

CURRICULUM VITAE
LISA JAHNS, PhD, RD

CONTACT INFORMATION

USDA-ARS
Grand Forks Human Nutrition Research Center
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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- Research Nutritionist
USDA-ARS, Grand Forks Human Nutrition Research Center
2010- 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

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

PROFESSIONAL ACTIVITIES AND SERVICE

Professional Societies and service

American Society for Nutrition
2016 Chair: *Food environment* mini-symposium
2016 Co-chair: *Carotenoids and retinoids molecular mechanisms of action* mini-
symposium

- 2015-present W. O. Atwater Lecture Rating Committee, USDA Agricultural Research Service and American Society for Nutrition
- 2015 Co-chair: *Community and public health nutrition interventions* mini-symposium
- 2015 Co-chair: *Carotenoids and retinoids in human health* mini-symposium
- 2013-present Carotenoid and Retinoid Interactive Group
Steering committee (2013); Chair-elect (2015); Chair (2016)
- 2013-present Member, History of Nutrition Committee

Johns Hopkins Global Center on Childhood Obesity
2013-present 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 Reviewer –journals

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|---|---|
| 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

PUBLICATIONS**Peer-Reviewed**

1. 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: The HEALTH study. *American Journal of Clinical Nutrition* (in press).
2. **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; 116:115-122.
3. Raatz SK, **Jahns L**, Johnson LK, Crosby RD, Mitchell JE, Crow SJ, Peterson CB, le Grange D, Wonderlich SA, PhD. Nutritional adequacy of dietary intake in women with Anorexia Nervosa. *Nutrients*. 2015; 7(5):3652-65.
4. 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; 572:572-80.
5. 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; 17(1):e21:1-13.
6. **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; 18(3):482-489.
7. **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; 6(12):6060-75.
8. **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; 11:12053-12063.
9. **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; 13:95.
10. **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; 100:930-937.
11. **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; 13:23.

12. 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; 113:1317-1331.
13. 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; 539:163-170.
14. Raatz SK, Silverstein JT, **Jahns L**, Picklo, Sr. MJ. Issues of fish consumption for cardiovascular disease risk reduction. *Nutrients*. 2013; 5:1081-1097.
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; 15(5):760-772.
16. Yen ST, Bruce DJ, **Jahns L**. Supplemental nutrition assistance program participation and health: Evidence from low-income individuals in Tennessee. *Contemporary Economic Policy*. 2012; 30(1):1-12.
17. **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; 10(2):139-146.
18. Childers CC, Haley E, **Jahns L**. Insights into university freshman weight issues and how they make decisions about eating. *Journal of Consumer Affairs*. 2011; 45(2):306-328.
19. 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(9); 110:1340-1345.
20. Whelan J, **Jahns L**, Kavanagh K. Docosahexaenoic acid: Measurements in food and dietary exposure. *Prostaglandins, Leukotrienes & Essential Fatty Acids* 2009; 81(2-3): 133-136.
21. 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.
22. Graves A, Haughton 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; 78: 197-202.
23. 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; 77(10): 672-678.
24. **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; 8(1):69-76.

25. **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; 134(11): 3114-3120.
26. **Jahns L**, Baturin A, Popkin BM. Obesity, diet, and poverty: trends in the Russian transition to market economy. *European Journal of Clinical Nutrition* 2003. 57(10):1295-1302.
27. Jones SJ, **Jahns L**, Laraia BA, Haughton 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; 157(8):780-784.
28. Popkin BM, Siega-Riz AM, Haines PS, **Jahns L**. Where's the fat? Trends in US diets 1965-1996. *Preventive Medicine*. 2001; 32(3):245-254.
29. **Jahns L**, Siega-Riz AM, Popkin BM. The increasing prevalence of snacking among US children from 1977 to 1996. *Journal of Pediatrics*. 2001 (138); 138:493-498.

Submitted

1. 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. (Submitted to *Journal of Nutrition Education & Behavior* 2016-02-16).
2. **Jahns L**, Johnson LK, Scheett AJ, Stote K, Raatz SR, Subar AF, Tande D. Measures of Diet Quality Across Calendar and Holiday Seasons Among Midlife Women: A One-year Longitudinal Study Using the Automated Self-Administered 24-Hour Dietary Recall. (Submitted to *Journal of the Academy of Nutrition and Dietetics* 2016-03-17).
3. **Jahns L**, Roemmich JN. A randomized controlled trial to increase the relative reinforcing value of vegetable consumption using incentive sensitization: Rationale, design, and methods. (Submitted to *Contemporary Clinical Trials* 2016-05-18).

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. (Invited editorial response)

Letters in Peer-reviewed Journals

1. **Jahns L**, Jones SJ. "Move Insecurity". *American Journal of Preventive Medicine*. 2004; 26(1):186
2. **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

1. **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.

2. 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.

PRESENTATIONS

Invited Presentations

1. 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”
2. University of Minnesota, Minneapolis, MN. March, 2015. “Can skin carotenoid status be used to detect changes in vegetable and fruit intake?”
3. Sanford Obesity Symposium, Fargo, ND. March, 2015. “Obesity prevention: What we know, what we hope, and what the science tells us”
4. 17th Triennial Symposium on Carotenoids, Park City, UT, July 2014. “Skin and plasma response to a provided intervention diet high in vegetables and fruits”
5. Carotenoids Gordon Research Conference, Ventura, CA. Jan, 2013. "Utilization of a dermal carotenoid detection device to quantify changes in fruit and vegetable intake"
6. 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?”
7. North Dakota Dietetic Association Annual Meeting, Grand Forks, ND. April, 2011. “Update on the 2010 Dietary Guidelines for Americans”
8. North Dakota Nutrition Council Annual Conference, Fargo, ND. May 2010. “Are Stress-Eaters at Risk for Unhealthy Weight Gain?”
9. Bismarck-Burleigh Public Health Community Healthy Weight Summit, Bismarck, ND. May, 2009. “Healthy Weight through Community Connections” (Keynote speaker)
10. 27th Annual Nutrition Seminar, Brookings, SD. Feb, 2009. “The Freshman Fifteen: Fact or Fiction?”

Abstracts (past 5 years)

1. Hoffman A, Colby S, **Jahns L.** Changes in front-of-pack food labeling from 2007-2014. *Experimental Biology* 2015, Boston, MA; *FASEB Journal* 2015;29:382.2.
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* 2015;29:763.30.
3. **Jahns L**, Stote K, Madanat H, Cole RE. Women’s motivations for eating. *Experimental Biology* 2015, Boston, MA. *FASEB Journal* 2015;29:736.20.

4. **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* 2015;29:132.5.
5. **Jahns L**, Johnson LK. Seasonality in women's dietary intake: preliminary results from the Life in all Seasons study. Experimental Biology 2014, San Diego, CA. *FASEB Journal* 2014;28:1022.5.
6. **Jahns L**, Whigham L, Johnson LK, Mayne ST, Cartmel B, Ermakov I, Gellermann W. Skin total carotenoids predict plasma carotenoid levels during a 28-week experimental feeding study with varying levels of vegetables and fruit. Experimental Biology 2013, Boston, MA. *FASEB Journal* 2013;27:230.7.
7. Whigham L, **Jahns L**, Claycombe K, Johnson LK. Consumption of carotenoid-rich diet improves plasma inflammatory markers. Experimental Biology 2013, Boston, MA. *FASEB Journal* 2013;27:846.2.
8. Kranz S, Dodd K, Juan W, **Jahns L**, Johnson LK. Essential steps in the analysis of NHANES dietary data. Experimental Biology 2013, Boston, MA. *FASEB Journal* 2013;27:848.2.
9. **Jahns L**, Bogle M, Chester DN, Laugero K, Tucker KL, Nicklas TN. Nominal group technique-elicited barriers and facilitators to following the Dietary Guidelines for solid fats and added sugars in children: the HEALTH study. Food & Nutrition Conference & Expo, Philadelphia, PA, October 2013.
10. **Jahns L**, Wadsworth A, Morin C, McDonald L. Understanding American-Indian children's perceived barriers and facilitators to following the Dietary Guidelines for Americans. Experimental Biology 2012, San Diego, CA. *FASEB Journal* 2012;26:389.8.
11. **Jahns L**, Whigham L, Johnson LK, Mayne S, Cartmel B, Ermakov I, Gellermann W. Dermal carotenoids as measured by resonance Raman spectroscopy as a biomarker of response to a fruit/vegetable intervention study. Experimental Biology 2012, San Diego, CA. *FASEB Journal* 2012;26:131.3.
12. Kranz S, **Jahns L**. Applying the Dietary Guidelines for Americans to the foods actually consumed in the US: Why are so many SoFAS on MyPlate? Experimental Biology 2012, San Diego, CA. *FASEB Journal* 2012;26:630.3.
13. Dickin KL, Hubbs-Tait L, Sigman-Grant M, **Jahns L**, Mobley A. Feeding practices correlated with authoritative parenting style and responsive feeding style scores. Experimental Biology 2012, San Diego, CA. *FASEB Journal* 2012;26:1011.14.
14. Brandt KS, Carriquiry A, Johnson LK, **Jahns L**. Reported energy intake by weight status, day and Estimated Energy Requirement among adults: NHANES 2003-2008. Experimental Biology 2011, Washington, DC. *FASEB Journal* 2011;25:LB251.
15. Kranz S, **Jahns L**, Johnson L, Whigham L, Scheett A, Hoverson B., Payne CR. You are what you read? Fruit and vegetable MyPyramid recommendations are underrepresented in Sunday

sales circular. Experimental Biology 2011, Washington, DC. *FASEB Journal* 2011;25:989.25.

GRANT SUPPORT

Egg Nutrition Center (2015-2017) \$95,654

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) \$50,000

National Nutrient Databank Conference

PI: Julie Eichenberger-Gilmore, PhD; Role: Co-Investigator

USDA, Southern Rural Development Center (2007-2008) \$35,000

Sociodemographic Factors, Food Stamp Participation and Health: The Case of Low-Income Individuals in Tennessee

PI: Steven Yen, PhD; Role: Co-Investigator

USDA, Cooperative State Research, Education, and Extension Service (2007-2011) \$345,097

Epidemiologic Tools to Assess Obesity-Related Energy and Nutrient Intakes

Role: Principal Investigator

The University of Tennessee (2006-2008) \$237,005

Promoting Healthy, Happy UT Graduates: Combating Stress and the Freshman 15

Role: Principal Investigator

University of Tennessee, Educational Technology Collaborative Project RITE (2006) \$2,500

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 (ITC) Faculty First Program Grant (2006) \$2,087

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) \$3,000

Poverty and Nutrient Intake of US Children.

Role: Principal Investigator

TEACHING ACTIVITIES

University of Tennessee

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.