

Dayeon Shin, PhD, RD

Associate Professor
Department of Nutritional Science and Food Management
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EDUCATION

PhD, Human Nutrition (December 2015)

Department of Food Science and Human Nutrition, Michigan State University, East Lansing, MI

MS, Human Nutrition (August 2012)

Department of Food Science and Human Nutrition, Michigan State University, East Lansing, MI

BS, Nutritional Science and Food Management; Minor in Consumer Science (February 2009)

Department of Nutritional Science and Food Management, Ewha Womans University, Seoul, Korea

CREDENTIALS

Registered Dietitian (RD)

Commission on Dietetic Registration (ID 86047722)

ACADEMIC POSITIONS

Associate Professor (Tenure-track) (March 2026-Present)

Department of Nutritional Science and Food Management, Ewha Womans University

Assistant/Associate Professor (Tenure-track) (March 2019-February 2026)

Department of Food and Nutrition, Inha University

Assistant Professor (Tenure-track) (August 2017-December 2018)

Department of Public Health, Food Studies and Nutrition, Syracuse University, Syracuse, NY

Faculty Affiliate (February 2018- December 2018)

The Aging Studies Institute, Syracuse University, Syracuse, NY

Assistant Professor (Tenure-track) (July 2016-July 2017)

Department of Nutrition and Dietetics, University of North Dakota, Grand Forks, ND

Dietetic Intern (August 2015-June 2016)

Department of Food Science and Human Nutrition, Michigan State University, East Lansing, MI

Research Intern Fellow (August 2010)

NYU Center for the Study of Asian American Health

Department of Population Health, NYU School of Medicine, New York, NY

Graduate Research/Teaching Assistant (June 2009-August 2015)

Department of Food Science and Human Nutrition, Michigan State University, East Lansing, MI

SCHOLARSHIPS AND AWARDS

Inha University Academic Research Award (Faculty), June 19, 2023

Korea Disease Control and Prevention Agency (KDCA) Academic Award, Korean Society of Community Nutrition (KSCN), October 21, 2022

Dissertation Completion Fellowship, College of Agriculture and Natural Resources, Michigan State University, Summer 2015

Olaf and Clarice Mickelsen Human Nutrition Endowed Fellowship, Department of Food Science and Human Nutrition, Michigan State University, 2014-2015

Sara Lee Endowment Fund for Food Safety in Food Science and Human Nutrition, Department of Food Science and Human Nutrition, Michigan State University, 2014-2015

Graduate Student Travel Funding, Michigan State University, 2013, 2014, 2015

Beth and Holly Fryer Endowed Scholarship, Department of Food Science and Human Nutrition, Michigan State University, 2013-2014

College of Agriculture & Natural Resources Summer Funding, Michigan State University, Summer 2012

H.A.M.M. Scholarship, Department of Food Science and Human Nutrition, Michigan State University, 2011-2012

College of Agriculture & Natural Resources Summer Funding, Michigan State University, Summer 2011

Olaf and Clarice Mickelsen Human Nutrition Endowed Fellowship, Department of Food Science and Human Nutrition, Michigan State University, 2010-2011

PUBLICATIONS (PEER-REVIEWED ARTICLES)

Accepted/In Press († denotes co-first authors; * denotes corresponding author)

1. Kim S-H, Kim H, **Shin D***. Adherence to the Dietary Approaches to Stop Hypertension score and cardiovascular disease risk in Korean adults: a prospective cohort study using marginal structural models. *Am J Clin Nutr*.
2. Ko S-H†, Kim M†, **Shin D***. The Inverse Relationship Between Copy Number Variation Burden and Age of Onset of Metabolic Syndrome in Korean Middle-Aged Adults. *BMC Med Genomics*.
3. Jeon H, Kim S-H, **Shin D***. Examining the mediating effects of metabolic syndrome components on the relationship between dairy product consumption and nonalcoholic fatty liver disease in Korean adults. *PLoS One*.

Published

4. Ko S-H, Cho B, **Shin D***. Microproteins in Metabolic Biology: Emerging Functions and Potential Roles as Nutrient-Linked Biomarkers. *Int J Mol Sci*. 2025;26(24):11883.
5. Kim S, **Shin D***. Causal effect of coffee consumption on metabolic syndrome in Korean adults: a 2-sample Mendelian randomization study. *Nutr Res Pract*. 2025;19(6):943-966.

6. Cha J, Ko SH, **Shin D***. Causal effect of kimchi intake on HDL-cholesterol levels in middle aged Korean men: a two-sample Mendelian randomization analysis. *Genes Nutr.* 2025;20(1):23.
7. Kim M, Lee S, Hur J, **Shin D***. Metabolomics and nutrient intake reveal metabolite-nutrient interactions in metabolic syndrome: insights from the Korean Genome and Epidemiology Study. *Nutr J.* 2025;24(1):128.
8. Kim J, Lee S, Acharya SR, **Shin D***. Association of FHIT gene variant and salty food preference with the incidence of metabolic syndrome. *Genes Nutr.* 2025;20(1):5.
9. Kim M, **Shin D***. Effects of the Interaction Between Oxidative Balance Score and Polygenic Risk Scores on Incidence of Metabolic Syndrome in Middle-Aged Korean Adults. *Antioxidants (Basel).* 2024;13(12):1556.
10. Lee S, **Shin D***. A combination of red and processed meat intake and polygenic risk score influences the incidence of hyperuricemia in middle-aged Korean adults. *Nutr Res Pract.* 2024;18(5):721-745.
11. **Shin D***. Prediction of metabolic syndrome using machine learning approaches based on genetic and nutritional factors: a 14-year prospective-based cohort study. *BMC Med Genomics.* 2024;17(1):224.
12. Su MZ, Lee S, **Shin D**. Association of Dietary Fiber and Measures of Physical Fitness with High-Sensitivity C-Reactive Protein. *Nutrients.* 2024;16(6):888.
13. Shim SR, **Shin D**, Kim SJ, Kim YK, Lee KJ. Unveiling the Therapeutic Potential and Healthcare Applications of Marine Therapy: A Systematic Review with Meta-Analysis and Meta-Regression. *Mar Drugs.* 2023;21(12):604.
14. Kubuga CK, **Shin D**, Song WO. Determinants of dietary patterns of Ghanaian mother-child dyads: A Demographic and Health Survey. *PLoS One.* 2023;18(11):e0294309.
15. Park H, Jeon H, Lee KJ, Kim CG, **Shin D***. Seaweed intake modulates the association between VIPR2 variants and the incidence of metabolic syndrome in middle-aged Koreans. *Food Funct.* 2023;14(20):9446-9456.
16. Kwak J, Hong G, Lee KJ, Kim CG, **Shin D***. Effect of the Interaction between Seaweed Intake and LPL Polymorphisms on Metabolic Syndrome in Middle-Aged Korean Adults. *Nutrients.* 2023;15(9):2066.
17. Lee KW, Kang MS, Lee SJ, Kim HR, Jang KA, **Shin D***. Prospective Associations between Dietary Patterns and Abdominal Obesity in Middle-Aged and Older Korean Adults. *Foods.* 2023;12(11):2148.
18. Wu Y, **Shin D***. Association between alcoholic beverage intake and hyperuricemia in Chinese adults: Findings from the China Health and Nutrition Survey. *Medicine (Baltimore).* 2023;102(22):e33861.
19. Park H, **Shin D***, Lee KW. Association of main meal frequency and skipping with metabolic syndrome in Korean adults: a cross-sectional study. *Nutr J.* 2023;22(1):24.
20. **Shin D**, Shim SR, Wu Y, Hong G, Jeon H, Kim CG, Lee KJ. How Do Brown Seaweeds Work on Biomarkers of Dyslipidemia? A Systematic Review with Meta-Analysis and Meta-Regression. *Mar Drugs.* 2023;21(4):220.

21. Kwak J, Jang KA, Kim HR, Kang MS, Lee KW, **Shin D***. Identifying the Associations of Nightly Fasting Duration and Meal Timing with Type 2 Diabetes Mellitus Using Data from the 2016-2020 Korea National Health and Nutrition Survey. *Nutrients*. 2023;15(6):1385.
22. Kwak J, **Shin D***. Gene-Nutrient Interactions in Obesity: COBLL1 Genetic Variants Interact with Dietary Fat Intake to Modulate the Incidence of Obesity. *Int J Mol Sci*. 2023;24(4):3758.
23. Lee KW, **Shin D***. Interactions between Bitter Taste Receptor Gene Variants and Dietary Intake Are Associated with the Incidence of Type 2 Diabetes Mellitus in Middle-Aged and Older Korean Adults. *Int J Mol Sci*. 2023;24(3):2199.
24. Park H, **Shin D***. Effects of Interaction between SLC35F3 and Carbohydrate Intake on the Incidence of Metabolic Syndrome in Korean Middle-Aged Adults. *Nutrients*. 2023;15(2):469.
25. **Shin D**, Lee KW. Fruit and Vegetable Consumption Interacts With HNF1A Variants on the C-Reactive Protein. *Front Nutr*. 2022;9:900867.
26. **Shin D**, Hong SJ, Lee KW, Shivappa N, Hebert JR, Kim K. Pro-inflammatory diet associated with low back pain in adults aged 50 and older. *Appl Nurs Res*. 2022;66:151589.
27. Lee KW, **Shin D***. Concurrent presence of high serum uric acid and inflammation is associated with increased incidence of type 2 diabetes mellitus in Korean adult population. *Sci Rep*. 2022;12(1):11000.
28. Park H, Lee KW, **Shin D***. Association of Seaweed Consumption with Metabolic Syndrome and Its Components: Findings from the Korean Genome and Epidemiology Study. *Foods*. 2022;11(11):1635.
29. Choi WJ, **Shin D***. Interactions between red and processed meat consumption and APOA5 gene variants associated with the incidence of metabolic syndrome in Korean adults. *Genes Nutr*. 2022;17(1):5.
30. Kwak J, **Shin D***. Association between Green Tea Consumption and Abdominal Obesity Risk in Middle-Aged Korean Population: Findings from the Korean Genome and Epidemiology Study. *Int J Environ Res Public Health*. 2022;19(5):2735.
31. Lee KW, **Shin D***. Trends in intake and sources of dietary protein in Korean adults, 1998-2018. *Br J Nutr*. 2022;128(8):1595-1606.
32. Hwang J, **Shin D**, Kim H, Kwon O. Association of maternal dietary patterns during pregnancy with small-for-gestational-age infants: Korean Mothers and Children's Environmental Health (MOCEH) study. *Am J Clin Nutr*. 2022;115(2):471-481.
33. Lee KW, **Shin D***. Comparison of Dietary Behaviors and the Prevalence of Metabolic Syndrome in Single- and Multi-Person Households among Korean Adults. *Healthcare (Basel)*. 2021;9(9):1116.
34. **Shin D**, Lee KW. Dietary carbohydrates interact with AMY1 polymorphisms to influence the incidence of type 2 diabetes in Korean adults. *Sci Rep*. 2021;11(1):16788.
35. Hur J, Yoo J, **Shin D**, Baek KH, Park S, Lee KJ. Predictability of Macrosomic Birth based on Maternal Factors and Fetal Aneuploidy Screening Biochemical Markers in Hyperglycemic Mothers. *Int J Med Sci*. 2021;18(12):2653-2660.

36. **Shin D**, Lee KW. High pre-pregnancy BMI with a history of gestational diabetes mellitus is associated with an increased risk of type 2 diabetes in Korean women, *PLoS ONE*. 2021;16(6):e0252442
37. **Shin D**, Lee KW. CLOCK Gene Variation Is Associated with the Incidence of Metabolic Syndrome Modulated by Monounsaturated Fatty Acids. *J Pers Med*. 2021;11(5):412.
38. Lee KW, **Shin D***. Relationships of dietary factors with obesity, hypertension, and diabetes by regional type among single-person households in Korea. *Nutrients*. 2021;13(4):1218.
39. Lee KW, **Shin D***. Positive association between dietary acid load and future insulin resistance risk: findings from the Korean Genome and Epidemiology Study. *Nutr J*. 2020;19(1):137.
40. **Shin D†**, Lee KJ†, Adeluwa T†, Hur J. Machine Learning-Based Predictive Modeling of Postpartum Depression. *J Clin Med*. 2020;9(9):2899.
41. Choi WJ, Jin H-S, Kim S-S, **Shin D***. Dietary Protein and Fat Intake Affects Diabetes Risk with CDKAL1 Genetic Variants in Korean Adults. *Int J Mol Sci*. 2020; 21(16):5607.
42. Jeong H, Jin H-S, Kim S-S, **Shin D***. Identifying Interactions between Dietary Sodium, Potassium, Sodium–Potassium Ratios, and FGF5 rs16998073 Variants and Their Associated Risk for Hypertension in Korean Adults. *Nutrients*. 2020;12(7):2121.
43. Chung HK, **Shin D**, Woo N. A Study on Joseon Royal Cuisine through Sachanbalgi of the Jangseogak Archives - Focusing on Royal Birthday, Child birth, Weddings and Funerals -. *Journal of the Korean Society of Food Culture*. 2019;34(5):508-533.
44. **Shin D**, Song WO. Influence of the Adequacy of the Prenatal Care Utilization Index on Small-For-Gestational-Age Infants and Preterm Births in the United States. *J Clin Med*. 2019;8(6):E838.
45. **Shin D**, Shin J, Lee KW. Effects of Inflammation and Depression on Telomere Length in Young Adults in the United States. *J Clin Med*. 2019;8(5):E711.
46. **Shin D**, Lee KW, Brann L, Shivappa N, Hébert JR. Dietary inflammatory index is positively associated with serum high-sensitivity C-reactive protein in the Korean adult population. *Nutrition*. 2019;63-64:155-161.
47. Chung HK, **Shin D**, Chung KR, Woo N. Research on Joseon royal birthday cuisine memos. *Journal of Ethnic Foods*. 2018;5(4):292-310.
48. Cho KH, Cho EH, Hur J, **Shin D***. Association of sleep duration and obesity according to sex and age in Korean Adults: Results from the Korea National Health and Nutrition Examination Survey 2007–2015. *Journal of Korean Medical Science*. 2018;33(53):e345.
49. **Shin D†**, Hur J†, Cho KH, Cho EH. Trends of self-reported sleep duration in Korean Adults: Results from the Korea National Health and Nutrition Examination Survey 2007-2015. *Sleep Medicine*. 2018;52:103-106.
50. Chikakuda AT, **Shin D**, Comstock SS, Song SJ, Song WO. Compliance to prenatal iron and folic acid supplement use in relation to low birth weight in Lilongwe, Malawi. *Nutrients*. 2018;10(9):E1275. PMID: 30201880
51. **Shin D**, Kwon SC, Kim MH, Lee KW, Choi SY, Shivappa N, Hébert JR, Chung HK. Inflammatory potential of diet is associated with cognitive function in an older adult Korean population. *Nutrition*. 2018;55-56:56-62. PMID: 29960158

52. Lee KW, **Shin D***. A healthy beverage consumption pattern is inversely associated with the risk of obesity and metabolic abnormalities in Korean adults. *J Med Food*. 2018;21(9):935-945. PMID: 29569988 (The article was selected as a “**High-Impact Article**” in the October 2018 issue.)
53. Cho EH, **Shin D**, Cho KH, Hur J. Prevalences and management of diabetes and pre-diabetes among Korean teenagers and young adults: Results from the Korea National Health and Nutrition Examination Survey 2005-2014. *Journal of Korean Medical Science*. 2017;32(12):1984-1990. PMID: 29115080
54. Chung HK, **Shin D**, Chung KR, Choi SY, Woo N. Recovering the royal cuisine in Chosun Dynasty and its esthetics. *Journal of Ethnic Foods*. 2017;4(4):242-253.
55. **Shin D**, Hur J, Cho EH, Chung HK, Shivappa N, Wirth M, Hébert JR, Lee KW. Pre-pregnancy body mass index is associated with dietary inflammatory index and C-reactive protein concentrations during pregnancy. *Nutrients*. 2017;9(4):E351. PMID: 28368304
56. **Shin D**, Lee KW, Song WO. Dietary patterns during pregnancy are associated with gestational weight gain. *Matern Child Health J*. 2016;20(12):2527-2538. PMID: 27456307
57. Lee KW, **Shin D**, Song WO. Total water intake from beverages and foods is associated with energy intake and eating behaviors in Korean adults. *Nutrients*. 2016;8(10):E617. PMID: 27782040
58. Kim WK, **Shin D**, Song WO. Are dietary patterns associated with depression in US adults? *J Med Food*. 2016;19(11):1074-1084. PMID: 27696939
59. Chung HK, Yang HJ, **Shin D**, Chung KR. Aesthetics of Korean foods: The symbol of Korean culture. *Journal of Ethnic Foods*. 2016;3(3):178-188.
60. **Shin D**, Lee KW, Song WO. Prepregnancy weight status is associated with diet quality and nutritional biomarkers during pregnancy. *Nutrients*. 2016;8(3):E162. PMID: 26978398
61. Lee KW, **Shin D**, Song WO. Low urinary iodine concentrations associated with dyslipidemia in US adults. *Nutrients*. 2016;8(3):E171. PMID: 26999198
62. Lee KW, **Shin D**, Cho MS, Song WO. Food group intakes as determinants of iodine deficiency among US adult population. *Nutrients*. 2016;8(6):E325. PMID: 27240399
63. Lee KW, Cho MS, **Shin D**, Song WO. Changes in iodine status among US adults, 2001-2012. *Int J Food Sci Nutr*. 2016;67(2):184-192. PMID: 26883401
64. **Shin D**, Lee KW, Song WO. Dietary patterns during pregnancy are associated with risk of gestational diabetes mellitus. *Nutrients*. 2015;7(11):9369-9382. PMID: 26569302
65. **Shin D**, Song SJ, Krumhar K, Song WO. Snack patterns are associated with biomarkers of glucose metabolism in U.S. men. *Int J Food Sci Nutr*. 2015;66(5):595-602. PMID: 26186098
66. Kim WK, **Shin D**, Song WO. Depression and its comorbid conditions more serious in women than in men in the United States. *Journal of Women's Health*. 2015;24(12):978-985. PMID: 26131726
67. **Shin D**, Song WO. Prepregnancy BMI is an independent risk factor for gestational hypertension, gestational diabetes, preterm labor, and small- and large-for-gestational-age infants. *J Matern Fetal Neonatal Med*. 2015;28(14):1679-1686. PMID: 25211384
68. Song WO, Song SJ, Gonzalez A, **Shin D**, Nieves V. Parents' BMI and weight perception are associated with overweight and obesity among children in Michigan Migrant and Seasonal Farm Worker families. *Jacobs Journal of Community Medicine*. 2015;1(1):3-8.

69. **Shin D**, Chung H, Weatherspoon L, Song WO. Validity of prepregnancy weight status estimated from self-reported height and weight. *Matern Child Health J.* 2014;18(7):1667-1674. PMID: 24337814
70. **Shin D**, Bianchi L, Chung H, Weatherspoon L, Song WO. Is gestational weight gain associated with diet quality during pregnancy? *Matern Child Health J.* 2014;18(6):1433-1443. PMID: 24162550
71. Song WO, Chun OK, Hwang I, Shin HS, Kim BG, Kim KS, Lee SY, **Shin D**, Lee SG. Soy isoflavones as safe and functional ingredient. *J Med Food.* 2007;10(4):571-580. PMID: 18158825

GRANT SUPPORT

Ongoing Projects

Development of a Multi-Omics-Based Nutrigenomics/Metabolomics Model to Predict the Onset of Metabolic Syndrome

Role: Principal Investigator

National Research Foundation of Korea (NRF) – Outstanding Young Researcher Program

April 1, 2024 – March 31, 2028

Research on Inhibition of Alzheimer's Tau Pathology by Exercise Myokine Irisin and Its Exercise Mimetic Effects

Role: Co-Investigator

National Research Foundation of Korea (NRF) – Global Humanities and Social Convergence Research Program (Research Group Support)

June 1, 2025 – February 29, 2028

Completed Projects

Humanities and Science of Seasonings

Role: Principal Investigator

Ottogi Ham Tae-Ho Foundation – Publication Support Program

January 1, 2024 – February 28, 2026

Operation of Children's Health-Up! Dietary Education Program

Role: Principal Investigator

Educational Operation Revenue Project

April 11, 2025 – October 31, 2025; also 2021, 2022, 2023, 2024

Development of Efficacy/Standardization Technology for Marine Healing Resources and Lifecycle Safety Management

Sub-project Title: Clinical Efficacy Study of Life-Integrated Medical Convergence Healing Programs Using Disease-Tailored Marine Healing Resources

Role: Co-Principal Investigator

Ministry of Oceans and Fisheries / Korea Institute of Marine Science & Technology Promotion (KIMST)

April 1, 2022 – December 31, 2024

Investigation of the Effects of Macronutrient Intake and Gene-Diet Interactions on Metabolic Syndrome

Role: Principal Investigator

National Research Foundation of Korea (NRF)

March 1, 2020 – February 28, 2023

Personalized Nutritional Management and Information Provision for Nutritionally Vulnerable Populations Including Adults at Risk of Dementia

Role: Co-Investigator

May 23, 2023 – November 30, 2023

Identification of Chronic Disease-Preventive Food Ingredients and Dietary Pattern Analysis Using National Health and Dietary Databases

Role: Co-Investigator

May 19, 2022 – November 14, 2022

Development and Validity Testing of Evaluation Items for AI Algorithm-Based Personalized Supplement Recommendations

Role: Principal Investigator

August 23, 2021 – April 30, 2022

Identification of the Gene-Diet Nexus in Depression in U.S. Adults

Role: Principal Investigator

David B. Falk College Research Center Seed Grant, Syracuse University

July 1, 2018 – December 31, 2018

A Study on the Socio-cultural Context, Status, and Developmental Strategies of Eating Alone

Role: Co-Investigator

Youlchon Foundation with Korea University

November 1, 2017 – October 30, 2018

Association of Prepregnancy Body Mass Index with Dietary Inflammatory Index and Concentrations of C-Reactive Protein during Pregnancy

Role: Principal Investigator

College of Nursing and Professional Disciplines (CNPD) Seed Grant, Office of Research & Grants Management, University of North Dakota

January 1, 2017 – December 31, 2017

ONLINE ARTICLE

Shin D & Drzal N. 2016. ["Tips to Create Healthier School Environments"](#) The eXtension Foundation, Kansas City, MO.

INVITED TALKS

Shin D. Predicting metabolic syndrome onset timing based on nutritional genetics and metabolites: A multi-omics approach. Cardiovascular Health Research Unit, University of Washington, Seattle, January 21, 2026.

Shin D. Gene-Diet Nexus in Metabolic Syndrome: Current Evidence and Future Directions. Korean Society of Cardio-Metabolic Syndrome Fall Conference, November 1, 2025.

Shin D. Machine Learning-Based Precision Nutrition for Protein in Metabolic Syndrome. Korean Nutrition Society International Conference and Annual Meeting, October 31, 2025.

Shin D. Gene-Diet Interactions on Metabolic Diseases. The Korean Society of Food Science and Nutrition International Symposium and Annual Meeting, October 24, 2024.

Shin D. Nutrition for the Prevention and Management of Sarcopenia. International Congress of Osteoporosis 2023, Seoul, South Korea, November 4, 2023.

Shin D. Determinants of gestational diabetes mellitus: Prepregnancy weight status and dietary patterns during pregnancy. Grand Forks Human Nutrition Research Center: USDA-ARS, Grand Forks, ND, August 9, 2016.

Shin D. Korean Cuisine: A Cultural Journey. Advanced Center for Korean Studies. Andong, South Korea, July 1, 2016.

CONFERENCE ORAL PRESENTATIONS (PUBLISHED ABSTRACTS)

1. **Shin D**, Lee KW, Brann L, Shivappa N, Hébert JR. A dietary inflammatory index is associated with serum high-sensitivity C-reactive protein in Korean adults: the 2015 Korea National Health and Nutrition Examination Survey. Nutrition 2018, Hynes Convention Center, Boston, MA. June 11, 2018.
2. **Shin D**, Song WO. Prepregnancy body mass index is an independent risk factor for pregnancy complications and poor birth outcomes. Experimental Biology 2015, Boston Convention & Exhibition Center, Boston, MA, March 30, 2015.
3. **Shin D**, Kim W, Song SJ, Song WO. Maternal determinants of pregnancy complications, birth outcomes, and postpartum depression. Experimental Biology 2014, San Diego Convention Center, San Diego, CA, April 29, 2014.
4. **Shin D**, Song SJ, Baik HY, Song WO. Meal and snack patterns associated with biomarkers of glucose metabolism, diet quality and weight status in US adults. Experimental Biology 2013, Boston Convention & Exhibition Center, Boston, MA, April 21, 2013.
5. **Shin D**, Song WO. Validity of BMI calculated from self-reported height and weight of men vs. women in the US: NHANES 2005-06. Academy of Nutrition and Dietetics, Food & Nutrition Conference & Expo 2011, San Diego Convention Center, San Diego, CA, September 25, 2011.
6. **Shin D**, Song WO. Determinants of valid estimation of prepregnant BMI. Experimental Biology 2011, Walter E. Washington Convention Center, Washington, DC, April 12, 2011.

CONFERENCE POSTER PRESENTATIONS (PUBLISHED ABSTRACTS)

1. Lee KW, **Shin D**. Association of Dietary Acid Load with the Risk of Insulin Resistance in Middle-Aged and Older Korean Adults. Nutrition 2020.
2. Kubuga CK, **Shin D**, Song WO. Determinants of Dietary Patterns of Mother-Child Dyads in Ghana. Nutrition 2020.
3. Salmon K, **Shin D**, Kmush B, Wallia B, Bellows A, Larsen D. Evidence of Declining Dietary Diversity Among Children Aged 1-5 Years Between 2005 and 2017 in Lower-Income Countries. Nutrition 2020.
4. **Shin D**, Hur J. Predictive Modeling of Postpartum Depression Using Machine Learning Approaches. Nutrition 2019, Baltimore Convention Center, Baltimore, MD. June 10, 2019.
5. Lee KW, **Shin D**. Night eating is associated with an increased risk of depression and depressive symptoms in Korean adults. Nutrition 2018, Hynes Convention Center, Boston, MA. June 10, 2018.
6. Lee KW, **Shin D**. The influence of weight status on the association between night eating and sleep duration of Korean adults. Nutrition 2018, Hynes Convention Center, Boston, MA. June 10, 2018.
7. **Shin D**, Lee KW, Hur J, Chung HK, Shivappa N, Wirth MD, Hébert JR. Prepregnancy body mass index is positively associated with dietary inflammatory index and C-reactive protein concentrations during pregnancy. Experimental Biology 2017, McCormick Convention Center, Chicago, IL. April 23, 2017.

8. **Shin D**, Lee KW, Tande DL, Hur J, Shivappa N, Wirth MD, Hébert JR. Effects of dietary inflammatory index and history of gestational diabetes mellitus on insulin resistance. Experimental Biology 2017, McCormick Convention Center, Chicago, IL. April 24, 2017.
9. Lee KW, **Shin D**, Song WO. Beverage patterns are associated with the risk factors of obesity and metabolic syndrome in Korean adults. Experimental Biology 2017, McCormick Convention Center, Chicago, IL. April 24, 2017.
10. **Shin D**, Lee KW, Song WO. Diet quality during pregnancy is inversely associated with prepregnancy weight status. Experimental Biology 2016, San Diego Convention Center, San Diego, CA, April 3, 2016.
11. Lee KW, **Shin D**, Cho MS, Song WO. Iodine status is associated with dyslipidemia in U.S. adults. Experimental Biology 2016. San Diego Convention Center, San Diego, CA. April 4, 2016.
12. Lee KW, Cho MS, **Shin D**, Song WO. Iodine status has changed between 2001 and 2012 in US adults. Experimental Biology 2016. San Diego Convention Center, San Diego, CA. April 4, 2016.
13. **Shin D**, Song WO. Risk of gestational diabetes mellitus associated with dietary patterns during pregnancy may not be mediated by inflammation. Experimental Biology 2015, Boston Convention & Exhibition Center, Boston, MA, March 30, 2015.
14. **Shin D**, Chung H, Song WO. Diet quality during pregnancy is not associated with adequate gestational weight gain. Experimental Biology 2014, San Diego Convention Center, San Diego, CA, April 28, 2014.
Top 10 Finalists for Nutrition Translation Research Interest Section Poster Competition for Graduate Students and Post-docs
15. **Shin D**, Nieves V, Groth J, Song WO. Liquid consumption, but not pesticide exposure, was a determinant of diabetes in migrant and seasonal farmworker women in Michigan. Experimental Biology 2014, San Diego Convention Center, San Diego, CA, April 28, 2014.
16. Kim W, **Shin D**, Song SJ, Song WO. Insulin resistance and lipid profile in diabetic adults with depression. Experimental Biology 2014, San Diego Convention Center, San Diego, CA, April 28, 2014.
17. Song SJ, Gonzalez A, **Shin D**, Nieves V, Song WO. Mother's conception on weight status was a determinant of obesity among Michigan migrant seasonal farm worker families. Experimental Biology 2014, San Diego Convention Center, San Diego, CA, April 28, 2014.
18. **Shin D**, Hunt E, Song WO. Sociodemographic determinants of diet quality in US pregnant women. Academy of Nutrition and Dietetics, Food & Nutrition Conference & Expo 2013, George R. Brown Convention Center, Houston, TX, October 22, 2013.
19. Gonzalez A, Billings L, **Shin D**, Rosenbaum R, Song WO. Health disparities in Migrant and Seasonal Farmworker Children in Michigan. Academy of Nutrition and Dietetics, Food & Nutrition Conference & Expo 2013, George R. Brown Convention Center, Houston, TX, October 22, 2013.
20. **Shin D**, Krumhar K, Richardson R, Song WO. Daily eating frequency is associated with diet quality and weight status in US adults. Experimental Biology 2013, Boston Convention & Exhibition Center, Boston, MA, April 22, 2013. **Top 8 Finalists for the Community and Public Health Nutrition Research Interest Section Poster Competition for Graduate Students**
21. **Shin D**, Song WO. Consistencies in the quality of meals vs. snacks reflect biomarkers of health risks in US adults. Experimental Biology 2013, Boston Convention & Exhibition Center, Boston, MA, April 22, 2013.
22. **Shin D**, Song WO. Pregnancy BMI and gestational weight gain as determinants of prepregnancy complications and outcomes by race/ethnicity. Experimental Biology 2012, San Diego Convention Center, San Diego, CA, April 22, 2012. **Top 8 Finalists for the Community and Public Health Nutrition Research Interest Section Poster Competition for Graduate Students**

23. **Shin D**, Song WO. Pregnancy BMI and gestational weight gain as determinants of prepregnancy complications and outcomes by race/ethnicity. MSU Women's Health Research Conference, MSU Union, February 14, 2012.
24. **Shin D**, Bianchi L, Song WO. Rate of gestational weight gain associated with prepregnant BMI, diet quality, and nutrition-related behaviors during pregnancy. Experimental Biology 2011, Walter E. Washington Convention Center, Washington, DC, April 11, 2011.

PROFESSIONAL SERVICE

Associate Editor

- Nutrition Research and Practice (2023-Present)

Editorial Board Member

- Journal of the Korean Dietetic Association (2018-Present)
- Public Health Weekly Report, Korea Disease Control and Prevention Agency (KDCA) (2021–Present)
- Journal of the Korean Society of Food Culture (2026–Present)

Chair

- International Partnership Special Committee, The Korean Nutrition Society (2024–Present)
- Nutrition Big Data Division, Korean Society of Community Nutrition (2020)

Director of Public Relations

- The Korean Society of Clinical Nutrition (2025–Present)

Academic Committee Member

- The Korean Society of Clinical Nutrition (2020–2024)
- Korean Society of Community Nutrition (2021)

Regional Chair (Incheon/Gyeonggi)

- National Association of Food and Nutrition Professors (2021–2025)

Revision Committee Member (Magnesium),

- 2025 Korean Dietary Reference Intakes, The Korean Nutrition Society (2023–2025)

Guest Editor

- Fibers (Special Issue: Dietary Fiber and Human Health) (2017-2018)

Ad Hoc Reviewer

- Public Health Nutrition (2016-Present)
- BMJ Open (2016-Present)
- Nutrients (2016-Present)
- International Journal of Environmental Research and Public Health (2017-Present)
- British Journal of Nutrition (2018-Present)

Abstract Reviewer

- Nutrition 2018 - American Society for Nutrition's annual meeting (2018)

DEPARTMENTAL SERVICE

Department of Public Health, Food Studies and Nutrition, Syracuse University

- Graduate Student Admissions Committee (Fall 2017-Fall 2018)
- Comprehensive Exam Committee (Spring 2018- Fall 2018)
- Student Awards Committee (Spring 2018- Fall 2018)

Department of Nutrition & Dietetics, University of North Dakota

- Tenure & Promotion Policy Committee (Spring 2017)

- Workload Policy Committee (Spring 2017)
- Undergraduate & Graduate Scholarships Committee (Spring 2017)

TEACHING EXPERIENCES

University Teaching

Department of Food and Nutrition, Inha University

- FAN 2303 Nutrition (Undergraduate)
- FAN 3306 Advanced Nutrition (Undergraduate)
- FAN 3404 Nutrition Assessment and Lab. (Undergraduate)
- FAN 4310 Diet Therapy and Practice (Undergraduate)
- FAN 5011 Clinical Nutrition Research (Graduate)

Department of Public Health, Food Studies and Nutrition, Syracuse University

- NSD 225 Nutrition in Health (Undergraduate)
- NSD 455 Community Nutrition (Undergraduate)
- NSD 457 Research and Evaluation in Nutrition (Undergraduate)

Department of Nutrition & Dietetics, University of North Dakota

- N&D 245 Nutrition Throughout the Life Cycle (Undergraduate)
- N&D 341 Community Nutrition I (Undergraduate)
- N&D 342 Community Nutrition II (Undergraduate)
- N&D 494 Research in Nutrition & Dietetics (Undergraduate)
- N&D 594 Research Methods in Nutrition (Graduate)

Guest Lecturer

Department of Public Health, Food Studies and Nutrition, Syracuse University

- NSD 555 Food, Culture and Environment (Undergraduate)

Department of Nutrition & Dietetics, University of North Dakota

- N&D 335 World Food Patterns (Undergraduate)

Department of Food Science and Human Nutrition, Michigan State University

- HNF 375 Community Nutrition (Undergraduate)
- HNF 823 Research Methods in Human Nutrition (Graduate)

Graduate Teaching Assistant

Department of Food Science and Human Nutrition, Michigan State University

- HNF 150 Intro to Human Nutrition (Undergraduate)
- HNF 300 Experimental Approaches to Foods (Undergraduate)
- HNF 375 Community Nutrition-Online Course (Undergraduate)

EXTRA-STATISTICAL TRAINING

Introduction to Genetics and Genomics, Population Genetic Data Analysis & Genetic Epidemiology Workshops, Summer Institute in Statistical Genetics (SISG), University of Washington, Seattle (July 10-July 21, 2017)

Structural Equation Models with Latent Variables & Applied Multilevel Models Workshops, Interuniversity Consortium for Political and Social Research (ICPSR), University of Michigan, Ann Arbor (July 22-August 16, 2013)

Integrated Data Analysis for Addiction Research Workshop, Interuniversity Consortium for Political and Social Research (ICPSR), University of Michigan, Ann Arbor (July 1-July 3, 2013)