

CURRICULUM VITAE
LISA JAHNS, PhD, RD

CONTACT INFORMATION

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EDUCATION

2004	Ph.D. Nutritional Epidemiology	University of North Carolina at Chapel Hill
1998	B.S. Nutrition & Dietetics	Texas Christian University

LICENSURE

1998 Registered Dietitian (RD), Commission on Dietetic Registration 863009

PROFESSIONAL EXPERIENCE

2009-present	Research Nutritionist	USDA-ARS, Grand Forks Human Nutrition Research Center
2010-present	Adjunct Professor	Department of Nutrition, University of North Dakota, Grand Forks, ND
2004-2009	Assistant Professor	Department of Nutrition, University of Tennessee, Knoxville, TN
2005	Summer: Visiting Scholar	Bloomberg School of Public Health, Johns Hopkins University
1998-2004	Research Assistant	Carolina Population Center, University of North Carolina
	Scientific Advisor/Mentor:	Barry Popkin

RESEARCH INTERESTS

- Dietary assessment; use of technology and biomarkers including skin carotenoid status in human trials.
- Testing adherence to and health benefits of following the Dietary Guidelines for Americans dietary intake recommendations; diet quality.
- Effects of increased vegetable and fruit consumption on psychological and physical health parameters and body weight.
- Behavioral economics constructs to increase vegetable and fruit consumption, including the reward value of food and executive function assessment and training for maintenance of healthy weight.

GRANT SUPPORT

• NIH – NHLBI - **SUBMITTED APPLICATION**

Title: *Examining validity and sensitivity of Pressure-Mediated Reflection Spectroscopy as a measure of fruit and vegetable consumption in a diverse community sample* (2019-2023)
PI: Stephanie Jilcott-Pitts

Role: Co-Investigator

- NIH - A Student-Centered, Entrepreneurship Development (ASCEND) Training Model to Increase Diversity in the Biomedical Research Workforce (2017-2018)
Title: *Skin Carotenoids: A Biomarker of Fruit and Vegetable Intake in African Americans*
PI: Bahram Faraji
Role: Collaborator
- Egg Nutrition Center (2015-2017)
Title: *Egg consumption in the US: Using Observational Data and Behavioral Economics to Examine Intake, Nutrient Contribution and Affordability*
Role: Principal Investigator
- USDA, Agriculture and Food Research Initiative (2010-2013)
Title: *National Nutrient Databank Conference*
PI: Julie Eichenberger-Gilmore
Role: Co-Investigator
- USDA, Southern Rural Development Center (2007-2008)
Title: *Sociodemographic Factors, Food Stamp Participation and Health: The Case of Low-Income Individuals in Tennessee*
PI: Steven Yen
Role: Co-Investigator
- USDA, Cooperative State Research, Education, and Extension Service (Now AFRI) (2007-2011)
Title: *Epidemiologic Tools to Assess Obesity-Related Energy and Nutrient Intakes*
Role: Principal Investigator
- University of Tennessee, Educational Technology Collaborative Project RITE (2006)
Title: *Learning beyond the classroom: Blogging for reflection, retention and application of learned concepts*
PI: Trena Paulus, PhD
Role: Co-Investigator
- University of Tennessee, Innovative Technology Center, Faculty First Program Grant (2006)
Title: *Teaching Research Methods in Nutrition: Use of online collaboration to teach proposal writing and peer review*
Role: Principal Investigator
- University of Tennessee, Frances Speight Barr Faculty Award (2005)
Poverty and Nutrient Intake of US Children.
Role: Principal Investigator

INVITED ORAL PRESENTATIONS (NATIONAL)

- **East Carolina University:** Grand Rounds lecture, Departments of Nutrition Science and Public Health: March 2018. *“The use of skin carotenoid status to assess changes in vegetable and fruit intake: Potential public health and clinical applications”*
- **Food & Nutrition Conference & Expo Symposium:** Using the Automated Self-Administered 24-Hour Dietary Assessment Tool (ASA24), Chicago, IL, Oct 2017. *“How ASA24 is being used in research, educational, and clinical settings”*
- **Experimental Biology Symposium:** Introducing the HEI-2015: A Tool to Assess Patterns with Regard to the 2015-2020 Dietary Guidelines for Americans, Chicago, IL, April 2017. *“Generating HEI scores using ASA24”*
- **Experimental Biology Symposium:** Innovative Techniques to Evaluating Behavioral Nutrition Interventions in the Community, San Diego, CA, April 2016. *“The special case of fruit and vegetables: Assessing community intervention effectiveness using skin carotenoid status”*
- **University of Minnesota,** Minneapolis, MN. March, 2015. *“Can skin carotenoid status be used to detect changes in vegetable and fruit intake?”*
- **Sanford Obesity Symposium,** Fargo, ND. March, 2015. *“Obesity prevention: What we know, what we hope, and what the science tells us”*
- **17th Triennial International Symposium on Carotenoids,** Park City, UT, July 2014. *“Skin and plasma response to a provided intervention diet high in vegetables and fruits”*
- **Carotenoids Gordon Research Conference,** Ventura, CA. Jan, 2013. *“Utilization of a dermal carotenoid detection device to quantify changes in fruit and vegetable intake”*
- **Purdue University,** Interdepartmental Nutrition Program (INP) Seminar, West Lafayette, IN, Feb, 2012. *“Can skin carotenoid levels be used to assess the effectiveness of fruit and vegetable interventions?”*

PROFESSIONAL ACTIVITIES AND SERVICE

American Society for Nutrition

- 2018 Chair: *The role of fruits and vegetables in psychological well-being*
 2018 Judge: Emerging Leaders Poster Competition, Nutritional Epidemiology
 2018 Abstract reviewer, annual meeting
 2017 Chair: *History of the Dietary Guidelines* Symposium
 2016 Chair: *Food environment* mini-symposium
 2016 Co-chair: *Carotenoids and retinoids molecular mechanisms of action* mini-symposium
 2015 Co-chair: *Community and public health nutrition interventions* mini-symposium
 2015 Co-chair: *Carotenoids and retinoids in human health* mini-symposium
 2015-2018 W. O. Atwater Lecture Rating Committee, USDA Agricultural Research Service and American Society for Nutrition
 2013-present Carotenoid and Retinoid Interactive Group
 Steering committee (2013-2018); Chair-elect (2015); Chair (2016)
 2013-present Member, History of Nutrition Committee

Johns Hopkins Global Center on Childhood Obesity

2013-2014 Member

The Obesity Society

- 2010-2013 Abstract reviewer for annual meeting
 2011 Chair-elect, Epidemiology Section

2010 Co-chair: *Nutrition, diet and weight* mini-symposium

National Nutrient Databank Conference

2005-2011 Steering committee; Executive steering committee chair-elect 2010-2011
 2011 Chair: *Innovations for a healthier food supply: public private partnerships for food and nutrient databases* plenary session
 2010 Conference chair (Host) annual meeting, Grand Forks, ND
 2009 Program chair, annual meeting
 2006 Co-chair: *Advances in Database Technology and Database Dissemination and Data for special population groups* oral abstract session
 2004 International Nutrient Databank Directory Committee

Academy of Nutrition and Dietetics

1996-present Member

Ad hoc Journal Reviewer –past 5 years

Journal of Nutrition	International Journal of Environmental Research and Public Health
International Journal of Behavioral Nutrition and Physical Activity	Public Health Nutrition
European Journal of Clinical Nutrition	American Journal of Preventive Medicine
Preventing Chronic Disease	PlosOne
Nutrition Journal	Nutrients
American Journal of Clinical Nutrition	Lipids
Obesity Reviews	Maternal and Child Health
British Journal of Nutrition	Childhood Obesity
Appetite	Pediatric Obesity

Ad hoc Reviewer - grants

2016 Egg Nutrition Center
 2013 Johns Hopkins Global Obesity Prevention Center pilot studies core grant program
 2009 AFRI Human Nutrition and Obesity, NIFA

Invited Guest Editor for the journal *Nutrients* special issue “Diet Diversity and Diet Quality”

AWARDS AND HONORS

2010 ARS Professional Development Award
 2007 Dannon Institute’s Nutrition Leadership Institute
 2003 Dissertation Completion Fellowship, University of North Carolina
 2001 American Society for Nutritional Sciences travel award, 17th International Congress of Nutrition, Vienna, Austria
 2001 Fogarty Research and Training travel award, Russian Institute of Nutrition, Moscow, Russian Federation
 1998 Joseph E. Pogue Fellowship, University of North Carolina

PUBLICATIONS**Dissertation**

Jahns L. “Methodological explorations in intra-individual differences in children’s nutrient intake” University of North Carolina at Chapel Hill.

Peer-Reviewed

**Italicized authors designate postdoctoral supervisee*

57. Conrad Z, Thomson J, **Jahns L**. Prospective analysis of vegetable amount and variety on the risk of all-cause and cause-specific mortality among US adults, 1999-2011. *Nutrients*. 2018. doi: 10.3390/nu10101377.
56. **Jahns L**, Conrad Z, Johnson LK, Raatz LK, Kranz S. Recognition of federal dietary guidance icons is associated with greater diet quality. *Journal of the Academy of Nutrition and Dietetics*. 2018 doi: 10.1016/j.jand.2018.05.026.
55. Min J, **Jahns L**, Xue H, Kandiah J, Wang Y. Americans’ perceptions about fast food and how they associate with its consumption and obesity risk. *Advances in Nutrition*. 2018 Sep; 9(5):590-601. doi: 10.1093/advances/nmy032.
54. Raatz SK, Conrad Z, **Jahns L**, Belury MA, Picklo MJ. Modeled replacement of traditional soybean and canola oil with high-oleic varieties increases monounsaturated fatty acid and reduces both saturated fatty acid and polyunsaturated fatty acid intake in the US adult population. *The American Journal of Clinical Nutrition*. 2018. doi.org/10.1093/ajcn/nqy127.
53. Bukowski MR, Voeller K, **Jahns L**. Simple and sensitive dilute-and-shoot analysis of carotenoids in human plasma. *J Chromatography B Analytic Technol Biomed Life Sci*. 2018 Jul 18;1095:32-38. doi: 10.1016/j.jchromb.2018.07.020.
52. Conrad Z, **Jahns L**, Roemmich JN. Study design for a clinical trial to examine food price elasticity among participants in federal food assistance programs: A laboratory-based grocery store study. *Contemporary Clinical Trials Communication*. 2018 May 7;10:154-160. doi: 10.1016/j.conctc.2018.05.011.
51. Cao JJ, Whigham LD, **Jahns L**. Depletion and repletion of fruit and vegetable intake alters serum bone turnover markers: a 28-week single-arm experimental feeding intervention. *British Journal of Nutrition*. 2018 Jul 19:1-8. doi: 10.1017/S0007114518001642.
50. Conrad Z, Raatz SK, **Jahns L**. Greater vegetable variety and amount are associated with lower prevalence of coronary heart disease: National Health and Nutrition Examination Survey, 1999-2014. *Nutrition Journal*. 2018 Jul 10;17(1):67. doi: 10.1186/s12937-018-0376-4.
49. Raatz SK, Conrad Z, **Jahns L**. Trends in linoleic acid intake in the United States adult population: NHANES 1999-2014. *Prostaglandins, Leukotrienes and Essential Fatty Acids*. 2018 June 133:23-28. doi: 10.1016/j.plefa.2018.04.006.

48. Conrad Z, Johnson LK, Roemmich JN, Juan W, **Jahns L**. Nutrient intake disparities in the US: Modeling the effect of food substitutions. *Nutrition Journal*. 2018 May 17;17(1): 53. doi: 10.1186/s12937-018-0360-z.
47. Conrad Z, Niles M, Neher D, Roy E, Tichenor N, **Jahns L**. Relationship between diet quality, food waste, and environmental sustainability. *PLoS One*. 2018 Apr 18; 13(4):e0195405. doi:10.1371/journal.pone.0195405.
46. Conrad Z, Peters C, Johnson LK, **Jahns L**. Capacity of the US food system to accommodate improved diet quality: A biophysical model projecting to 2030. *Current Developments in Nutrition*. 2018 Jan 29; 2(4):nzy007. doi:https://doi.org/10.1093/cdn/nzy007.
45. **Jahns L**, Davis-Shaw W, Lichtenstein AH, Murphy SP, Conrad Z, Nielsen F. The history and future of dietary guidance in America. *Advances in Nutrition*. 2018 Mar 1; 9(2):136-147. doi:10.1093/advances/nmx025.
44. Ermakov IV, Ermakova M, Sharifzadeh M, Gorusupudi A, Farnsworth K, Bernstein PS, Stookey J, Evans J, Arana T, Tao-Lew L, Isman C, Clayton A, Obana A, Whigham L, Redelfs AH, **Jahns L**, Gellermann W. Optical assessment of skin carotenoid status as a biomarker of vegetable and fruit intake. *Archives of Biochemistry and Biophysics*. 2018 May 15; 646:46-54. doi:10.1016/j.abb.2018.03.033.
43. **Jahns L**, Conrad Z, Johnson LK, Whigham LD, Wu D, Claycombe-Larson KJ. A diet high in carotenoid-rich vegetables and fruits favorably impacts inflammation status by increasing plasma concentrations of IFN- α 2 and decreasing MIP-1 β and TNF- α in healthy individuals during a controlled feeding trial. *Nutrition Research*. 2018 Apr; 52:98-104. doi:10.1016/j.nutres.2018.02.005.
42. Jilcott Pitts SB, **Jahns L**, Wu Q, Moran NE, Bell RA, Truesdale KP, Laska MN. A non-invasive assessment of skin carotenoid status through reflection spectroscopy is a feasible, reliable and potentially valid measure of fruit and vegetable consumption in a diverse community sample. *Public Health Nutrition*. 2018 Jun; 21(9):1664-1670. doi:10.1017/S136898001700430X.
41. Conrad Z, Peters CJ, Chui K, **Jahns L**, Griffin TS. Agricultural capacity to increase the production of select fruits and vegetables in the US: A geospatial modeling analysis. *International Journal of Environmental Research and Public Health*. 2017 Sep 23; 14(10). pii: E1106. doi:10.3390/ijerph14101106.
40. Raatz SK, **Jahns L**, Johnson LK, Scheett A, Carriquiry A, Lemieux A, Nakajima M, al'Absi M. Smokers report lower intake of key nutrients than nonsmokers, yet both fall short of meeting recommended intakes. *Nutrition Research*. 2017 Sep; 45:30-37. doi:10.1016/j.nutres.2017.07.010.
39. Conrad Z, **Jahns L**, Peters CJ, Griffin TS. Characterizing trends in fruit and vegetable intake in the USA by self-report and by supply-and-disappearance data: 2001-2014. *Public Health Nutrition*. 2017 Dec; 20(17):3045-3050. doi:10.1017/S1368980017002385.

38. Raatz SK, Conrad Z, Picklo MP, **Jahns L**. Relationship of the reported intakes of fat and fatty acids to body weight in US adults. *Nutrients*. 2017 Apr 28; 9(5). pii: E438. doi:10.3390/nu9050438.
37. Conrad Z, Johnson LK, Roemmich JN, Juan WY, **Jahns L**. Time trends and patterns of reported egg consumption in the U.S. by sociodemographic characteristics. *Nutrients*. 2017 Mar 28; 9(4). pii: E333. doi:10.3390/nu9040333.
36. Kranz S, Dodd KW, Juan WY, Johnson LK, **Jahns L**. Whole grains contribute only a small proportion of dietary fiber to the U.S. diet. *Nutrients*. 2017 Feb 17; 9(2). pii: E153. doi:10.3390/nu9020153.
35. Conrad Z, Karlsen M, Chui K, **Jahns L**. Diet quality on meatless days: National Health and Nutrition Examination Survey (NHANES), 2007-2012. *Public Health Nutrition*. 2017 Jun; 20(9):1564-1573. doi:10.1017/S136898001700026X.
34. **Jahns L**, Conrad Z, Johnson LK, Scheett AJ, Stote K, Raatz, SK. Diet quality is lower and energy intake higher on weekends compared to weekdays in midlife women: A one-year cohort study. *Journal of the Academy of Nutrition and Dietetics*. 2017 Jul; 117(7):1080-1086.e1. doi:10.1016/j.jand.2017.01.012.
33. Scherr RE, Laugero KD, Graham DJ, Cunningham BT, **Jahns L**, Lora KR, Reicks M, Mobley AR. Innovative techniques for evaluating behavioral nutrition interventions. *Advances in Nutrition*. 2017 Jan 1; 8(1):113-125. doi:https://doi.org/10.3945/an.116.013862
32. Nguyen LM, Scherr RE, Dharmar M, Ermakov IV, Gellermann W, **Jahns L**, Linnell JD, Keen CL, Steinberg FM, Young HM, Zidenberg-Cherr S. Using skin carotenoids to assess dietary changes in students after one academic year of participating in the Shaping Healthy Choices Program. *Journal of Nutrition Education & Behavior*. 2017 Jan; 49(1):73-78.e1. doi:10.1016/j.jneb.2016.09.007.
31. **Jahns L**, Roemmich JN. A randomized controlled trial to increase the relative reinforcing value of vegetable consumption using incentive sensitization: Rationale, design, and methods. *Contemporary Clinical Trials*. 2016 Sep; 50:186-192. doi:10.1016/j.cct.2016.08.011.
30. **Jahns L**, Johnson LK, Scheett AJ, Stote K, Raatz SR, Subar AF, Tande D. Measures of diet quality across calendar and winter holiday seasons among midlife women: A one-year longitudinal study using the automated self-administered 24-hour dietary recall. *Journal of the Academy of Nutrition and Dietetics* 2016 Dec; 116(12):1961-1969. doi:10.1016/j.jand.2016.07.013.
29. Nicklas TA, Liu Y, Giovanni M, **Jahns L**, Tucker KL, Laugero KD, Bogle ML, Chester DN. Association between barriers and facilitators to meeting the Dietary Guidelines for Americans and body weight status of caregiver-child dyads: the Healthy Eating and

- Lifestyle for Total Health Study. *American Journal of Clinical Nutrition*. 2016 Jul; 104(1):143-154. doi:10.3945/ajcn.115.123372.
28. **Jahns L**, Scheett AJ, Johnson LK, Krebs-Smith SM, Payne CR, Whigham LD, Hoverson BS, Kranz S. Diet quality of items advertised in supermarket sales circulars compared to diets of the US population, as assessed by the Healthy Eating Index-2010. *Journal of the Academy of Nutrition and Dietetics*. 2016 Jan; 116(1):115-122. doi:10.1016/j.jand.2015.09.016
 27. Raatz SK, **Jahns L**, Johnson LK, Crosby RD, Mitchell JE, Crow SJ, Peterson CB, le Grange D, Wonderlich SA. Nutritional adequacy of dietary intake in women with Anorexia Nervosa. *Nutrients*. 2015 May 15; 7(5):3652-3665. doi:10.3390/nu7053652.
 26. Nguyen LM, Scherr RE, Ermakon IV, Gellermann W, **Jahns L**, Keen CL, Miyamoto S, Steinberg FM, Young HM, Zidenberg S. Evaluating the relationship between plasma and skin carotenoids and reported dietary intake in elementary school children to assess fruit and vegetable intake. *Archives of Biochemistry and Biophysics*. 2015 Apr 15; 572:73-80. doi:10.1016/j.abb.2015.02.015
 25. Raatz SK, Scheett AJ, Johnson LK, **Jahns, L**. Validity of electronic diet recording nutrient estimates compared to dietitian analysis of diet records: A randomized controlled trial. *Journal of Medical Internet Research*. 2015 Jan 20; 17(1):e21:1-13. doi:10.2196/jmir.3744.
 24. **Jahns L**, McDonald L, Wadsworth A, Morin C, Liu Y, Nicklas TN. Barriers and facilitators to following the Dietary Guidelines for Americans reported by rural, northern plains American-Indian children. *Public Health Nutrition*. 2015 Feb; 18(3):482-489. doi:10.1017/S136898001400041X.
 23. **Jahns L**, Raatz SK, Johnson LK, Kranz S, Picklo MJ. Intake of seafood in the US varies by age, income, and education level but not by race-ethnicity. *Nutrients*. 2014 Dec 22; 6(12):6060-6075. doi:10.3390/nu6126060.
 22. **Jahns L**, McDonald L, Wadsworth A, Morin C, Liu Y. Facilitators and barriers to being physically active on a rural, Northern Plains American Indian reservation. *International Journal of Environmental Research and Public Health*. 2014 Nov 21; 11(11):12053-12063. doi:10.3390/ijerph111112053.
 21. **Jahns L**, Payne CR, Whigham LD, Johnson LK, Scheett AJ, Hoverson BS, Kranz S. Foods advertised in US weekly supermarket sales circulars over one year: a content analysis. *Nutrition Journal*. 2014 Sep 23; 13:95. doi:10.1186/1475-2891-13-95.
 20. **Jahns L**, Johnson LK, Mayne ST, Cartmel B, Picklo MJ, Ermakov IV, Gellermann W, Whigham LD. Skin and plasma carotenoid response to a provided intervention diet high in vegetables and fruits: Uptake and depletion kinetics. *American Journal of Clinical Nutrition*. 2014 Sep; 100(3):930-937. doi:10.3945/ajcn.114.086900
 19. **Jahns L**, Kranz S. High proportions of foods recommended for consumption by United States Dietary Guidance contain solid fats and added sugar: Results from the National

- Health and Nutrition Examination Survey (2007-2008). *Nutrition Journal*. 2014 Mar 20; 13:23. doi:10.1186/1475-2891-13-23.
18. Nicklas T, **Jahns L**, Bogle M, Chester D, Giovanni M, Klurfeld D, Laugero KD, Liu Y, Petersen SJ, Tucker K. Barriers and facilitators for consumer adherence to the Dietary Guidelines for Americans: The HEALTH Study. *Journal of the Academy of Nutrition and Dietetics*. 2013 Oct; 113(10):1317-1331. doi:10.1016/j.jand.2013.05.004
 17. Mayne ST, Cartmel B, Scarmo S, **Jahns L**, Ermakov IV, Gellermann W. Resonance Raman spectrographic evaluation of skin carotenoid status for human studies. *Archives of Biochemistry and Biophysics*. 2013 Nov 15; 539(2):163-170. doi:10.1016/j.abb.2013.06.007
 16. Raatz SK, Silverstein JT, **Jahns L**, Picklo MJ. Issues of fish consumption for cardiovascular disease risk reduction. *Nutrients*. 2013 Mar 28; 5(4):1081-1097. doi:10.3390/nu5041081
 15. Chen X, **Jahns L**, Gittelsohn J, Wang Y. Who is missing the message? Targeting strategies to increase food label use among US adults. *Public Health Nutrition*. 2012 May; 15(5):760-772. doi:10.1017/S1368980011002242
 14. Yen ST, Bruce DJ, **Jahns L**. Supplemental nutrition assistance program participation and health: Evidence from low-income individuals in Tennessee. *Contemporary Economic Policy*. 2012 Jan; 30(1):1-12. doi:10.1111/j.1465-7287.2010.00246.x
 13. **Jahns L**, Adair L, Popkin B. The declining prevalence of overweight among Russian children: Income, diet, and physical activity behavior changes. *Economics and Human Biology*. 2012 Mar; 10(2):139-146. doi:10.1016/j.ehb.2011.07.005.
 12. Childers CC, Haley E, **Jahns L**. Insights into university freshman weight issues and how they make decisions about eating. *Journal of Consumer Affairs*. 2011 Jun 3; 45(2):306-328. doi:https://doi.org/10.1111/j.1745-6606.2011.01204.x
 11. Wang Y, **Jahns L**, Tussing- Humphreys L, Xie B, Rockett H, Liang H, Johnson L. Dietary intake patterns of low-income urban African-American adolescents. *Journal of the American Dietetic Association*. 2010 Sep; 110(9):1340-1345. doi:10.1016/j.ehb.2011.07.005.
 10. Whelan J, **Jahns L**, Kavanagh K. Docosahexaenoic acid: Measurements in food and dietary exposure. *Prostaglandins, Leukotrienes & Essential Fatty Acids* 2009 Aug-Sep; 81(2-3):133-136. doi:10.1016/j.plefa.2009.05.008.
 9. Paulus TM, Payne RL, **Jahns L**. "Am I making sense here?" What blogging reveals about undergraduate student understanding. *Journal of Interactive Online Learning*. 2009; 8(1):1-22. ISSN: 1541-4914.
 8. Graves A, Houghton B, **Jahns L**, Fitzhugh E, Jones S. Biscuits, sausage, gravy, milk, and orange juice: School breakfast environment in four rural Appalachian schools. *Journal of School Health*. 2008 Apr; 78(4):197-202. doi:10.1111/j.1746-1561.2008.00286.x.

7. Judge S, **Jahns, L**. Association of overweight with academic performance and social and behavioral problems: An update from the Early Childhood Longitudinal Study. *Journal of School Health*. 2007 Dec; 77(10):672-678. doi:10.1111/j.1746-1561.2007.00250.x
6. **Jahns L**, Arab L, Carriquiry A, Popkin BM. The use of external within-person variance estimates to adjust nutrient intake distributions over time and across populations. *Public Health Nutrition* 2005 Feb; 8(1):69-76. doi:10.1079/PHN2004671
5. **Jahns L**, Carriquiry A, Arab L, Mroz T, Popkin B. Within- and between-person variation in nutrient intakes of Russian and U.S. children differs by sex and age. *Journal of Nutrition*. 2004 Nov; 134(11):3114-3120. doi:10.1093/jn/134.11.3114
4. **Jahns L**, Baturin A, Popkin BM. Obesity, diet, and poverty: trends in the Russian transition to market economy. *European Journal of Clinical Nutrition* 2003 Oct; 57(10):1295-1302. doi:10.1038/sj.ejcn.1601691
3. Jones SJ, **Jahns L**, Laraia BA, Houghton B. Lower risk of overweight in school-aged food insecure girls who participate in food assistance: Results from the Panel Study of Income Dynamics Child Development Supplement. *Archives of Pediatrics and Adolescent Medicine*. 2003 Aug; 157(8):780-784. doi:10.1001/archpedi.157.8.780
2. Popkin BM, Siega-Riz AM, Haines PS, **Jahns L**. Where's the fat? Trends in US diets 1965-1996. *Preventive Medicine*. 2001Mar; 32(3):245-254. doi:10.1006/pmed.2000.0807
1. **Jahns L**, Siega-Riz AM, Popkin BM. The increasing prevalence of snacking among US children from 1977 to 1996. *Journal of Pediatrics*. 2001 Apr; 138(4):493-498. doi:10.1067/mpd.2001.112162

Invited Commentaries

1. **Jahns L**. Snacking and obesity: Urgency of a definition to explore such a relationship. *Journal of the American Dietetic Association*. 2007; 107(4): 562-563.

Letters in Peer-reviewed Journals

2. **Jahns L**, Jones SJ. "Move Insecurity". *American Journal of Preventive Medicine*. 2004 Feb; 26(2):186
1. **Jahns L**, Arab L, Carriquiry A. Dietary Reference Intakes still used incorrectly in Journal articles. *Journal of the American Dietetic Association*. 2003; 10:1292-1293

Book Chapters

2. **Jahns L**. (2016) Fish intake in the United States. In SK Raatz, DM Bibus (Eds). *Fish and Fish Oil in Health and Disease Prevention*. Academic Press-Elsevier.
1. Keim NL, **Jahns L**. (2013) Energy Assessment: Physical Activity. In CD Berdanier, J T Dwyer, & D Heber (Eds.), *Handbook of Nutrition and Food*. CRC Press.

Conference Abstracts (past 3 years)

- *Conrad Z, Carlson A, Roemmich JN, **Jahns L***. A novel food pricing tool to examine the cost of making healthier food choices among low-income Americans. Nutrition 2018, June 9-12, Boston, MA.
- *Conrad Z, Niles M, Neher DA, Roy ED, Tichenor NE, **Jahns L***. Relationship between food waste, diet quality, and environmental sustainability. Nutrition 2018, June 9-12, Boston, MA.
- ***Jahns L, Conrad Z, Johnson LK, Roemmich JN***. Skin carotenoid status is an effective tool to measure compliance with an intervention to increase vegetable intake among overweight and obese adults. Nutrition 2018, June 9-12, 2018, Boston, MA.
- *Raatz S, Conrad Z, Johnson LK, Picklo M, **Jahns L***. Association of fatty acid intake with weight status in the US population. American Oil Chemists Society Annual Conference, May 3, 2017, Orlando, FL.
- *Raatz S, Conrad Z, **Jahns L**, Belury M, Picklo M*. Modeling the effects of high oleic oil replacement on fatty acid intake in the American diet. Northern Great Plains Lipids Conference, June 11-12, 2017, Winnipeg, Manitoba, Canada.
- *Conrad Z, Johnson LK, Juan W, Roemmich JN, **Jahns L***. Nutrient inadequacy among nutritionally vulnerable populations in the US. Experimental Biology, April 21-26, Chicago, IL. *FASEB Journal*, 31:445.1.
- *Conrad Z, Peters C, Johnson LK, **Jahns L***. The capacity of the US food system to accommodate improved diet quality: projections to 2030. Experimental Biology, April 21-26, Chicago, IL. *FASEB Journal*, 31:651.13.
- *Conrad Z, Karlsen M, Chui K, **Jahns L***. What do people eat when they don't eat meat? An evaluation of dietary quality using the National Health and Nutrition Examination Survey (NHANES), 2007-2012. Experimental Biology 2017, April 21-26, Chicago, IL. *FASEB Journal*, 31:648.10.
- ***Jahns L, Conrad Z, Johnson LK, Roemmich JN, Juan, W.*** Time trends and patterns of reported egg consumption in the US by sociodemographic characteristics. Experimental Biology 2017, April 21-26, Chicago, IL. *FASEB Journal*, 31:648.1.
- ***Jahns L, Conrad Z, John LK, Temple J, Keim N, Roemmich JN.*** Substitution or addition? How overweight and obese adults incorporate vegetables into their diet during a randomized controlled vegetable feeding trial. Experimental Biology 2017, April 21-26, Chicago, IL. *FASEB Journal*, 31:749.9.
- ***Jahns L, Johnson LK, Raatz SK, Scheett, AJ, Stote K.*** Diet Quality is Lower and Energy Intake Greater on Weekends than Weekdays: A One-Year Longitudinal Study of Midlife Women. Experimental Biology 2016, San Diego, CA; *FASEB Journal* 30:906.1.
- *Ermakov V, Whigham LD, Redelfs AH, **Jahns L**, Stookey J, Bernstein PS, Gellermann W.* Skin Carotenoids as Biomarker for Vegetable and Fruit Intake: Validation of the Reflection-Spectroscopy Based "Veggie Meter". Experimental Biology 2016, San Diego, CA; *FASEB Journal*, 30:409.3.
- *Hoffman A, Colby S, **Jahns L***. Changes in front-of-pack food labeling from 2007-2014. Experimental Biology 2015, Boston, MA; *FASEB Journal*, 29:382.2.
- ***Jahns L, Raatz S, Johnson L, Kranz S, Silverstein JT, Picklo M.*** Seafood intake by US adults. Experimental Biology 2015, Boston, MA. *FASEB Journal*, 29:763.30.
- ***Jahns L, Stote K, Madanat H, Cole RE.*** Women's motivations for eating. Experimental Biology 2015, Boston, MA. *FASEB Journal*, 29:736.20.
- ***Jahns L, Scheett AJ, Johnson LK, Hoverson BS, Krebs-Smith SM, Pane CR, Whigham LD, Kranz S.*** Diet quality of supermarket sales circulars measured by the Health Eating Index-

2010. Experimental Biology 2015, Boston, MA. *FASEB Journal*, 29:132.5.

TEACHING, MENTORING, AND SERVICE

University of Tennessee

Teaching

Undergraduate

NTR 412: Food and Nutrition in the Community: Influence of health characteristics, geographic, social, economic, educational, and cultural factors on food and nutrition programming. Relationship of community food and nutrition problems to programs and services for families and communities with particular attention to disease prevention and public policy.

First Year Studies 101: Integration into the academic community, including the nature and purpose of a college education, expectations for academic success, organization of university disciplines, and special emphasis on academic and career planning.

Graduate

NTR 514: Community Nutrition II: Planning, implementation, and evaluation of public health nutrition programs. Concurrent field experiences. (co-taught).

NTR 515: Field Study in Community Nutrition: Personal participation in and analysis of state or regional community nutrition program. Location of in-depth study to be selected in consultation with instructor.

NTR 516: Maternal and Child Nutrition: Nutrition principles related to growth and development during pregnancy, infancy, and childhood to age 5, high risk conditions. (co-taught).

NTR 541: Research Methods: Basic principles of planning, conducting, and interpreting nutrition and foodservice systems administration research.

NTR 544: Survey Methods in Food and Nutrition: Application of survey research methods to nutrition projects: assessment of food consumption, nutrient intake, nutritional status, sociocultural-economic parameters, food production and service.

NTR 548: Directed Study in Nutrition: Advanced study in nutrition.

NTR 549: Special Topics: Recent advances in nutrition or food systems administration.

NTR 600: Doctoral Research and Dissertation

NTR 602: Advanced Topics in Nutrition Science: Comprehensive individual study and group discussion of topics related to current problems in nutrition.

Mentoring

Graduate Advisor:

M.S. Chad Hawkshead, "Association of caffeine consumption and sleep patterns in emerging adults." 2008.

M.S. Eriko Grover, "Associations of subjective social status and perceived stress to dietary behaviors in college students". 2007.

M.S. Jessica Sieber, "Stress and eating behavior: A systematic review". 2007.

M.S. Leah Kittle, "Comparison of mean BMI and frequency of disordered eating behaviors among minority and caucasian sorority women". 2008.

M.S. Rachel Kinney, "Defining a snack: self-definitions and behaviors of college freshman". 2008.

Graduate Committee Member:

MPH PhD. Alexa George “Public health nutrition: A workforce in transition”, graduated, 2008 .
PhD. James Churilla “The relationship between leisure-time physical activity and the metabolic syndrome among U.S. adults: 1999-2004 NHANES”, graduated, 2007.
PhD. Cheryl Hultquist, “Adherence to the 10,000 steps per day recommendation: An examination of researcher contact, self-efficacy, social support, and perceived barriers” graduated, 2007.

Service

Department of Nutrition

Member, faculty search committee (2004-2005)
Member, Dietetic Internship Selection committee (2005-2009)
Chair, faculty search committee (2005-2006)
Member, faculty search committee (2006-2007)

College of Education, Health, and Human Sciences (CEHHS)

Senator, CEHHS Faculty Senate (2005-2008)
Member, CEHHS Awards committee (2006)

University of Tennessee

Member, UT Obesity Research Center (2007-2009)
Member, COEUS (electronic research administration system) Steering Committee (2006-2009)
Elected member, Undergraduate Council (2008-2009)
Elected member, Research Council (2008-2009)
Member, Undergraduate Curriculum Committee (2008-2009)