qualitative Study
  - Role: Co-I
- 2018 **NIH NIGMS Montana IDeA Network for Biomedical Research Excellence (P20GM103474)**
- Advancing Healthy and Sustainable Diets for All through a Social Media and Nutrition Education Intervention on the Flathead Reservation of the Confederated Salish & Kootenai Tribes
  - Role: Project Advisor
- 2017-2018 **NIH NIGMS Center for American Indian and Rural Health Equity (5P20GM104417)**
- Promoting Dietary Quality at FDPIR Through a Fruit and Vegetable Intervention
  - Role: Project Leader
- 2015-2018 **The Cornell Center for Behavioral Economics in Child Nutrition Programs Small Grants Program**
- Building Long-Term Strategies for Student Involvement in Smarter Lunchroom Design
  - Role: PI
- 2015-2018 **USDA Western SARE**
- Examining, Optimizing, and Building Capacity for Montana's Local Beef to School Supply Chain
  - Role: PI
- 2016-2017 **NIH NIGMS Montana IDeA Network for Biomedical Research Excellence (P20GM103474)**
- Enhancing Dietary Quality through a Food Based Intervention
  - Role: MSU Subaward Multi-PI
- 2016-2017 **Scholarship and Creativity Grant**
- Meeting the Food Waste Challenge: Assessment of Household Food Waste Behaviors in Low-Income Families in Montana and Development of a Family Toolkit
  - Role: Multi-PI
- 2016 **NIH NIGMS Center for American Indian and Rural Health Equity (5P20GM104417)**
- Towards Healthy Food Environments and Healthy Communities: Disseminating Research Results and Building Research Capacity
  - Role: Multi-PI
- 2016 **Human Ecology Learning and Problem Solving (HELPS) Lab Grant**
- Understanding Family Knowledge, Attitudes, and Behaviors Towards Food Waste
  - Role: Multi-PI
- 2015-2016 **NIH NIGMS Montana IDeA Network for Biomedical Research Excellence (NIH NIGMS P20GM103474)**
- Measuring Food Environments, Dietary Quality, and Food Security on the Flathead Indian Reservation Towards Mitigating Diet-Related Chronic Disease
  - Role: Multi-PI

- 2015-2016      **Campus Sustainability Advisory Council Grant, Montana State University**
- Strategies to Reduce Food Waste at MSU
  - Role: Supervisor
- 2014-2015      **NIH NIGMS Montana IDeA Network for Biomedical Research Excellence (NIH NIGMS P20GM103474)**
- Initiating Partnerships and Projects of Food and Nutrition in Montana
  - Role: Co-PI
- 2014-2015      **USDA Food Distribution Program Nutrition Education (FDPNE) – Confederated Salish and Kootenai Tribes**
- Maximizing Nutritious Choices within the Food Distribution Program on Indian Reservations (FDPIR)
  - Role: Project Director
- 2014-2015      **Montana Department of Public Health and Human Services**
- Early Child Nutrition and Physical Activity Training
  - Role: Lead Contractor
- 2014-2015      **Montana Department of Public Health and Human Services**
- School Staff Policy Plan
  - Role: Lead Contractor
- 2013-2015      **The Cornell Center for Behavioral Economics in Child Nutrition Programs Small Grants Program**
- The Effect of School Cafeteria Noise on Student Food Consumption and Waste
  - Role: Consultant
- 2012-2015      **Salish Kootenai College USDA Tribal College Initiative Grants Program**
- Curriculum Sustainability Assessment
  - Role: MSU Co-PI
- 2014              **The Cornell Center for Behavioral Economics in Child Nutrition Programs Small Grants Program**
- Improving Fruit and Vegetable Selection in High School Lunches through Student Involvement in Smarter Lunchroom Design
  - Role: PI
- 2014              **NIH NIGMS Montana IDeA Network for Biomedical Research Excellence (NIH NIGMS P20GM103474)**
- Food and Health Disparities Integrative Lab Capacity Building
  - Role: Co-PI
- 2014              **EHHD Seed Grant**
- Assessing Dietary Quality of Foods Offered in the Food Distribution Program on Indian Reservations using the United States Department of Agriculture Healthy Eating Index 2010
  - Role: Co-PI
- 2013-2014      **MSU Instructional Innovation Grant**
- Campus to Community through MSU Extension
  - Role: Co-PI

- 2013 **Montana Department of Public Health and Human Services**
- Development of Montana Physical Activity and Nutrition Guidelines for Early Childhood Programs
  - Role: Lead Contractor
- 2012-2013 **MSU Scholarship and Creativity Grants**
- A Critique of Dietary Guidelines Using a Sustainable Food Systems Lens: Generating a Practical Guide for Dietary Professionals
  - Role: PI
- 2012-2013 **AARP Foundation**
- CAAAANS: Cultivating Accessible, Affordable, Adequate, Appropriate Nutrition for Seniors (2012-2013)
  - Role: Project Director
- 2012 **MSU Health and Human Development Internal Award**
- KidsPack Program: Evaluating Effectiveness of an Emergency Food Program for Children
  - Role: Co-PI
- 2012 **Faculty International Research and Program Development Fund**
- Health Equity and Community Engagement in Cuba
  - Role: PI
- 2010-2012 **USDA Farmers Market Promotion Program**
- Engaging a Broader Customer Base: Students and SNAP recipients at the Blacksburg Farmers Market, with New EBT Project
  - Role: Program Assistant
- 2010 **United Health Heroes, Youth Service America**
- Food Friends
  - Role: Program Director
- 2009 **Fralin Obesity Grant Program, Fralin Life Science Institute, Virginia Tech**
- Fresh Produce, Fresh Start
  - Role: Program Director
- 2009 **Social Entrepreneur Grant Program, Center for Student Engagement and Community Partnerships, Virginia Tech**
- Fresh Produce, Fresh Start
  - Role: Program Director

## Peer-Reviewed Publications

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2022

1. **Byker Shanks, C.**, Houghtaling, B., Shanks, J., Grocke-Dewey, M., Webber, E., Andress, L., Hardison-Moody, A., Patton-Lopez, M., & Haynes-Maslow L. Disparities in dietary practices during the COVID-19 pandemic by food security status. *Preventive Medicine Reports*. 2022;18:101830.
2. Ahmed, S., Warne, T., Stewart, A., **Byker Shanks, C.**, & Dupuis, V. Role of wild food environments for cultural identity, food security, and dietary quality in a rural American state. *Frontiers in Sustainable Food Systems*. 2022;6:774701.

3. Houghtaling, B., Balis, L., Minaker, L., Khshaifaty, K., Morgan, R., & **Byker Shanks, C.**, A systematic review of trucking food, physical activity, and tobacco environments and tractor-trailer drivers' related patterns and practices in the United States and Canada, 1993-2021. *Preventive Medicine Reports*. 2022;26:101760.
4. **Byker Shanks, C.**, Izumi, C., Parks, C.A., & Yaroch, A.L. Measurement of fruit and vegetable intake incorporating a diversity, equity, and inclusion lens. Comment on: Di Noia, J.; Gellermann, W. Use of the spectroscopy-based Veggie Meter® to objectively assess fruit and vegetable intake in low-income adults. *Nutrients*. 2022 Feb;14(4):811.
5. Ebel, R., & **Byker Shanks, C.** Short-term impacts of COVID-19 public health regulation of consumer food purchases: A case study from a grocery store in Montana. *Frontiers in Sustainable Food Systems*. 2022 Feb;1:708504.
6. **Byker Shanks, C.**, Parks, C., Izumi, B., Andress, L., & Yaroch, A.L. The need to incorporate diversity, equity, and inclusion: Reflections from a national initiative measuring fruit and vegetable intake. *Journal of the Academy of Nutrition and Dietetics*. 2022; S2212-2672(22)00042-9.
7. **Byker Shanks, C.**, Vanderwood, K., Grocke, M., Johnson, N., Larison, L., Wytcherley, B., & Yaroch, A.L. The UnProcessed Pantry Project (UP3): A community based intervention aimed to reduce ultra-processed food intake among food pantry clients. *Family and Community Health*. 2022, Jan/Mar;45(1):23-33.

## 2021

8. Nugent, N.B., **Byker Shanks, C.**, Seligman, H.K., Fricke, H., Parks, C.A., Stotz, S., & Yaroch A.L. Accelerating evaluation of financial incentives for fruits and vegetables: A case for shared measures. *International Journal of Environmental Research and Public Health*. 2021 Nov 19;18(22):12140.
9. Larison, L., **Byker Shanks, C.**, Webber, E., Routh, B., & Ahmed, S. The influence of the COVID-19 pandemic on the food supply in the emergency food system: A case study at two food pantries. *Current Developments in Nutrition*. 2021 Oct;5(10):nzab115.
10. Ahmed, S., Stewart, A., Smith, E., Warne, T., & **Byker Shanks, C.** Consumer perceptions, behaviors, and knowledge of food waste in a rural American state. *Frontiers in Sustainable Food Systems*. 2021, Sep;5: 330.
11. **Byker Shanks, C.**, Milodragovich, A., Smith, E.M., Izumi, B., Stephens, L., & Ahmed, S. Preference for fruits and vegetables is linked to plate waste among preschool children. *Social Science Medicine - Population Health*. 2021 Sep;15:100908.
12. Grocke-Dewey, M., Hardison-Moody, A., Haynes-Maslow, L., Maras, S., Webber, E., Andress, L., Houghtaling, B., Patton-Lopez, M., Shanks, J., & **Byker Shanks, C.** Examining the relationship between physical activity and mental health during the COVID-19 pandemic across five US States. *Preventive Medicine Reports*. 2021 Aug 26;101537.
13. Smith, M., Rink, E., Held, S., **Byker Shanks, C.**, & Miles, M.P. The effects of foods available through the Food Distribution Program on Indian Reservations (FDPIR) on inflammation response, appetite, and energy intake. *Public Health Nutrition*. 2021 Jul;24(10):3037-3048.
14. Velázquez-Salazar, M., Scalzo, G., & **Byker Shanks, C.** Colored heirloom corn as a public good: The case in Tlaxcala, Mexico. *Sustainability*. 2021 Jan;13(3):1507

## 2020

15. **Byker Shanks, C.**, Calloway, E., Parks, C., & Yaroch, A. Scaling up measurement to confront food insecurity in the United States. *Translational Behavioral Medicine*. 2020 Dec;10(6):1382-1389.
16. **Byker Shanks, C.**, Webber, E., Larison, L., & Wytcherley, B. The translational implications of applying multiple measures to evaluate the nutrient quality of the food supply: A case study of two food pantries in Montana. *Translational Behavioral Medicine*. 2020 Dec;10(6):1367-1381.
17. Calloway, E.E., Parks, C.A., **Byker Shanks, C.**, Bowen, D.J., & Yaroch, A.L. A special issue addressing healthful food access and food insecurity: risk factors, behavioral variables, interventions, and measurement. *Translational Behavioral Medicine*. 2020 Dec;10(6):1249-1254.
18. **Byker Shanks, C.**, Ahmed, S., Dupuis, V., Tryon, M., Running Crane, M., Houghtaling, B., & Smith, T. Dietary quality varies among adults on the Flathead Nation of the Confederated Salish and Kootenai

- Tribes in Montana. *Journal of Community Health*. 2020.
19. Hingle, M., **Byker Shanks, C.**, Parks, C., Prickitt, J., Rhee, K.E., Wright, J., Hiller-Venegas, S., & Yaroch, A.L. Examining equitable online federal food assistance during the SARS-CoV-2: A case study in two regions. *Current Developments in Nutrition*. 2020 Oct;4(10):nzaa154.
  20. **Byker Shanks, C.**, Ahmed, S., Dupuis, V., Houghtaling, B., Running Crane, M.A., Tryon, M., & Pierre, M. Perceptions of food environments and nutrition among residents of the Flathead Indian Reservation. *BMC Public Health*. 2020 Dec;20(1):1-5.
  21. Ebel, R., Ahmed, S., Valley, W., Jordan, N., Grossman, J., **Byker Shanks, C.**, Stein, M., Rogers, M., & Dring, C. Co-design of adaptable learning outcomes for sustainable food systems undergraduate education. *Frontiers in Sustainable Food Systems*. 2020 Sep 29;4:170.
  22. Watson, Z.A., Miles, M.P., **Byker Shanks, C.**, & Rink, E. Sleep, physical activity, waist circumference and diet as factors that influence health for reproductive age women in northern Greenland. *Global Health Promotion*. 2020.
  23. Haynes-Maslow, L., Hardison-Moody, A., Patton-Lopez, M., Prewitt, E., **Byker Shanks, C.**, Andress, L., Osborne, I., & Jilcott Pitts, S. Examining rural food-insecure families' perceptions of the Supplemental Nutrition Assistance Program: A qualitative study. *International Journal of Environmental Research and Public Health*. 2020 Jan;17(17):6390.
  24. Andress, L., **Byker Shanks, C.**, Hardison Moody, A., Prewitt, T.E., Kinder, P., & Haynes-Maslow L. The curated food system: A limiting aspirational vision of what constitutes "good" food. *International Journal of Environmental Research and Public Health*. 2020 Jan;17(17):6157.
  25. **Byker Shanks, C.**, Hingle, M., Parks, C., & Yaroch, A.L. The COVID-19 pandemic: A watershed moment to strengthen food security across the United States food system. *American Journal of Public Health*. 2020 Aug;110(8):1133-1134.
  26. Ahmed, S., Dupuis, V., Tryon, M., Running Crane, M., Garvin, T., Pierre, M., & **Byker Shanks C.** Intended and unintended consequences of a community-based fresh fruit and vegetable dietary intervention on the Flathead Reservation of the Confederated Salish and Kootenai Tribes. *Frontiers in Public Health*. 2020 Aug;8:331.
  27. Izumi, B., Akamatsu, R., **Byker Shanks, C.**, & Fujisaki, K. An ethnographic study exploring factors that minimize lunch waste in Tokyo elementary schools. *Public Health Nutrition*. 2020 Apr;23(6):1142-1151.
  28. Chen, S., Kraak, V.I., Price, T.T., Love, K., **Byker Shanks, C.**, & Serrano, E.L. Exploring food waste at a residential youth summer camp: A mixed-methods study. *Journal of Hunger and Environmental Nutrition*. 2020 Aug 19:1-4.
  29. **Byker Shanks, C.**, Bark, K., Stenberg, M., Gamble, J., Parks, C. Milk consumption and waste across five Montana high school lunch programs. *Journal of School Health*. 2020 Sep;90(9):718-723.

## 2019

30. Smith, E., Ahmed, S., Dupuis, V., Eggers, M., Pierre, M., Flagg, K., & **Byker Shanks, C.** Contribution of wild foods to diets, food security, and cultural values amidst climate change. *Journal of Agriculture, Food Systems, and Community Development*. 2019 Nov;9(B):191-214.
31. Warne, T., Ahmed, S., & **Byker Shanks, C.**, Miller P. Sustainability dimensions of a North American lentil system in a changing world. *Frontiers in Sustainable Food Systems*. 2019 Oct;3:88.
32. Zhao, C., Panizza, C., Fox, K., Boushey, C.J., **Byker Shanks, C.**, Ahmed, S., Chen, S., Serrano, E.L., Zee, J., Fialkowski, M.K., & Banna, J. Plate waste in schools: Barriers, motivators and perspectives of early adolescents in the United States. *Journal of Nutrition Education and Behavior*. 2019 Sep;51(8):967-975.
33. Ahmed, S., **Byker Shanks, C.**, Dupuis, V., & Pierre, M. Advancing Healthy and Sustainable Food Environments: The Flathead Reservation Case Study. *UNSCN Nutrition 44 (Food Environments: Where People Meet the Food System; United Nations Standing Committee on Nutrition)*. 2019 Oct;44:39-45.
34. **Byker Shanks, C.**, Weinmann, E., Holder, J., McCormick, M., Parks, C.A., Vanderwood, K., Coburn, C., Johnson, N.,\* & Yaroch, A.L. The UnProcessed Pantry Project framework to address nutrition in the emergency food system. *American Journal of Public Health*. 2019 Oct;109(10):1368-1370.
35. Ahmed, S., & **Byker Shanks, C.** Supporting Sustainable Development Goals through Sustainable Diets.

In: Filho, W.L. et al. *Encyclopedia of the UN Sustainable Development Goals. Good Health and Well-Being*. Springer Nature. 2019 Oct;44:38.

36. Johnston, R., Martin, J., **Byker Shanks, C.**, Finnie, S., & Giroux, M. Controlled sprouting in wheat increases quality and consumer acceptability of whole wheat bread. *Cereal Chemistry*. 2019 Sep;96(5):866-877.
37. Houghtaling, B., **Byker Shanks, C.**, Ahmed, S., & Smith, T. Resources lack as food environments become more rural: Development and implementation of an infant feeding resource tool (InFeed). *Journal of Hunger & Environmental Nutrition*. 2019 Mar;15(2):170-189.
38. Svisco, E., **Byker Shanks, C.**, Ahmed, S., & Bark, K. Variation of adolescent snack food choices and preferences along a continuum of processing levels: The case of apples. *Foods*. 2019 Feb;8(2):50.

#### 2018

39. Haynes-Maslow, L., Osborne, I.C., Jillcott Pitts, S.B., Sitaker, M., **Byker Shanks, C.**, Leone, L., Maldonado, A., McGuirt, J., Andress, L., Bailey-Davis, L., Baquero, B., Kolodinsky, J., Lo, B., Morgan, E., Ammerman, A.S., & Seguin, R. Rural corner store owners' perceptions of stocking healthier foods in response to proposed changes to the United States' Supplemental Nutrition Assistance Program retailer rule. *Food Policy*. 2018 Dec;81:58-66.
40. Haynes-Maslow, L., Andress, L., Pitts, S.J., Osborne, I., Baquero, B., Bailey-Davis, L., **Byker Shanks, C.**, Houghtaling, B., Jolodinsky, J., Lo, B., Morgan, E., Piltch, E., Prewitt, E., Senguin, R., & Ammerman, A. Arguments used in public comments to support or oppose the USDA's minimum stocking requirements in 2016: A content analysis. *Journal of the Academy of Nutrition and Dietetics*. 2018 Sep;118(9):1664-1672.
41. Ahmed, S., **Byker Shanks, C.**, Smith, T., & Shanks, J. Fruit and vegetable desirability is lower in more rural built food environments of Montana, USA using the Produce Desirability (ProDes) Tool. *Food Security*. 2018 Feb;10(1):169-182.
42. Jenkins, M., **Byker Shanks, C.**, Brouwer, R., & Houghtaling, B. Factors affecting farmers' willingness and ability to adopt and retain vitamin A-rich varieties of orange-fleshed sweet potato in Mozambique. *Food Security*. 2018 Dec;10(6):1501-1519.
43. Houghtaling, B., **Byker Shanks, C.**, Ahmed, S., & Rink, E. Grandmother and health care professional breastfeeding perspectives provide opportunities for health promotion in an American Indian community. *Social Science & Medicine*. 2018 Jul;208:80-88.

#### 2017

44. Ahmed, S., & **Byker Shanks, C.** Quality of vegetables based on total phenolic scores is lower in more rural counties of Montana. *International Journal of Environmental Research and Public Health*. 2017 Aug;14(8):924.
45. **Byker Shanks, C.**, Banna, J., & Serrano, E. Food waste in the National School Lunch Program 1978-2015: A systematic review. *Journal of the Academy of Nutrition and Dietetics*. 2017 Nov;117(11):1792-1807.
46. Watson, Z.A., **Byker Shanks, C.**, Miles, M.P., & Rink, E. The grocery store food environment in northern Greenland and its implications for the health of reproductive age women. *Journal of Community Health*. 2017 Feb;43(1):175-185.
47. **Byker Shanks, C.** Promoting food pantry environments that encourage nutritious eating behaviors. *Journal of the Academy of Nutrition and Dietetics*. 2017 Apr;117(4):523-525.
48. Houghtaling, B., **Byker Shanks, C.**, & Jenkins, M. Factors associated with increased likelihood of breastfeeding among participants of the USDA's Food and Nutrition Service Special Supplemental Nutrition Program for Women, Infants, and Children (WIC): A systematic review of literature. *Journal of Human Lactation*. 2017 Feb;33(1):83-97.
49. Shanks, J., Izumi, B., Sun, C., Martin, A., & **Byker Shanks, C.** Teaching undergraduate students to visualize and communicate public health data with infographics. *Frontiers in Public Health*. 2017 Nov;5:315.



## 2016

50. **Byker Shanks, C.**, Smith, T., Ahmed, S., & Hunts, H. Assessing foods offered in the Food Distribution Program on Indian Reservations (FDPIR) using healthy eating index-2010. *Public Health Nutrition*. 2016 May;19(7):1315-1326.
51. Harmon, A.H., Landolfi, K., **Byker Shanks, C.**, Hansen, L., Iverson, L., & Anacker, M. Food insecurity experience: Building empathy in future food and nutrition professionals. *Journal of Nutrition Education and Behavior*. 2016 Mar;49(3):218-227.
52. **Byker Shanks, C.**, Haack, S., Tarabochia, D., Bates, K., & Christenson, L. Factors influencing food choices among older adults in the rural western USA. *Journal of Community Health*. 2016 Jun;42(3):511-521.
53. **Byker Shanks, C.**, & Harden, S.. A Reach, Effectiveness, Adoption, Implementation, Maintenance (RE-AIM) evaluation of weekend backpack food assistance programs. *American Journal of Health Promotion*. 2016 Sep;30(7):511-520.
54. Stephens, L., **Byker Shanks, C.**, Roth, A., & Bark, K. Montana cook fresh pilot workshop: A K-12 school nutrition professional training to incorporate whole foods in school meals. *The Journal of Child Nutrition & Management*. 2016;40(1):n1.
55. Pinard, C.A., Bertmann, F.M.W., **Byker Shanks, C.**, Schober, D.J., Smith, T.M., Carpenter, L.C., & Yaroch, A.L. What factors influence SNAP participation? Literature reflecting enrollment in food assistance programs from a social and behavioral science perspective. *Journal of Hunger and Environmental Nutrition*. 2016 Apr;12(2):151-168.
56. Pinard, C.A., **Byker Shanks, C.**, Harden, S., & Yaroch, A. An integrative literature review of small food store research across urban and rural communities in the U.S. *Journal of Preventive Medicine*. 2016 Jun;3:324-332.

## 2015

57. **Byker Shanks, C.**, Ahmed, S., Smith, T., Houghtaling, B., Jenkins, M., Margetts, M., Schultz, D., & Stephens, L. Availability, price, and quality of fruits and vegetables in 12 rural Montana counties, 2014. *Preventing Chronic Disease*. 2015;12:150-158.
58. Stephens, L., & **Byker Shanks, C.** K-12 school food service staff training interventions: A review of the literature. *Journal of School Health*. 2015;85(12):852-32.
59. Bates, K., & **Byker Shanks, C.** Placement of a take-out container during meal influences energy intake. *Eating Behaviors*. 2015 Dec;19:181-183.
60. **Byker Shanks, C.**, Jilcott Pitts, S., & Gustafson, A. Development and validation of a farmers' market audit tool in rural and urban communities. *Health Promotion Practice*. 2015 Nov;16:859-866.
61. Schultz, D., **Byker Shanks, C.**, & Houghtaling, B. The impact of 2009 WIC food package revisions on participants: A systematic review. *Journal of the Academy of Nutrition and Dietetics*. 2015 Nov;115(11):1832-1846.
62. Jenkins, M., **Byker Shanks, C.**, & Houghtaling, B. Orange-fleshed sweet potato: Successes and remaining challenges of the introduction of a nutritionally superior staple crop in Mozambique. *Food and Nutrition Bulletin*. 2015 Sep;36(3):327-53.
63. Stephens, L., **Byker Shanks, C.**, Roth, A., & Bark, K. Perspectives and future directions from Montana school food service managers and key stakeholders about fresh, whole foods in updated national school lunch program (NSLP) and school breakfast program (SBP) guidelines. *The Journal of Child Nutrition & Management*. 2015;39(1):1-16.
64. Calancie, L., Leeman, J., Jilcott Pitts, S., Kettel-Kahn, L., Evenson, K., Fleischhacker, S., Evenson, K., Schreiner, M., **Byker, C.**, Owens, C., McGuirt, J., Barnidge, E., Dean, W., Johnson, D., Kolodinsky, J., Pitch, E., Pinard, C., Quinn, E., Whestone, L., & Ammerman, A. Nutrition-related policy and environmental strategies to prevent obesity in rural communities: A systematic review of the literature. *Preventing Chronic Disease*. 2015;12:140540.
65. Smith, T., Pinard, C., **Byker, C.**, Yaroch, A., & Blanck, H. Fruit and vegetables as a healthier snack throughout the day among families with older children: Findings from a survey of parent-child dyads. *Eating Behaviors*. 2015 Apr;17:136-139.

## 2014

66. **Byker, C.**, & Smith, T. Food assistance programs for children afford mixed dietary quality based on HEI-2010. *Nutrition Research*. 2014 Jan;34(1):35-40.
67. **Byker, C.**, Farris, A., Marcenelle, M., Davis, G., & Serrano, E. Food waste in a school nutrition program after implementation of new NSLP guidelines. *Journal of Nutrition Education and Behavior*. 2014 Sep;46(5):406-411.
68. Johnson, D., Quinn, E., Sitaker, M., Ammerman, A., **Byker, C.**, Dean, W., Fleishhacker, S., Kolodinsky, J., Pinard, C., Jilcott Pitts, S.B., & Sharkey, J.R. Developing an agenda for research about policies to improve access to healthy foods in rural communities: A concept mapping study. *BMC Public Health*. 2014 Dec;14(1):1-2.
69. **Byker, C.**, Pinard, C., Clark, S., & Serrano, E. A Head Start fruit and vegetable delivery pilot program increased fruit and vegetable intake among families. *Journal of Human Sciences and Extension*. 2014 Feb;2(1):37-50.
70. Haack, S., & **Byker, C.** Recent population adherence to and knowledge of United States federal dietary guidance 1992-2013: A systematic review. *Nutrition Reviews*. 2014 Oct;72(1):613-626.
71. Pinard, C., **Byker, C.**, Harden, S., Carpenter, L., Serrano, E., Schober, D., & Yaroch, A. Influences on food away from home feeding practices among english and spanish speaking parent-child dyads. *Journal of Child and Family Studies*. 2014 Jul;24(7):2099-2106.
72. Pinard, C., **Byker, C.**, Harmon, A., & Serrano, E. National chain restaurant practices supporting food sustainability. *Journal of Hunger and Environmental Nutrition*. 2014 Oct;9(4):535-545.
73. Jordan, N., Grossman, J., Lawrence, P., Harmon, A., Dyer, W., Maxwell, B., Cadieux, K.V., Galt, R., Rojas, A., **Byker, C.**, Ahmed, S., Kebreab, E., Singh, V., Michaels, T., & Tzenis, C. New curricula for undergraduate food systems education: A sustainable agriculture education perspective. *NACTA*. 2014 Dec;58(1-4):304.

## 2013

74. **Byker, C.**, Pinard, C., Yaroch, A., & Serrano, E. New NSLP guidelines: challenges and opportunities for nutrition education practitioners and researchers. *Journal of Nutrition Education and Behavior*. 2013 Nov;45(6):683-689.
75. **Byker, C.**, Misyak, S., Shanks, J., & Serrano, E. Do farmers' markets improve diet of participants using federal nutrition assistance programs? A literature review. *Journal of Extension*. 2013;51(6).
76. Clark, C., **Byker, C.**, Niewolny, K., & Helms, J. Framing an undergraduate minor through the civic agriculture and food systems curriculum. *NACTA Journal*. 2013 Jun;57(2):56-67.
77. Fleishhacker, S., Johnson, D., Quinn, E., Jilcott Pitts, S., **Byker, C.**, & Sharkey, J.R. Advancing rural food access policy research priorities: Process and potential of a trans-disciplinary working group. *Journal of Agriculture, Food Systems, and Community Development*. 2013 Sep;3(4):201-212.

## 2012

78. Yaroch, A. L., **Byker, C.**, Pinard, C.A., & Smith, T.M. Advances in methodologies for assessing dietary intake and physical activity in adolescents. *Adolescent Medicine: State of the Art Reviews*. 2012 Dec;23(3):610-630.
79. **Byker, C.**, Clark, S., Enoch, R.J., Montgomery, T., & Serrano, E. Heifer international alternative break: Sustainable dietary impacts. *Journal of Hunger and Environmental Nutrition*. 2012 Apr;7(2):122-136.
80. Niewolny, K., Grossman, J., **Byker, C.**, Helms, J., Clark, S., Cotton, J., & Jacobsen, K. Sustainable agriculture education and community engagement: the significance of community-university partnerships in the new agricultural paradigm. *Journal of Agriculture, Food Systems, and Community Development*. 2012;2(3).
81. Schroeder-Moreno, M., Clark, S., **Byker, C.**, & Zhao, X. Internationalizing sustainable agriculture education. *Journal of Agriculture, Food Systems, and Community Development*. 2012 May;2(3):55-68.
82. **Byker, C.**, Stack, M., Tendhar, C., Span, K., Awando, M., Golliher, S., Burge, P., & Moorefield-Lang, H. Building public health and community in a university town: motivational factors for shopping at a local farmers market by graduate students. *Public Knowledge Journal*. 2012;4(1).
83. **Byker, C.**, Shanks, J., Misyak, S., & Serrano, E. Characterizing farmers market shoppers: A literature

review. *Journal of Hunger and Environmental Nutrition*. 2012 Jan;7(1):38-52.

2010

84. **Byker, C.**, Rose, N., & Serrano, E. Motivators, challenges, and personal benefits of adults following a local food diet. *Journal of Agriculture, Food Systems, and Community Development*. 2010;1(1):125-137.

## Peer-Reviewed Conference Presentations (Selected)

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### International

1. Chen, S., Houghtaling, B., Fung, W., Oo, K., Wright, L., **Byker Shanks, C.** The emergency food system during COVID-19 and beyond. Session for Society of Nutrition Education and Behavior, August 2021. Online.
2. **Byker Shanks, C.** Association between food security and food skills education among Cooking Matters participants. Oral for Society of Nutrition Education and Behavior, August 2021. Online.
3. Groves, G., Stenberg, M., Bark, K., Roth, A., **Byker Shanks, C.** Montana offers innovative virtual school nutrition leadership institute during COVID-19, August 2021. Online.
4. **Byker Shanks, C.** Cooking Matters. Evaluation in the time of online programming. Dialogue Now for Society of Nutrition Education and Behavior, August 2020. Online.
5. **Byker Shanks, C.**, & Harden, S. The UnProcessed Pantry Project: A novel approach to improving dietary quality for low-income adults served by rural food pantries. Symposium for International Society of Behavioral Nutrition and Physical Activity, June 2019. Prague, Czech Republic.
6. **Byker Shanks, C.**, & Elnakib, S. Food waste in schools: How to effectively measure and reduce food waste in schools. Workshop for Society of Nutrition Education and Behavior, July 2018. Minneapolis, Minnesota.
7. **Byker Shanks, C.**, Ahmed, S., Shanks, J., Smith, T., & Houghtaling, B. Fruit and vegetable quality and desirability is lower in more rural food environments of Montana. Oral for International Society for Behavioral Nutrition and Physical Activity, June 2018. Hong Kong.
8. **Byker Shanks, C.**, Serrano, E., Banna, J., & Chen, S. Assessment of dietary quality through measurement of food waste among students at schools. Oral for International Society for Behavioral Nutrition and Physical Activity, June 2018. Hong Kong.
9. Izumi, B., **Byker Shanks, C.**, & Valley, W. Integrating community-based learning in nutrition and food systems courses. Teaching About Food Systems: Community of Practice II, June 2017. New York, New York.
10. **Byker Shanks C.** Visualizing complex food systems concepts with infographics. Session for Teaching About Food Systems: Creating a Community of Practice, June 2016. New York, New York.
11. Izumi, B., Peters, C., Pinero, D., & **Byker Shanks, C.** Nutrition panel: Sustainability and nutrition science: How do they intersect in the classroom? Panel for Teaching About Food Systems: Creating a Community of Practice, June 2016. New York, New York.
12. **Byker, C.** School cafeteria noise: A predictor of food waste? Poster for International Society for Behavioral Nutrition and Physical Activity, May 2014. San Diego, California.
13. Pinard, C., Bertmann, F., **Byker, C.**, Schober, D., Woodruff, M., Carpenter, L., Smith, T., & Yaroach, A. What factors influence SNAP participation? A literature review and secondary data analysis. Poster for International Society for Behavioral Nutrition and Physical Activity, May 2014. San Diego, California.
14. Pinard, C., **Byker, C.**, Thornton, L., Evans, A., & Yaroach, A. Assessing the food system across multiple settings. Symposium for International Society for Behavioral Nutrition and Physical Activity, May 2013. Ghent, Belgium.
15. **Byker, C.**, Harden, S., & Smith, T. Food access using the emergency food supply. Poster for International Society for Behavioral Nutrition and Physical Activity. May 2013. Ghent, Belgium.
16. Yaroach, A., Pinard, C., **Byker, C.**, Smith, T., & Cowan, E. The current state of food system measurement in the United States. Poster presentation for International Conference on Diet and Activity Methods (ICDAM) 8, May 2012. Rome, Italy.

17. **Byker, C.**, Finney Rutten, L.J., Pinard, C., Story, M., & Yaroch, A. Measurement: Tools to assess local food system impacts on public health outcomes. Presentation for International Society for Behavioral Nutrition and Physical Activity, May 2012. Austin, TX. Symposium: Food Systems as an Avenue for Health Promotion: Measurement, Impact, and Issues.
18. **Byker, C.**, & Serrano, E. Local and organic food policies of national chain restaurants. Poster Presentation for International Society for Behavioral Nutrition and Physical Activity, June 2009. Lisbon, Portugal.

### National

19. Haynes-Maslow, L., **Byker Shanks, C.**, Andress, L., Hardison-Moody, A., Jilcott Pitts, S., Patton-Lopez, M., & Prewitt, E.T. Rural food insecure families' perceptions of SNAP: A financial paradox. Presented at APHA Annual Meeting, October 2020. San Francisco, CA.
20. Smith, M., Held, S., Rink, E., **Byker Shanks, C.**, & Miles, M. Inflammatory effects of the Food Distribution Program on Indian Reservations (FDPIR; Commodities). Poster for Native Nutrition Conference Seeds of Native Health, October 2018. Prior Lake, MN.
21. Grossman, J., Ahmed, S., Valley, W., Jordan, N., **Byker Shanks, C.**, & Thornton, A. Integrating diverse worldviews for addressing wicked food system challenges Through Inclusive Curriculum. Workshop for Sustainable Agriculture Education Association Meeting, July 2018. Honolulu, HI.
22. Thornton, A., Ahmed, S., & **Byker Shanks, C.** The Bozone Ozone Bus experience: Implementation of a mobile garden-based, experiential learning program for enhancing sustainable food systems education of adult learners. Workshop for Sustainable Agriculture Education Association Meeting, July 2018. Honolulu, HI.
23. **Byker Shanks, C.**, Bark, K., & Stenberg, M. Smarter Lunchroom strategies increases vegetable selection at salad bars. Poster for Food & Nutrition Conference & Expo, October 2017. Chicago, IL
24. Bark, K., **Byker Shanks, C.**, & Stenberg, M. Smarter Lunchroom strategies decrease vegetable waste. Poster for Food & Nutrition Conference & Expo, October 2017. Chicago, IL.
25. Haynes-Maslow, L., & **Byker Shanks, C.** Arguments used to support or oppose public comments submitted in response to the USDA's Minimum Stocking Requirements: A content analysis. Presentation for RWFJ Healthy Eating Research Grantee Meeting, April 2017. Saint Paul, MN.
26. Haynes-Maslow, L., & **Byker Shanks, C.** Rural corner store owners' perceptions of USDA's minimum stocking requirements for SNAP. RWFJ Healthy Eating Research Grantee Meeting, April 2017. Saint Paul, MN.
27. Halvorson, J., **Byker Shanks, C.**, Seifert, J., & Miles, M. Perceptual responses of high intensity interval training among overweight and obese individuals. Poster for ACSM, June 2017. Denver, CO.
28. Roth, A., **Byker Shanks, C.**, Gamble, J., Halloran, K., Bass, T., & Schumacher J. Beef to school: Mooving forward together. Poster for National Farm to Cafeteria Conference. June 2016. Madison, WI
29. Stephens, L.,\* **Byker Shanks, C.**, Roth, A., & Bark, K. Outcomes of the Montana cook fresh culinary workshop. Poster for School Nutrition Association. July 2015. Salt Lake City, UT.
30. Bark, K., **Byker Shanks, C.**, & Stenberg, M. Innovative strategies for creating smarter lunchrooms in Montana high schools. Poster for Society for Nutrition Education and Behavior. July 2015. Pittsburg, PA.
31. **Byker Shanks, C.**, Orlowski, M., & Stenberg, M. Make your lunchroom smarter! Oral Presentation for School Nutrition Association. July 2015. Salt Lake City, UT.
32. **Byker Shanks, C.**, Bark, K., & Stenberg, M. Innovative strategies for creating smarter lunchrooms in Montana high schools. Poster for Childhood Obesity Conference. July 2015, San Diego, CA.
33. **Byker Shanks, C.**, Zanto, M., Epperson, E., & Schmidt L. Strategies to engage early child care providers in obesity prevention. Roundtable Discussion for Childhood Obesity Conference. July 2015. San Diego, CA.
34. **Byker Shanks, C.**, Zanto, M., Epperson, E., & Schmidt, L. Veggie variety and Montana moves: translating nutrition and physical standards to early child care providers. Poster for Childhood Obesity Conference. July 2015. San Diego, CA.
35. **Byker, C.**, & Marcenelle, M. Food waste among elementary children: challenges and opportunities. Oral Presentation for School Nutrition Association, July 2014. Boston, MA.

36. Ermann, M., Serrano, E., **Byker, C.**, & Calvey, R. Do elementary school children eat less in noisy cafeterias? Invited paper for the 167<sup>th</sup> meeting of the Acoustical Society of America. May 2014. Providence, RI.
37. Serrano, E., Farris, A., Marcenelle, M., Davis, G., & **Byker, C.** Food waste in schools: Opportunities for cross-programming in extension. Poster for Virginia Cooperative Extension, February 2014. Blacksburg, VA.
38. Johnson, D., Quinn, E., Ammerman, A., **Byker, C.**, Dean, W., Fleishhacker, S., Kolodinsky, J., Pinard, C., Jilcott Pitts, S., Sharkey, J., & Sitaker, M. Developing a policy research agenda for healthy food access in rural communities: A transdisciplinary concept mapping Approach. Paper for American Public Health Association, November 2013. Boston, MA.
39. **Byker, C.**, Pinard, C., Smith, T., Katz, S., & Yaroch, A. Factors influencing fruit and vegetable purchases at farm-to-consumer outlets. Poster for Society of Behavioral Medicine, March 2013. San Francisco, CA.
40. Smith, T., Pinard, C., **Byker, C.**, Wehtington, H., Blanck, H., & Yaroch, A. Fruit and vegetables as snacks in the home food environment: Findings from a survey of parent-child dyads. Poster for Society of Behavioral Medicine, March 2013. San Francisco, CA.
41. Pinard, C., **Byker, C.**, Yaroch, A., Wethington, H., Smith, T., Maynard, L., & Blanck, H. Sips and sides: How does calorie information influence ordering for children at fast food and chain restaurants? Poster for Society of Behavioral Medicine, March 2013. San Francisco, CA.
42. Frazier, M., **Byker, C.**, Cashman, S., & DeCourtney, C. Lessons from Cuba: Tailoring health for integrated care. Oral Presentation for American Public Health Association, October 2012. San Francisco, CA.
43. Pinard, C., **Byker, C.**, Yaroch, A., & Duyls-Nusbaum, E. Farm-to-School across three different educational entities: Unique assets and challenges. Panel for 6<sup>th</sup> National Farm to Cafeteria Conference, August 2012. Burlington, VT.
44. **Byker, C.**, Pinard, C., Serrano, E., & Yaroch, A. National chain restaurant policies supporting food sustainability. Paper for Global Gateways and Local Connections: Cities, Agriculture, and the Future of Food Systems, June 2012. New York, NY.
45. Pinard, C., **Byker, C.**, Goldstein, G., & Yaroch, A. Updates on farm to school across the United States: Progress made and room to grow. Panel for Global Gateways and Local Connections: Cities, Agriculture, and the Future of Food Systems, June 2012. New York, NY.
46. Pinard, C., **Byker, C.**, Smith, T.M., Chapman, M., & Yaroch, A. A needs assessment and pilot for developing the Nebraska health interview survey (NeHIS). Poster for Cattlemen's Ball of Nebraska, June 2012. McCool Junction, NE.
47. Awando, M., **Byker, C.**, Golliher, S., Span, K., Maria, S., Tendhar, C., Burge, P., & Moorefield-Lang, H. Building community in a university town: Motivational factors for shopping at the local farmers market by graduate students. Poster Presentation for Center for Instructional Development and Educational Research Conference, February 2012. Blacksburg, VA.
48. Rumore, A., **Byker, C.**, Dirk, K., Gay, L., Hodges, E., Kale, S., Lile, J., Moore, J., Nakamura, A., Smith, R., Stewart, S., Tawfik, A., Triantafyllidou, S., Williams, E., Kniola, D., Fowler, S., & DePauw, K. Global perspective: Rethinking the PhD. Symposium for Center for Instructional Development and Educational Research Conference, February 2012. Blacksburg, VA.
49. Holmes, A., Clark, S.F., Graves, G.B., Miller, C., Mousam, A., & **Byker C.** Heifer Honduras: A transformative education experience centered around global hunger and poverty. Symposium for Sustainable Agriculture Education Association 4<sup>th</sup> National Conference, August 2011. Lexington, KY.
50. Benson, M., **Byker, C.**, Clark, S.F., Niewolny, K., Serrano, E., Schwanke, J., & Ziegler, P. A case study exploring interdisciplinary collaborative team teaching around community food systems at Virginia Tech. Symposium for Sustainable Agriculture Education Association 4<sup>th</sup> National Conference, August 2011. Lexington, KY.
51. Niewolny, K., Clark, S., **Byker, C.**, Dulys-Nusbaum, E., & Schwanke, J. Fostering 'interdisciplinarity' through collaborative-based curriculum and instruction: The case of the civic agriculture and food systems (CAFS) minor at Virginia Tech. Symposium for Center for Instructional Development and Educational Research Conference, February 2011. Blacksburg, VA.

52. **Byker, C.**, Shanks, J., & Holmes, A. An immersion in teaching and learning: Heifer International alternative spring break. Symposium for ACC Interdisciplinary Forum for Discovery in Life Science at Virginia Tech, October 2010. Blacksburg, VA.
53. Niewolny, K., & Clark, S., & **Byker, C.** Boundary crossing, experiential learning, and sustainable agriculture at Virginia Tech. Symposium for Association for the Advancement of Sustainability in Higher Education, October 2010. Boulder, CO.
54. **Byker, C.**, & Clark, S. Heifer International's alternative spring break: Experiential immersion course. Poster Presentation for Association for the Advancement of Sustainability in Higher Education, October 2010. Boulder, CO.
55. **Byker, C.**, & Serrano, E. Fresh produce, fresh start: Effect of a free fruit and vegetable program on attitudes of head start families. Poster Presentation for USDA Scholars Multi-Institutional Symposium, August 2010. Blacksburg, VA.
56. **Byker, C.**, & Serrano, E. Fresh produce, fresh start: Effect of a free fruit and vegetable program on attitudes of Head Start families. Poster Presentation for International Society for Behavioral Nutrition and Physical Activity, June 2010. Minneapolis, MN.
57. **Byker, C.**, & Serrano, E. Energy costs of an energy imbalance. Poster Presentation for International Society for Behavioral Nutrition and Physical Activity, June 2009. Lisbon, Portugal.
58. **Byker, C.**, & Serrano, E. Local and organic food policies of national chain restaurants. Poster Presentation for Future of Food and Nutrition Conference, March 2009. Boston, MA.
59. **Byker, C.**, & Serrano, E. Energy costs of an energy imbalance. Poster Presentation for Fralin Obesity Fellows, May 2008. Blacksburg, VA.
60. Rose, N., Serrano, E., & **Byker, C.** How possible is a locally-based diet in Montgomery County, Virginia. Poster for Deans' Forum on Health, Food, and Nutrition. November 2007. Blacksburg, VA.

#### Regional or State

61. **Byker Shanks, C.**, Johnson, N., & Larison, L. The UnProcessed Pantry Project. Panelist for NIH IDeA Western Regional Conference. September 2019. Las Vegas, NV.
62. **Byker Shanks, C.** The UnProcessed Pantry Project (UP3). MSU Health Research and How It Can Inform Practice. Montana Primary Care Association Training. May 2019. Butte, MT.
63. **Byker Shanks, C.**, Gamble, K., Vogler, R., Bass, T., & Roth, A. Moooooving forward together: Montana beef to school basics. Sprouting Success: Montana Farm to School Summit. October 2016. Bozeman, MT.
64. **Byker Shanks, C.** Research tools available to influence the food environment. Presentation for 2016 Montana Academy of Nutrition and Dietetics. May 2016. Bozeman, MT.
65. Ashe, C., Bark, K., **Byker Shanks, C.**, & McCauley, K. Smarter lunchrooms movement. Presentation for 2015 Annual Extension Conference. October 2015. Bozeman, MT.
66. Stenberg, M., & **Byker, C.** Smarter lunchrooms. Workshop for Montana School Nutrition Association. June 2014. Great Falls, MT.
67. Jamison, D.,\* **Byker, C.**, & McRae Holland, C. The sustainable food systems project for youth. Workshop for Montana 4-H Leadership Forum. September 2013. Miles City, MT.
68. Jamison, D.,\* McRae-Holland, C., **Byker, C.**, & Harmon, A. The 4-H sustainability project: Youth discovering, engaging, and learning about food systems sustainability. Poster for 2013 Montana State University Student Research Celebration, April 2013. Bozeman, MT.
69. Redman, E.,\* Harmon, A., **Byker, C.**, Hartshorn, T., & Moss, E. composting at Montana state university: Implementing and analysis of a pilot program. Poster for 2013 Montana State University Student Research Celebration, April 2013. Bozeman, MT.
70. Quinn, E., & **Byker, C.** Developing a policy research agenda to improve healthy food access in rural areas. Oral Presentation for Northwest Regional Rural Health Conference, March 2013. Spokane, WA.

## Invited Presentations (Selected)

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### International

1. **Byker Shanks, C.** Globalization and innovation in the food supply. Guest speaker at Universidad Panamericana. July 2019. Mexico City, Mexico.
2. **Byker Shanks, C.** Food wastage: The new nutrition frontier. Panelist for Agricultural development to achieve food security and sustainable food systems: Global policies and practices. International Nutrition Education Division of the Society of Nutrition Education and Behavior Conference. July 2017. Washington DC, USA.

### National

3. **Byker Shanks, C.** The Impact of COVID-19 on Food Security and Health Across Five States. NOPREN COVID-19 Survey Group. February 2021. Webinar.
4. **Byker Shanks, C.** The UnProcessed Pantry Project. Speaker for NOPREN Rural Food Access Working Group. October 2020. Webinar.
5. **Byker Shanks, C.** Evaluation intricacies: nutrition incentives in rural communities. Panelist for Nutrition Incentive Hub. July 2020. Webinar.
6. **Byker Shanks, C.** Fruit and Vegetable desirability in rural food environments: Utilization of the Produce Desirability (ProDes) Tool. NOPREN Rural Food Access Working Group. May 2018. Webinar.
7. **Byker Shanks, C.,** & Ashe, C. Let's eat! A guide to engaging students in Smarter Lunchrooms. Health Food Choices in Schools National Community of Practice. April 2018. Webinar.
8. **Byker Shanks, C.,** Jilcott-Pitts, S., & Trapl E. Farmers' markets as a public health strategy to increase healthy food access. Society for Public Health Education Webinar Series. August 2016. Webinar.
9. **Byker Shanks, C.** Measuring food waste in school settings to influence dietary intake. US Department of Health and Human Services Promoting Healthy Eating + Active Living through the National Prevention Strategy (NPS). May 2016. Webinar.
10. **Byker Shanks, C.** Farm to school: It's all about context. Florida Farm to School Conference. October 2015. Naples, FL.
11. Hunts, H., Ahmed, S., **Byker, C.,** & Sherman, J. USDA Food Distribution Programs on Indian Reservations. National Association of Food Distribution Programs on Indian Reservations. June 2014. San Diego, CA.

### Regional or State

12. **Byker Shanks, C.** The impact of COVID-19 on food security in Montana. Speaker for Montana State Health Improvement Plan. October 2020. Webinar.
13. **Byker Shanks, C.,** Johnson, N., & Larison, L. The UnProcessed Pantry Project. Panelist for Alternative Energy Resources Organization. October 2019. Bozeman, MT.
14. **Byker Shanks, C.** Montana Beef to School Moooving Forward. Montana Farm to School Leadership Meeting, December 2016. Three Forks, MT
15. Ahmed, S., **Byker Shanks, C.,** Tryon, M., & Thomas, D. Agriculture, Food, + Health Linkages: Approaches to Researching Dietary Quality. INBRE Annual Conference, April 2016. Bozeman, MT.
16. **Byker, C.** Bozeman community food co-op: Promoting sustainability and becoming a key partner. Build a Stronger Montana: End Childhood Hunger, September 2013. Bozeman, MT.
17. **Byker, C.** (2013, June). Strategies to promote healthy and hunger-free students. Montana Behavioral Initiative Summer Institute, Bozeman, MT.
18. **Byker, C.** Social media: A toolkit for communicating nutrition. Montana Dietetic Association Food & Nutrition Conference, May 2012. Kallispel, MT.



## Montana State University

19. **Byker Shanks, C.** Engaging communities in project questions. MSU Graduate Student Inner Mountain Curriculum. January 2021.
20. **Byker Shanks, C., & Ahmed, S.** Pursuing excellence through collaborative leadership. Leadership MSU. February 2020.
21. **Byker Shanks C.** Integrated scholarship panel. College of Education, Health, and Human Development. February 2019.
22. **Byker Shanks C.** US and global food and nutrient security. Food Politics and Culture. December 2016.
23. Ahmed, S., & **Byker Shanks, C.** Not all apples are the same: Variations in the Montana food environment. Education, Health and Human Development Seminar. 2016.
24. **Byker Shanks, C.** Content analysis workshop. College of Business Seminar. December 2015.
25. **Byker C.** Let me share a secret: Small modifications that make big impacts on what you eat. Education, Health and Human Development Seminar. March 2014.
26. **Byker, C., Ahmed, S., & Smith, T.** The rural food environment in Montana: You are what you eat and it matters where you live. Pecha Kucha Microbiosciences Series. October 2014.
27. **Byker, C., Hancock, L., Rink, B., & Swanson, E.** Yikes! I got the grant: How to be a grant manager. Panel for Education, Health and Human Development Research Series, March 2013.
28. **Byker, C.** Food security and food access in Montana. Seminar for Fort Peck Community College Student Research Interns, April 2013.
29. **Byker, C.** Researching food systems as an avenue for health promotion. Montana State University's Research Methods Seminar Series, April 2013.
30. **Byker, C., Harmon, H., & Fox, M.** The global seafood system: Understanding sustainability. Montana State University's Health and Human Development Research Seminar Series, February 2013.
31. **Byker, C.** Social media: A toolkit for communicating nutrition. Montana Dietetic Internship, August 2012.
32. **Byker, C.** Food security in the United States and around the globe. Montana State University. Introduction to Sustainable Food and Bioenergy System Seminar, April 2012.
33. **Byker, C.** Fresh Produce, Fresh Start: Dietary impacts of a local fruit and vegetable delivery program with Head Start families. Montana State University's Health and Human Development Research Seminar Series, November 2011.

## Virginia Tech

34. **Byker Shanks, C.** Undergraduate scholars TOUR Panel. Virginia Tech Speaker Series, June 2020.
35. **Byker Shanks, C.** Food and the frontier: Researching dietary quality in a rural state. Virginia Tech HNFE Seminar Speaker Series, March 2016.
36. **Byker, C.** Locally grown, nutritious foods for everyone. Community Foundation of the New River Valley's Food Security and Sustainability in Our Rural Community, April 2010.
37. **Byker, C.** From farm to fork: A look at local eating. Human Nutrition, Foods and Exercise Writing and Discourse Seminar, November 2007.
38. **Byker, C.** From farm to fork: A look at local eating. USDA Scholar's Research Symposium, August 2007.

## Teaching, Courses

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### **Assistant Professor, Montana State University**

Research Methods for MDI (HHD 512), 3 credit lecture

Fall 2020, Fall 2021

Food and Culture (NUTR 301), 3 credit lecture

Fall 2017, Fall 2019



Nutrition and Society (NUTR 351), 3 credit lecture	Spring 2012, Spring 2013, Fall 2014, Fall 2015, Summer 2016, Fall 2016, Summer 2017, Fall 2017, Summer 2018, Fall 2018, Fall 2019, Summer 2019, Summer 2020, Summer 2021
Research Methods (HHD 512), 3 credit lecture	Spring 2015, Spring 2016, Spring 2017, Spring 2019, Spring 2020, Spring 2021
Quantity Foods Production and Management (NUTR 395), 3 credit practicum	Spring 2012, Spring 2013, Spring 2014, Spring 2016, Spring 2017
Culinary Marketing: Farm to Table (SFBS 445R), 2 credit lecture, 1 credit lab	Summer 2012, Summer 2013, Summer 2015
Morocco Sustainable Community Development (NUTR 492), 3 credit study abroad	Summer 2014
Food Service System Management (NUTR 322), 3 credit lecture	Fall 2011, Fall 2012, Fall 2013
Basic Human Nutrition (NUTR 221), 3 credit lecture	Summer 2013
Culinary Marketing: Farm to Table (SFBS 541), 2 credit lecture, 1 credit lab	Summer 2012, Summer 2013
Small Business Entrepreneurship in Food & Health (SFBS 429), 3 credit lecture	Fall 2012
Lifespan of Human Development (HDCF 150), 3 credit lecture	Fall 2011
<b>Virginia Tech</b>	
Sustainable Community Development: Heifer Honduras Study Abroad <i>Co-Instructor</i> (ALS 3954)	Spring 2011
Community Food Systems <i>Graduate Teaching Assistant and Course Developer</i> (ALS 4204)	Spring 2011
Community Nutrition and Physical Activity <i>Graduate Teaching Assistant</i> (HNFE 4624)	Fall 2010
Introduction to Civic Agriculture <i>Graduate Teaching Assistant and Course Developer</i> (ALS 2204)	Fall 2010
Agriculture Community Development Models <i>Co-Instructor</i> (ALS 2984)	Spring 2010

Sustainable Agriculture <i>Course Instructor</i> , 1 credit lecture (GRAD 5984)	Fall 2009
Human Anatomy and Physiology <i>Lab Instructor</i> , 1 credit lab (BMSP 2135)	Spring 2009
<i>Graduate Teaching Assistant</i>	
PHC6756 Population Assessment I (hybrid)	Fall 2018
PHC6412 Health Disparities (online)	Fall 2018
PHC6757 Population Assessment 2 (hybrid)	Spring 2019

## Teaching, Advising

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### Graduate (MS) Chair or Co-Chair

- Casey Hoff, Sustainable Food Systems, Masters in progress beginning Spring 2021
- Jacquelyn Coffin, Sustainable Food Systems, (graduated Summer 2021)
- Elizabeth Swank, Sustainable Food Systems, (graduated Summer 2021)
- LeeAnna Larison, UnProcessed Pantry Project, (graduated Spring 2021)
- Eli Svisco, Behavioral Economics Among Adolescents, (graduated Spring 2018)
- Erin Smith (Co-Chair), Role of Wild Food Biodiversity for Food Security and Cultural Identity, (graduated Spring 2018)
- Leah Smutko (Co-Chair), Campus Food Education, (graduated Spring 2018)
- Allison Milodragovich (Co-Chair), Food Waste in Preschools (graduated Spring 2017)
- Candace Moyer (Co-Chair), Food and Agriculture Policy (graduated Spring 2017)
- Madeline Kelly, Food Waste Education (graduated Spring 2017)
- Alicia Leitch, Institutional Food Waste (graduated Spring 2016)
- Bailey Houghtaling, Breastfeeding in the Food Environment (graduated Fall 2015)
- Mica Jenkins, International Food System Development (graduated Fall 2015)
- Kate Bates, Portion Size (graduated Spring 2015)
- Lacy Stephens, School Foodservice Culinary Skills (graduated Spring 2015)
- Sarah Haack, The Role of Dietary Food Guidance (graduated Spring 2014)
- Marcy Gaston, Community Food Truck (graduated Spring 2014)
- Elizabeth Redman, Composting (graduated Summer 2013)
- Aubree Durfey, Bountiful Montana Business Plan (graduated Spring 2012)

### Undergraduate Independent Research Advising

- Rachel Ariaz, (UG Senior), Research Assistant, UnProcessed Pantry Project, Spring 2020–Fall 2021
- Austin Barnhardt, (UG Senior), INBRE Public Health Internship, UnProcessed Pantry Project, Fall 2019–Present 2021
- Hannah Larson, (UG Senior), Research Assistant and INBRE Public Health Internship, UnProcessed Pantry Project, Spring 2019–2021
- LeeAnna Larison, (Post Bac), Research Assistant, UnProcessed Pantry Project, Spring 2019–Summer 2019
- Beryl Wytcherly, (UG Freshman), Research Assistant, UnProcessed Pantry Project, Spring 2019–Present
- Nick Johnson, (UG Senior), INBRE Public Health Internship, UnProcessed Pantry Project, Summer 2018–Spring 2020
- Debra Kraner (UG Senior), Food Environment Research Assistant in Food and Health Lab, Fall 2015–Spring 2018
- Emilia Hitchcock (UG Senior), Farmers Market Audit, Spring 2017–Fall 2018

- Gretchen Groves, (UG Senior), INBRE Public Health Internship, Farmers Market and SNAP in Montana, Summer 2016
- Luke Shealy (UG Senior), INBRE Public Health Internship, Farmers Market and SNAP in Montana, Summer 2016
- Madi Bautista (UG Junior), INBRE Public Health Internship, Food Waste and Composting at the Gallatin Valley Food Bank, Spring 2016
- Bonnie Billingsley (UG Senior), Food Environment Research Assistant in Food and Health Lab, Spring 2015–Spring 2016
- Amy Bordeau (UG Senior), Food Environment Research Assistant in Food and Health Lab, Summer 2015–Spring 2016
- Sarah Phillips (UG Senior), Food Environment Research Assistant in Food and Health Lab, Summer 2015–Summer 2016
- Dani Hess (UG Junior), INBRE Public Health Internship, Evaluating Dietary Diversity and Food Costs on the Flathead Indian Reservation of Montana, Fall 2015–Spring 2016
- Lizzy Narigon (UG Junior), INBRE Public Health Internship, Promoting Milk in Smarter Lunchrooms, Fall 2014–Spring 2015
- Erin Jackson, (Post Baccalaureate), Nutrition in the Community, Spring 2014
- Rachel Bochy, (UG Junior), INBRE Public Health Internship, Photovoice and Senior Food Access, Fall 2013–Spring 2014
- Karen Page (UG Senior), Independent Study, Local Food Systems at Farmers Markets, Fall 2013
- Tarra Culbertson (UG Senior), INBRE/Undergraduate Scholars Program, USDA Summer Foodservice Program, Summer 2013
- Kaitlyn Okrusch (UG Junior), INBRE/Undergraduate Scholars Program, Nutrition Education in Medical Schools, Summer 2013
- Tarra Culbertson (UG Senior), National Farm to School Network, Spring 2013
- Cassidy Baerg (UG Senior),
- Tarra Culbertson (UG Senior), Hunger in Montana, Fall 2012
- Kara Landolfi (UG Junior), Undergraduate Scholars Program, Community Food Truck Surveying, Summer 2012

## Honors and Awards

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2020	Fox Faculty Award Nomination, Montana State University
2019	AASHE (Association for the Advancement of Sustainability in Higher Education) Sustainability Award Finalist
2019	Fox Faculty Award for Accomplishments in Teaching Research/Creative Activity and Mentorship Nomination, Montana State University
2017	Provost's Award for Graduate Research/Creativity Mentoring Nomination, Montana State University
2017	Food & Nutrition Conference & Expo. Outstanding Poster Abstract, Academy of Nutrition and Dietetics
2016	Outstanding Alumni Award, Human Nutrition, Foods and Exercise, Virginia Tech
2015	Montana State University Campus Sustainability Award
2015	Academic Advising Excellence Award Nomination
2015	Montana Public Health Association President's Award
2014	Researcher of the Year, College of Education, Health and Human Development, Montana State University
2013	Teaching Innovation Award Nomination
2013	Academic Advising Excellence Award Nomination
2013	Nourishing Community Award, Gallatin Valley Food Bank
2012	Montana State University President's Award for Excellence in Service-Learning Nomination
2011	Gwin Parker-Gwin Award for Excellence in Community Engagement
2008	Department of Human Nutrition, Foods and Exercise Outstanding Student of the Year

2008	Fralin Obesity/Nutrition Fellowship 1 <sup>st</sup> Place Poster Presentation
2008	Fralin Obesity/Nutrition Fellowship
2008	Professor Librescu Scholarship
2007	Undergraduate Research Fellowship

## Service, Professional

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### Board of Editors

June 2020-2023      Journal of the Academy of Nutrition and Dietetics

### Ad-Hoc Journal Review

2022-Present	Current Developments in Nutrition
2019-Present	American Journal of Preventive Medicine
2016-Present	Food Security
2013-Present	Health Education and Behavior
2013-Present	Appetite
2012-Present	Journal of Nutrition Education and Behavior
2012-Present	Journal of Hunger and Environmental Nutrition
2012-Present	Preventing Chronic Disease
2012-Present	Academy of Nutrition and Dietetics

### Textbook Review

Spring 2021	Routledge Press – Sustainable Diets
Winter 2015	Oxford University Press – Food and Nutrition Economics
Spring 2012	Jones & Bartlett Learning – Global Public Health
Spring 2012	Worth Publishers – Human Development

### Grant Review

2021	NIH PAR 18-854 (September Panel)
2021	USDA Western SARE
2020	NIH COBRE CAIRHE
2020	USDA Farm to School Grants
2020	NIH Montana INBRE
2019	RWJF Healthy Eating Research – Round 12
2019	NIH AIAN CTR
2017	Canada Research Chairs
2016	Nebraska Food for Health Initiative Proposal Review
2011	Peggy and Charles Stephenson Oklahoma Cancer Center and Gretchen Swanson Center for Nutrition Cancer Prevention and Control Utilizing Multiple Approaches

## Service, Outreach

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### National Service

2011-Present	<b>Collaborative Member, Rural Food Access Working Group</b> , Nutrition and Obesity Policy Research Evaluation Network (NOPREN)
2013-2018	<b>Subcommittee Member, Research and Evaluation Working Group</b> , National Farm to Preschool Subcommittee

### State or Regional Service

#### Montana

2019-Present	<b>Member at Large, Board of Directors</b> , Montana Academy of Nutrition and Dietetics
2016-Present	<b>Advisory Board Director</b> , Gallatin Valley Food Bank

2014-Present **Secretary, Board of Directors**, Bozeman Community Food Co-Op  
 2012-Present **Member**, Montana Partnership to End Childhood Hunger  
 2014-2015 **Board of Directors, Chair**, Eat Right Montana  
 2013-2015 **Social Media Subcommittee Chair**, Eat Right Montana  
 2011-2013 **Board of Directors, Member at Large**, Eat Right Montana

Virginia

2010-2011 **Education and Outreach Committee Chair**, Friends of the Blacksburg Farmers Market  
 2010-2011 **Development Chair**, New River Valley Local Food Directory Committee  
 2009-2011 **Grant Writer**, Friends of the Blacksburg Farmers Market  
 2009-2011 **Organization member to build grassroots hunger-relief capacity**, New River Valley Food Share  
 2009-2011 **Consultant**, Plenty! “Neighbors Working Side by Side to Grow and Share Food”  
 2008-2011 **Board Member**, Friends of the Blacksburg Farmers Market  
 2007-2011 **e-Newsletter Author**, Friends of the Blacksburg Farmers Market

**Service, University, College, and Departmental**

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**University Service**

2018-Present **Review Panelist**, Undergraduate Scholars Program  
 2017-2018 **Committee Member**, Search Committee for Extension, Food and Nutrition Specialist  
 2016-2017 Strategic Planning Council  
 2016-2017 **Chair**, Search Committee for Assistant Professor in Hospitality  
 2015-2016 **Committee Member**, Search Committee for Assistant Professor in Hospitality  
 2014 **Committee Member**, Search Committee for Assistant Professor in Community Health  
 2013-2014 **Steering Committee**, Women’s Faculty Caucus  
 2012, 2014 **Interviewer**, MSU Students Going Global  
 2012, 2013 **Committee Member**, Search Committee for Assistant Professor in Sustainable Food Systems  
 Spring 2012 **Planning Committee**, University Food Services Montana Made Food Fair  
 2012 **Committee Member**, Montana Team Nutrition Search Committee for Child Nutrition Education Coordinator

**College Service**

Spring 2020 **Committee Member**, Montana Dietetic Internship Selection Committee  
 Fall 2019 **Reviewer**, NCUR 2020 Abstract  
 2013-2014 **Committee Member**, College of Education, Health and Human Development Strategic Planning Committee  
 2013 **Committee Member**, College of Education, Health and Human Development Research Infrastructure Committee

**Departmental Service**

Montana State University

Fall 2011-2021 **Board Member**, Didactic Program in Dietetics Advisory Board Member  
 2020-2021 **Alternate**, Faculty Senate  
 2019 **Committee Member**, Retention, Promotion, and Tenure Committee  
 Fall 2019 **Committee Member**, Search Committee for School Nutrition Research Coordinator  
 Fall 2019 **Committee Chair**, Search Committee for Research Dietitian  
 Fall 2018 **Committee Member**, Search Committee for Sustainable Food Systems Post Doc  
 2015-2017 **Committee Chair**, Instructional Equipment Committee  
 2014-2016 **Committee Chair**, Discovery Committee

2013-2014 **Committee Member**, Instructional Equipment Committee  
 Spring 2012-2014 **Graduate Coordinator**, M.S. Health and Human Development, Sustainable Food Systems Emphasis  
 2011-2013 **Committee Member**, Discovery Committee

Virginia Tech

2009-2011 **Curriculum Development**, Civic Agriculture and Food Systems Minor Planning Committee  
 2009-2011 **Advisor**, Sustainable Food Corps  
 2009-2010 **Community Chair**, Graduate Network for Community Engaged Scholarship at Virginia Tech

**Training**

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Summer 2021 Wiki Scientist  
 June 2020 Summer Teaching Online Immersion Workshop  
 August 2019 Public Achievement Workshop, Dennis Donovan, Montana State University  
 Fall 2018 Foundations of Sensory Science, UC Davis  
 April 2015 Voices for Health Kids Regional Training, American Heart Association  
 2014 Navigating New Media Workshop Series, Montana State University  
 December 2014 Center for Science in the Public Interest, PEW Charitable Trust NANA State Council Meeting, Washington DC  
 Summer 2013 EHHD Grant Writing Boot Camp  
 May 2013 Narrative Writing Workshop, Laura Black, Montana State University  
 2013 Women’s Faculty Caucus Mentorship Program, Montana State University  
 April 2013 Systems Thinking Across the Curriculum, Dr. Nic Jordan and Sustainable Foods and Bioenergy Systems, Montana State University  
 Fall 2012 Pecha Kucha for Scientists and Scholars, MSU Extended University  
 2009 Local Food Policy Council Training, Mark Winne, Charlottesville, VA  
 2009 Geographic Information System (GIS) Training, New Urban Research Incorporated, Richmond, VA

**Professional Affiliations**

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2019-Present World Public Health Nutrition Association  
 2009-Present Academy of Nutrition and Dietetics  
 2009-2014 International Society for Behavioral Nutrition and Physical Activity