

**THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
SCHOOL OF NURSING**

CURRICULUM VITAE

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EDUCATION:

<u>Degree</u>	<u>Institution and Location</u>	<u>Dates</u>	<u>Major</u>
PhD	University of North Carolina; Chapel Hill, NC	08/2001-05/2006	Biostatistics
BS	University Of Richmond; Richmond, VA	08/1997-05/2001	Chemistry, Math, Psychology

EMPLOYMENT:

<u>Institution or Firm</u>	<u>Position/Rank</u>	<u>Dates</u>
School of Nursing, UNC Chapel Hill	Research Associate	07/2017-Present
	Professor	
	Research Assistant Professor	06/2008-06/2017
Department of Biostatistics, UNC Chapel Hill	Research Associate	07/2017-Present
	Professor	06/2008-Present
	Research Assistant Professor	
Department of Statistical Science, Duke University	Visiting Assistant Professor	07/2006-05/2008
National Institute of Environmental Health Sciences, NIH	Predocotrinal Trainee	05/2003-07/2006
Carolina Population Center, UNC Chapel Hill	Research Assistant	05/2002-05/2003

HONORS, AWARDS AND HONOR SOCIETY MEMBERSHIPS:

<u>Date</u>	<u>Award or Honor</u>
2007	Bernard Greenberg Dissertation Award (UNC School of Public Health)
2007	Barry H. Margolin Dissertation Award (Dept. of Biostatistics)
2005	ENAR Student paper award (International Biometrics Society)

BIBLIOGRAPHY

Book Chapters

1. Sandelowski, M., Voils, C. I., Crandell, J., & Leeman, J. (2011). Synthesizing qualitative and quantitative research findings. In C. T. Beck (Ed.), *Routledge international handbook of qualitative nursing research*. (pp 347-356) New York: Routledge.
2. Crandell, J.L, Voils, C.I., & Sandelowski, M. (2012). Bayesian Approaches to the Synthesis of Qualitative and Quantitative research Findings. In Hannes, K. and Lockwood, C. (Eds.) *Synthesizing qualitative research: Choosing the right approach* (pp. 137-159) London: Wiley-Blackwell.

Refereed Papers

Published

1. Jung, A., Crandell, J. L., Nielsen, M. E., Mayer, D. K., & Smith, S. K. (2021). Post-traumatic stress disorder symptoms in non-muscle-invasive bladder cancer survivors: A population-based study. *Urologic oncology*, 39(4), 237.e7–237.e14. <https://doi.org/10.1016/j.urolonc.2020.11.033>
2. Cates, J. R., Fuemmeler, B. F., Stockton, L. L., Diehl, S. J., Crandell, J. L., & Coyne-Beasley, T. (2020). Evaluation of a Serious Video Game to Facilitate Conversations About Human Papillomavirus Vaccination for Preteens: Pilot Randomized Controlled Trial. *JMIR serious games*, 8(4), e16883. <https://doi.org/10.2196/16883>
3. Davis SP, Bolin LP, Crane PB, Crandell J. Non-pharmacological Interventions for Anxiety and Depression in Adults With Inflammatory Bowel Disease: A Systematic Review and Meta-Analysis. *Front Psychol*. 2020 Nov 5;11:538741. doi: 10.3389/fpsyg.2020.538741. PMID: 33250803; PMCID: PMC7676293.
4. Al Yazeedi, B., Berry, D.C., Crandell, J., and Waly, M. (2020) Lifestyle-Related Determinants of Obesity Among Omani Children. *Sultan Qaboos Univ Med J*, 20(3), Epub. doi: 10.18295/squmj.2020.20.03.006.
5. Igudesman, D., Crandell, J., Zhong, V. W., Cristello Sarteau, A., Kahkoska, A. R., Corbin, K., Pratley, R., Kosorok, M. R., Maahs, D. M., & Mayer-Davis, E. J. (2020). Dietary intake on days with and without hypoglycemia in youth with type 1 diabetes: The Flexible Lifestyle Empowering Change trial. *Pediatric diabetes*, 21(8), 1475–1484. <https://doi.org/10.1111/pedi.13132>
6. Liese, A. D., Couch, S. C., The, N. S., Crandell, J. L., Lawrence, J. M., Crume, T. L., Mayer-Davis, E. J., Zhong, V. W., & Urbina, E. M. (2020). Association between diet quality indices and arterial stiffness in youth with type 1 diabetes: SEARCH for Diabetes in Youth Nutrition Ancillary Study. *Journal of diabetes and its complications*, 34(12), 107709. <https://doi.org/10.1016/j.jdiacomp.2020.107709>
7. Davis SP, Bolin LP, Crane PB, Wei H, Crandell J. Non-pharmacological interventions to manage fatigue in adults with inflammatory bowel disease: A systematic review and meta-analysis. *Complement Ther Clin Pract*. 2020 Nov;41:101229. doi: 10.1016/j.ctcp.2020.101229. Epub 2020 Aug 13. PMID: 32836107.
8. Cristello Sarteau, A., Crandell, J., Seid, M., Kichler, J. C., Maahs, D. M., Wang, J., & Mayer-Davis, E. (2020). Characterization of youth goal setting in the self-management of type 1 diabetes and

- associations with HbA1c: The Flexible Lifestyle Empowering Change trial. *Pediatric diabetes*, 21(7), 1343–1352. <https://doi.org/10.1111/pedi.13099>
9. Britton, L.E., Berry, D.C., Crandell, J.L., Brooks, J.L., Bryant, A.G. (2020) Perceptions and Behaviors Related to Contraceptive Use in the Postpartum Period Among Women With Pregestational Diabetes Mellitus. *J Obstet Gynecol Neonatal Nurs*, 49(2):154-166. doi: 10.1016/j.jogn.2019.12.002
 10. Salomon, R.E., Crandell, J., Muscatell, K.A., Santos, H.P., Anderson, R.A., Beeber, L.S. (2020) Two Methods for Calculating Symptom Cluster Scores. *Nursing Research*, 69(2):133-141. doi: 10.1097/NNR.0000000000000412.
 11. Tooze, J.A., The, N.S., Crandell, J.L., Couch, S.C., Mayer-Davis, E.J., Koebnick, C., Liese, A.D. (2020) An Approach for Examining the Impact of Food Group-Based Sources of Nutrients on Outcomes with Application to PUFAs and LDL in Youth with Type 1 Diabetes. *Nutrients*, 12(4), doi: 10.3390/nu12040941
 12. Al Yazeedi, B., Berry, D. C., Crandell, J., & Waly, M. (2021). Family Influence on Children's Nutrition and Physical Activity Patterns in Oman. *Journal of pediatric nursing*, 56, e42–e48. <https://doi.org/10.1016/j.pedn.2020.07.012>
 13. Berry, D.C., Gonzales C., Montano, N.P., Perreira, K.M., Ammerman, A.S., Crandell, J., Evenson, K.R., Faith, M.S., Waters, H., Linares, C., Córtes, Y.I., Perrin, E.M. (2019) Rationale, design, and methodology for the healthy mothers-healthy children study: a randomized controlled trial. *BMC Nutrition* 5(58), doi: 10.1186/s40795-019-0322-7.
 14. Jung, A., Nielsen, M.E., Crandell, J.L., Palmer, M.H., Smith, S.K., Bryant, A.L., Mayer, D.K. (2020) Health-related quality of life among non-muscle-invasive bladder cancer survivors: a population-based study. *BJU Int*, 125(1):38-48. doi: 10.1111/bju.14888.
 15. The, N.S., Couch, S.C., Urbina, E.M., Crandell, J.L., Liese, A.D., Dabalea, D., Kim, G.J., Tooze, J.A., Lawrence, J.M., Mayer-Davis E.J. (2019) Body Mass Index Z-Score Modifies the Association between Added Sugar Intake and Arterial Stiffness in Youth with Type 1 Diabetes: The Search Nutrition Ancillary Study. *Nutrients*, 11(8), pii:E1752. doi: 10.3390/nu11081752.
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 17. Kahkoska, A.R., Adair, L.A., Aiello, A.E., Burger, K.S., Buse, J.B., Crandell, J., Maahs, D.M., Hyugen, C.T., Kosorok, M.R., Mayer-Davis, E.J. (2019) Identification of clinically relevant dysglycemia phenotypes based on continuous glucose monitoring data from youth with type 1 diabetes and elevated hemoglobin A1c. *Pediatric Diabetes*, 20(5):556-566. doi: 10.1111/pedi.12856.
 18. Hsu, A.K., McKee, M., Williams, S., Roscigno, C., Crandell, J., Lewis, A., Haxxard, W., Jenerette, C. (2019) Associations among hearing loss, hospitalization, readmission and mortality in older adults: A systematic review. *Geriatric Nursing, Epub ahead of print*. doi: gerinurse.2018.12.013.
 19. Britton, L.E., Hussey, J.M., Berry, D.C., Crandell, J.L., Brooks, J.L., Bryant, A.G. (2019) Contraceptive Use Among Women with Prediabetes and Diabetes in a US National Sample. *J Midwifery Womens Health*, 64(1):36-45. doi: 10.1111/jmwh.12936.

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32. Cates, J.R., Crandell, J.L., Diehl, S.J., & Coyne-Beasley, T. (2018) Immunization effects of a communication intervention to promote preteen HPV vaccination in primary care practices. *Vaccine*, *36*(1), 122-127. doi: 10.1016/j.vaccine.2017.11.025.
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- arterial stiffness among youth with type 1 diabetes. *European Journal of Clinical Nutrition*, 68(12), 1327-1333.
57. Santacroce, S.J. & Crandell, J. (2014). Feasibility and preliminary findings from a pilot study of allostatic load in adolescent-young adult childhood cancer survivors and their siblings. *Journal of Pediatric Oncology Nursing*, 31(3), 122-134.
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 61. Barnes, T.L., Crandell, J.L., Bell, R.A., Mayer-Davis, E.J., Dabelea, D., & Liese, A.D. (2013). Change in DASH diet score and cardiovascular risk factors in youth with type 1 and type 2 diabetes mellitus: The SEARCH for Diabetes in Youth Study. *Nutrition & Diabetes*, 3, e91.
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79. Leeman J, Chang Y.K., Lee, E.J., Voils, C.I., Crandell, J., & Sandelowski, M. (2010). Implementation of antiretroviral therapy adherence interventions: A realist synthesis of evidence. *Journal of Advanced Nursing, 66*(9), 1915-1930.
80. Voils, C.I., Crandell, J.L., Chang, Y., Leeman, J., & Sandelowski, M. (2011). Combining adjusted and unadjusted findings in mixed research synthesis. *Journal of Evaluation in Clinical Practice, 17*(3), 429-434.
81. Crandell, J.L., Voils, C.I., Chang, Y., & Sandelowski, M. (2011). Bayesian Data Augmentation Methods for the Synthesis of Qualitative and Quantitative Research Findings. *Quality and Quantity, 45*(3), 653-669.
82. Hamilton, J.B., Crandell, J.L., Carter, J.K., & Lynn, M.R. (2010). Reliability and Validity of the Perspectives of Support from God Scale. *Nursing Research, 59*(2), 102-109.
83. Agarwal, M., Hamilton, J.B., Moore, C.E., & Crandell, J.L. (2010). Predictors of Depression among Older African American Cancer Patients. *Cancer Nursing, 33*(2), 156-163.
84. Mishel, M.H., Germino, B.B., Lin, L., Pruthi, R.S., Wallen, E.M., Crandell, J., et al. (2009). Managing uncertainty about treatment decision making in early stage prostate cancer: A randomized clinical trial. *Patient Education and Counseling, 77*(3), 349-359.
85. Chang, Y., Voils, C.I., Sandelowski, M., Hasselblad, V., & Crandell, J.L. (2009). Transforming Verbal Counts in Reports of Qualitative Descriptive Studies into Numbers. *Western Journal of Nursing Research, 31*, 837-852.
86. Hamilton J.B., Stewart B.J., Crandell J.L., Lynn M.R. (2009). Development of the ways of helping questionnaire: A measure of preferred coping strategies for older African American cancer survivors. *Research in Nursing and Health, 32*, 243-59.

87. Voils, C. I., Hasselblad, V., Chang, Y.K., Crandell, J., Lee, E. J., & Sandelowski, M. (2009). A Bayesian method for the synthesis of evidence from qualitative and quantitative reports: An example from the literature on antiretroviral medication adherence. *Journal of Health Services Research and Policy, 14*(4), 226-33.

Publications under maiden name, J.L. Bigelow:

88. Bigelow, J.L., & Dunson, D.B. (2009). Bayesian semiparametric joint clustering of trajectories and outcome events. *Journal of the American Statistical Association, 104*, 26-36.
89. Bigelow, J.L., & Dunson, D.B. (2007). Bayesian adaptive regression splines for hierarchical data. *Biometrics, 63*, 724-732.
90. Dunson D.B. & Bigelow J.L. (2005). Reduced fertilization rates in older men when cervical mucus is sub-optimal. *Obstetrics and Gynecology, 105*, 788-793.
91. Bigelow J.L., Dunson D.B., Stanford J.B., Ecochard R., Gnoth C., & Colombo B. (2004). Mucus observations in the fertile window: a better predictor of conception than timing of intercourse. *Human Reproduction, 19*, 889-892.

In Press

Refereed Abstracts

1. Tooze, J.A., Crandell, J.L., The, N.S., Couch, S.C., Mayer-Davis, E.J., Koebnick, C., & Liese, A.D. (2017, April) *An Approach for Examining the Impact of Food Group-Based Sources of Nutrients on Outcomes with Application to PUFAs and LDL*. The FASEB Journal, 31(Suppl.1), 788.8.
2. The, N.S., Crandell, J.L., Liese, A.D., Urbina, E.M., Couch, S.C., & Mayer-Davis, E.J. (2017, April) *Added Sugar Intake and Arterial Stiffness in Youth with Type 1 Diabetes: SEARCH Nutrition Ancillary Study*. The FASEB Journal, 31(Suppl.1), 314.8.
3. Zhong, V.W., Lamichhane, A.P., Crandell, J.L., Couch, S.C., Liese, A.D., The, N.S. et al. (2015). *Mediterranean Diet is Associated with Glycemic Control and Cardiovascular Risk Factors in Youth with Type 1 Diabetes: The SEARCH Nutrition Ancillary Study*. The FASEB Journal, 29(Suppl.1), 736.17.
4. Wang, S., Crandell, J., Couch, S., King, I., Lawrence, J., Dabalea, D., et al. (2015). *Plasma Nutrient Biomarkers are Associated with Waist-to-Height Ratio in Youth with Type 1 Diabetes: SEARCH for Diabetes in Youth Nutrition Ancillary Study*. The FASEB Journal, 29(Suppl 1), 906.33.
5. Wang, S., Zhong, W.V., Crandell, J.L., Couch, S.C., Lawrence, J.M., Dabelea, D., et al. (2015). *Dietary Patterns and Waist-to-Height Ratio in Youth with Type 1 Diabetes: SEARCH for Diabetes in Youth Nutrition Ancillary Study*. Diabetes 2015, 64(Suppl. 1), A448.
6. The, N.S., Lamichhane, A., Shay, C., Wang, S., Dabelea, D., Lawrence, J.M., Crandell, J., et al. (2015). *The Association between Breastfeeding and Insulin Sensitivity among Youth with Diabetes*. Diabetes 2015, 64(Suppl.1), A420.
7. Jaacks, L.M., Crandell, J.L., Liese, A.D., Lamichhane, A.P., Bell, R.A., Dabelea, D., et al. (2013). *Association of dietary fiber intake with inflammation and arterial stiffness in youth with type 1 diabetes*. Diabetes 2013, 62(Suppl. 1), 398.
8. Couch, S.A., Crandell, J., Peairs, A., Liese, A.D., Shah, A.S., Dolan, L.M., et al. (2013). *Polyunsaturated Fatty acids (PUFA) and Cardiovascular Risk Factors in Youth with Type 1 Diabetes (T1D): SEARCH Nutrition Ancillary Study*. Diabetes 2013, 62(Suppl. 1), A346.

9. King, I.B., Crandell, J.L., Couch, S., & Mayer-Davis, E.J. (2012). Plasma Trans Palmitoleic Acid [TPA] and Cardiometabolic Risk factors in Youth with Type 1 Diabetes. *Diabetes* 2012, 61 (Suppl. 1), A188.

Refereed Presentations

1. Jung, A., Nielsen, M., Crandell, J., Bryant, A., Smith, S., & Mayer, D. (to be presented 2018, May). Quality of life in Non-Muscle-Invasive Bladder Cancer Survivors: A Systematic Review. Poster presented at the Oncology Nursing Society's 43rd Annual Congress, Washington, DC.
2. Kahkoska, A.R., Shay, C.M., Black, M.H., Crandell, J.L., Dabalea D., Imperatore, G., et al. (June 2017) *Race/Ethnicity as a Predictor of Hemoglobin A1c Trajectory in Youth with Type 1 Diabetes*. Paper presented at the 77th Scientific Sessions of the American Diabetes Association, San Diego, CA.
3. Kahkoska, A.R., Shay, C.M., Reboussin, B.A., Dabalea, D., Phoker, C., Lawrence, J.M., Liese, A.D., Crandell, J.L., et al. (June 2017) *Sociodemographic Drivers of Longitudinal Adiposity in Youth with Type 1 Diabetes*. Poster presented at the 77th Scientific Sessions of the American Diabetes Association, San Diego, CA.
4. Costacou, T., Crandell, J.L., Kahkoska, A., Mayer-Davis, E.J., & Mottl, A. (June 2017) *Dietary Patterns and Microalbuminuria (MA) in Type 1 Diabetes: The SEARCH Nutrition Ancillary Study*. Poster presented at the 77th Scientific Sessions of the American Diabetes Association, San Diego, CA.
5. Tooze, J., Crandell, J.L., Liese, A., The, N., Couch, S., Koebnick, C., & Mayer-Davis, E.J. (April 2017) *An Approach for Examining the Impact of Food Group-Based Sources of Nutrients on Outcomes with Application to PUFAs and LDL*. Poster presented at American Society for Nutrition - Experimental Biology meeting, Chicago, IL.
6. The, N., Crandell, J.L., Liese, A., Couch S., Dabalea, D., King, I., et al. (April 2017) *Added sugar Intake and Arterial Stiffness in Youth with Type 1 Diabetes: SEARCH Nutrition Ancillary Study*. Paper presented at American Society for Nutrition - Experimental Biology meeting, Chicago, IL.
7. Lekavich, C.L., Barksdale, D.J., Neelon, V.J., Crandell, J. Wu, J.R., & Velazquez, E.J. (2017, March) *Measures of Ventricular-Arterial Coupling and Heart Failure Preserved Ejection Fraction (HPpEF): A Matched Case-Control Analysis*. Poster presented at the American College of Cardiology Annual Scientific Sessions, Washington, DC
8. Cates, J.R., Trogon, J., Diehl, S.J., Crandell, J., Coyne-Beasley, T. (2016, December). *Measuring the Cost of Implementing a Communication Intervention to Promote Preteen HPV Vaccination in Primary Care Practices*. Poster presented at the NIH 9th Annual Conference on the Science of Dissemination and Implementation in Health, Washington, DC.
9. Bishop, F.K., Driscoll, K.A., Hunter, C.M., Kichler, J., Maahs, D.M., Seid, M., Standiford, D., Thomas, J., Crandell, J., Mayer-davis, E.J. (2016, October). *The Flexible Lifestyle Empowering Change (FL3X) Clinical Trial: Recruitment and Retention Strategies*. Poster presented at the meeting of the International Society for Pediatric and Adolescent Diabetes, Valencia, Spain.
10. The, N.S., King, I.B., Crandell, J.L., Couch, S., Tzeel, B., Liese, A.D., Dabalea, D., Mayer-Davis, E. (2016, April). *Plasma trans Palmitoleic Acid and Cardiometabolic Risk Factors in Youth with Type 1 Diabetes: SEARCH Nutrition Ancillary Study*. Paper presented at Experimental Biology meeting, San Diego, CA.
11. Crume, T.L., Crandell, J., Lamichhane, A.P., Dabalea, D., Tooze, J.A., Liese, A., Dolan, L., Lawrence, J.M., Pihoker, C., Mayer-Davis E.J. (2016, April). *Breastfeeding as a Potential Factor Related to*

- Preservation of Insulin Secretion in Youth with Recently Diagnosed Type 2 Diabetes: The SEARCH Nutrition Ancillary Study.* Paper presented at Experimental Biology meeting, San Diego, CA.
12. Couch, S.C., Crandell, J., King, I., Peairs, A., Shah, A., Dolan, L., Tooze, J., Crume, T., Mayer-Davis, E. (2016, April). *Associations between Long Chain Polyunsaturated Fatty Acids and Cardiovascular Risk Factors in Youth with Type 1 Diabetes: SEARCH Nutrition Ancillary Study.* Poster session presented at Experimental Biology meeting, San Diego, CA.
 13. Havill, N., Fleming, L., Knaf, K., Leeman, J., Crandell, J., & Sandelowski, M. (2015, August). *Well Siblings in the Context of Childhood Chronic Illness: A Research Synthesis Using Existing Grounded Theory.* Paper presented at 12th International Family Nursing Conference, Odense, Denmark.
 14. Knaf, K., Leeman, J., Havill, N., Crandell, J., & Sandelowski, M. (2015, April). *Discovering What We Know - Innovations in Family Synthesis Research.* Paper presented at Midwest Nursing Research 39th Annual Research Conference, Indianapolis, IN.
 15. Cates, J. R., Diehl, S. J., Crandell, J. L., & Coyne-Beasley, T. (2015, March). *Dissemination strategies to promote HPV vaccination among preteen boys: Embracing the transition to adolescence through three-way conversations among provider, parent and preteen.* Paper presented at the Society for Adolescent Health and Medicine 2015 annual meeting Los Angeles, CA.
 16. Cates, J. R., Diehl, S. J., Crandell, J. L., & Coyne-Beasley, T. (2014, December). *Evaluating dissemination strategies to promote preteen HPV vaccination.* Paper presented at the 7th Annual Conference on the Science of Dissemination and Implementation in Health: Transforming Individual and Population Health, Bethesda, MD.
 17. Knaf, K., Leeman, J., Havill, H., Crandell, J., & Sandelowski, M. (2014, March). *The Contribution of Family Variables to the Wellbeing of Children with Arthritis.* Midwest Nursing Research 38th Annual Research Conference, St. Louis, MO.
 18. Knaf, K., Leeman, J., Havill, N., Crandell, J., Shaw-Kokot, J., & Sandelowski, M. (2014, March). *Family Matters: Best Practices for Synthesizing the Research Literature.* Paper presented at the 35th Annual Conference of the National Association of Pediatric Nurse Practitioners, Boston, MA.
 19. Fogel, C.I., Herbst, J.H., Gelaude, D., Crandell, J., Parker, S.D., Carry, M., et al. (2013, November). *Efficacy of an adapted HIV/STD prevention intervention for incarcerated women: Findings from the project POWER study.* Paper presented at the American Public Health Association Annual Meeting, Boston, MA.
 20. Cates, J.R., Diehl, S.J., Crandell, J., & Coyne-Beasley, T. (2013, August). *Encouraging HPV vaccination for preteen boys: Response to a social marketing campaign.* Paper presented at the National Conference on Health Communication, Marketing, and Media, Atlanta, GA.
 21. Liese, A.D., Crandell, J.L., Tooze, J.A., Merchant, A.T., Bell, R.A., Couch, S., et al. (2013, April). *Application of measurement error methodology to the study of sugar-sweetened beverage intake and lipid levels in youth with type 1 diabetes: Findings from the SEARCH Nutrition Ancillary Study.* Poster session presented at the European Diabetes Epidemiology Group, Potsdam, Germany.
 22. Mayer-Davis, E.J., Crandell, J., Crume, T., D'Agostino, Jr. R., Dabelea, D., Dolan, L., et al. (2013, April). *Nutritional factors and c-peptide preservation in type 1 diabetes.* Poster session presented at American Society for Nutrition - Experimental Biology meeting, Boston, MA.

23. Cates JR, Diehl SJ, Coyne-Beasley T, Crandell JL, and Brown, JD. (2013, March). *Optimizing HPV Vaccination for Boys: Opportunities for Enhanced Communication*. Paper presented at the DC-Area Health Communications Conference, Washington, DC.
24. Mayer-Davis, E.J., Crandell, J.L., Dabelea, D., Dolan, L.M., Lawrence, J.M., Pihoker, C., et al. (2012, June). *The Branched Chain Amino Acid Leucine is Associated with Insulin Secretion Among Youth with Type 1 Diabetes (T1D): SEARCH for Diabetes in Youth*. Paper presented at the 72nd Scientific Sessions of the American Diabetes Association, Philadelphia, PA.
25. Liese A., Fangman M.T., Crandell J., Toozee J.A., Merchant, A., Bell R., et al. (2012, May). *Relative Validity of a food frequency questionnaire in youth with Type 1 diabetes*. Poster session presented at the 8th Annual International Conference on Diet and Activity Methods, Rome, Italy.
26. Liese A., Crandell J., Toozee J.A., Fangman M.T., Kipnis V., Couch S., et al. (2012, May). *Investigating dietary measurement error: Application of regression calibration to the association of sugar-sweetened beverage intake and lipid levels in youth with Type 1 diabetes*. Poster session presented at the 8th Annual International Conference on Diet and Activity Methods, Rome, Italy.
27. Barnes, T.L., Crandell, J.L., Bell, R.A., Mayer-Davis, E.J., Dabelea, D., & Liese, A.D. (2012, April). *Change in DASH Diet and Cardiovascular Risk Factors in Youth with Type 1 and Type 2 Diabetes Mellitus: The SEARCH for Diabetes in Youth Study*. Poster session presented at American Society for Nutrition - Experimental Biology meeting, San Diego, CA.
28. The, N., Crandell, J.L., Norris, J.M., & Mayer-Davis, E.J. (2012, April). *Vitamin D and Insulin Resistance: The SEARCH For Diabetes in Youth Study*. Paper presented at American Society for Nutrition - Experimental Biology meeting, San Diego, CA.
29. Couch, S.C., Crandell, J.L., Shah, A., Dolan, L., Merchant, A., Liese, A. et al. (2011, September). *Fructose Intake and Cardiovascular Risk Factors in Youth with Type 1 Diabetes: The SEARCH for Diabetes in Youth Study*. Poster session presented at American Dietetic Association Food and Nutrition Conference and Expo, San Diego, California.
30. The N.S., Crandell J., Thomas J., Couch S., Shah A.S., Maahs D., et al. (2011, June). *Correlates of Medical Nutrition Therapy and Cardiovascular Outcomes in Youth with Type 1 Diabetes*. Poster session presented at 71st Scientific Sessions of the American Diabetes Association, San Diego, CA.
31. Parker, S. D., Scheyett, A.M., Fogel, C., Blickman, A., Fishel, A., & Crandell, J. (2011, January). *Parallel Processes and Multiple Needs: Parenting Intervention as HIV Prevention for Incarcerated*. Paper presented at Society for Social Work and Research, Tampa, FL
32. Mayer-Davis, E.J., Wojcik, K., Dabelea, D., D'Agostino, R., Crandell, J., Norris, J., et al. (2010, September). *Plasma Vitamin D and Preservation of C-peptide in Youth with Recently Diagnosed Autoimmune Positive Type 1 Diabetes: SEARCH Nutrition Ancillary Study*, Poster session presented at the meetings of the European Association for the Study of Diabetes, Stockholm, Sweden.
33. Porter, L., Mishel, M., Allen, D., Germino, B., Crandell, J., Blyler, D., and Santacroce, S. (2010, April). *Cortisol in Caucasian and African American younger breast cancer survivors: Preliminary findings from a psycho-educational intervention*. Poster presented at the 31st Annual Meeting of the Society of Behavioral Medicine, Seattle, Washington.
34. Hall, D., Blyler, D., Crandell, J., Germino, B., and Porter, L. (2010, April). *Predictors and patterns of participant adherence to a cortisol collection protocol*. Poster presented at the 31st Annual Meeting of the Society of Behavioral Medicine, Seattle, Washington.

35. Crandell, J.L. and Dunson, D.B. (2009, October). *Developing methods for fertility data*. Paper presented at the UNC Department of Biostatistics 60th Anniversary celebration. Chapel Hill, NC.
36. Voils, C. I., Hasselblad, V., Chang, Y. K., Sandelowski, M., & Crandell, J.(2009, April). *Can Bayesian methods be used to synthesize qualitative and quantitative research findings?* Poster presented at the 30th Annual Meeting of the Society of Behavioral Medicine, Montreal, Canada
37. Fogel, C.I., Brown, N., & Crandell, J.L. (2009, April). *Depression, HIV-risk, and incarcerated women in the rural South*. Paper presented at HIV/STD Prevention in Rural Communities: Sharing Successful Strategies VI, Indiana University, Bloomington, IN
38. Alston, L., Crandell, J.L., Hamilton, J. (2009, March). *Religious Involvement and Depression among African-American Cancer Survivors*. Paper presented at the Black Psychology Student Research Conference, Virginia Commonwealth University, Richmond, VA
39. Bigelow J.L. and Dunson D.B. (2005, August). *Bayesian Approaches to Epidemiologic Data Analysis*. Paper presented at the Joint Statistical Meetings, Minneapolis, MN.
40. Bigelow J.L. and Dunson D.B. (2005, March). *Bayesian adaptive regression splines for hierarchical data*. *Biometrics*, 63:724-732. Paper presented at the Eastern North American Region of the International Biometrics Society meetings, Austin, TX.

Invited Presentations

1. Mayer-Davis, E.J., Crandell, J., Crume, T., D'Agostino, Jr. R., Dabelea, D., Dolan, L., et al. (2013, June). Nutritional factors and c-peptide preservation in type 1 diabetes. Invited presentation at the 73rd Scientific Sessions of the American Diabetes Association, Chicago, IL.
2. Bigelow, J.L., & Dunson, D.B. (2007, August). Modeling Time-varying Exposures in Epidemiology. Invited presentation at the Joint Statistical Meetings in Salt Lake City, UT.
3. Bigelow, J.L., & Dunson, D.B. (2006, March). Bayesian adaptive regression splines for hierarchical data. Invited presentation at the Eastern North American Region of the International Biometrics Society meetings, Tampa, FL.

TEACHING ACTIVITIES:

Courses Taught

Course No. (Level)	Title	Role	Semester & Year	# of Credits	Total # students: In class
SPHG 711	Data Analysis for Public Health	Instructor	Fall 2018, Fall 2019, Fall 2020	2	160, 220, 240
BIOS 663	Introduction to Linear Models	Instructor	Spring 2015	4	43
BIOS 668	Design of Public Health Studies	Co-Instructor	Spring 2012	3	12

Student Research Supervision (all are Nursing unless otherwise indicated)

PhD students (Current, all are in Nursing unless otherwise indicated)

Student	Role (progress)	Dates
Daria Igudesman (Nutrition)	Committee (defended proposal in 2020)	2018-
Jill Leckey	Committee	2020-
Franklin Muntis (Nutrition)	Committee	2021-

PhD students (Past)

Student	Role	Dissertation title	Dates
Sherita House	Committee	Military and Civilian Healthcare Professionals' Experiences of Relational Coordination, Job Satisfaction, and Intent to Stay in a Military Treatment Facility	2018-2020
Brandy Lamm	Committee	Adapting Interventions to Address Medical Needs of Adults with Severe Mental Illness for Implementation in Assertive Community Treatment Teams	2019-2020
Yanire Estrada (Nutrition)	Committee	Systematic adaptation of an evidence-based diet intervention for Puerto Rican adults with diabetes living in Boston	2015-2020
Michael Schultz	Committee	Mindfulness, Interoception, and Stress in Type 1 Diabetes Self-Management Among Late Adolescents and Early Adults	2016-2020
Laura Britton	Committee	Sociodemographic, cognitive, and affective antecedents to pregnancy planning among women with diabetes	2016-2018
Jeehae Chung	Committee	Internet Addiction among Undergraduate Students in South Korea: Association with the COMT Genotype (Val158Met) and Psychological Factors	2015-2019
Amber Kimball	Committee	Health care experiences and outcomes in older adults with hearing loss	2017-2019
Becky Salomon	Committee	Psychoneurological Symptoms in Situationally Stressed Low Income Mothers	2016-2019
Basma Alyazeedi	Committee	Childhood Obesity and Family Influence on Children's Nutrition Intake, Physical Activity Patterns, and BMI z-score in Oman	2016-2018
Ahrang Jung	Committee	Relationships among Uncertainty, Post-Traumatic Stress Symptoms, and Quality of Life in Non-Muscle-Invasive Bladder Cancer Survivors	2015-2018
Saada Al-barwani	Committee	Employing the Theory of Planned Behavior to Predict Breastfeeding Intention and Intensity in Oman	2015-2017
Carolyn Lekavich	Committee	The Identification of Biomarkers that Predict Impending Heart Failure Preserved Ejection Fraction (HFpEF)	2014-2015
Carolyn Huffman	Committee	Meaning of Miscarriage: Measurement, Reproductive Factors, and Trajectories in Couple Dyads	2012-2014
Lindsay Jaacks (Nutrition)	Committee	The 3C Nutrition Ancillary Study: Describing the integration of diet and disease self-management among adolescents and adults with Type 1 diabetes in China	2013-2014

Kennedy Onori	Committee	Nursing Diagnosis in the Care of Hospitalized Patient with Type 2 Diabetes Mellitus: Pattern Analysis and Correlates of Health Disparities	2011-2013
Cindy Bacon	Committee	Exploring Organizational Influences on Patient Symptom Management in Hospitals	2011-2012
Nancy Havill	Committee	Therapeutic Landscapes for Birth: A Research Synthesis	2011-2012
Sharon Parker (Social Work)	Committee	Incarcerated women: Exploring the interrelatedness of intimate partner violence, drug use, and HIV risk behaviors	2009-2012
Tavie Flanagan	Committee	Cardiovascular Risk Prevention in Women Prisoners: The Stay Fit and Healthy Intervention	2010-2011
Ashley Leak	Committee	Factors Influencing Non-Hodgkin Lymphoma Survivors' Quality of Life	2009-2011
Mihyun Park	Committee	The Relationship of Ethics Education to Moral Sensitivity and Moral Reasoning of Students in Baccalaureate Nursing Programs of South Korea	2010-2011
Jeongok Park	Committee	A Case-control Study exploring the relationship between risk factors of detrusor under-activity and bladder outlet obstruction and incomplete bladder emptying in Community-dwelling women aged 65 years and older who have active bladder symptoms	2009-2011
Yeongmi Ha	Committee	The relationship between Children's and Parental Risk Factors, Dietary Patterns and Weight Status in Children with Intellectual Disabilities in South Korea	2009-2010

RESEARCH ACTIVITIES:

Grants

Funded (Active)

Role	Title	Award Amount	Percent Effort	Agency	Dates
Co-I	Promoting stretching exercise to reduce cardiovascular health risk in late pregnant women with obesity (Yeo, PI)	\$2,271,416	15%	NINR	08/6/19-05/31/24
Co-I	Accelerating Solutions to Optimize Glycemic Control and Weight Management In Young Adults with Type 1 Diabetes (Mayer-Davis, PI)	\$1,911,815	20%	NIDDK	09/2018-03/2021
Co-I	Healthy Mothers-Healthy Children: An Intervention with Hispanic Mothers and their Young Children (Berry, PI)	\$2,974,000	15%	NINR	09/2018-07/2023
Co-I	Symptom Trajectories in Infants and Toddlers at Risk for Chronic Feeding Problems (Thoyre, PI)	\$2,660,648,	15%	NINR	9/25/19-6/30/24

Funded (Completed)

Role	Title	Award Amount	Percent Effort	Agency	Dates
Core Statistician	UNC Nutrition Obesity Research Center	\$750,000 annually	3%	NIDDK	06/15-09/18
Co-I	Normalizing preteen HPV vaccination with practice-based communication strategies	\$3,016,489	15%	NIAID	08/14-07/18
Statistician	Fl3x: An Adaptive Intervention to Improve Outcomes for Youth with Type 1 Diabetes	\$6,949,173	7%	NIDDK	09/13-06/18
Statistician	SEARCH Nutrition Ancillary Study 2	\$2,310,344	20%	NIDDK	04/14-03/18
Co-I	Mixed-Methods Synthesis of Research on Childhood Chronic Conditions and Family	\$1,347,026	10-20%	NINR	09/11-05/17
Co-I	Arterial stiffness in children who recently completed cancer therapy	\$99,442 direct	2%	Alex's Lemonade stand foundation	01/14-01/16
Statistician	Fl3x: An Adaptive Intervention to Improve Outcomes for Youth with Type 1 Diabetes	\$172,932	5%	NIDDK	01/13-09/13
Statistician	Tribal Turning Point: Pilot Study for prevention of T2D in American Indian Youth	\$444,621	2%	NIDDK	05/13-05/15
Statistician	Nutrition and Metabolic Status in Diabetic Youth: SEARCH Ancillary Study	\$2,994,795	10-20%	NIDDK	01/12-03/14
Co-I	Optimizing HPV Vaccination: Parents, Providers and Pre-teen Boys	\$407,000	5%	NIAID	03/12-02/14
Co-I	Adapting Project S.A.F.E./Reducing STD/HIV Risk in Women Prisoners	\$1,225,559	7%	CDC	09/07-09/13
Co-I	Reducing Sexual Risk in Southern HIV-Positive Women	\$966,038	10%	CDC	09/08-09/10
Co-I	Younger Breast Cancer Survivors: Managing Uncertainty	\$1,912,968	10%	NINR	09/09-05/10
Co-I	Integrating Qualitative & Quantitative Research Findings	\$1,637,338	15%	NINR	08/08-03/10
Co-I	Helping Older African American Cancer Survivors Cope.	\$763,222	15%	NINR	08/08-01/10
Co-I	Helping Women Prisoners Reduce HIV Risk After Release	\$2,483,015	20-30%	NIMH	08/08-04/09
Co-I	Incarcerated Women, Parenting and HIV risk	\$391,903	10%	NIMH	08/08-02/09

Under Review

Role	Title	Total Amount	Percent Effort	Agency

PROFESSIONAL SERVICE:

Editorial Activities

Journal	Role	Dates
<i>Statistics in Medicine</i>	reviewer	2009-2011
<i>Research in Nursing and Health</i>	reviewer	2010-
<i>Biometrical Journal</i>	reviewer	2010-
<i>BMJ Open</i>	reviewer	2016-

Other

Organization/Project	Role	Dates
Pilot Grant Review Panel: UNC Center for Diabetes Translation Research to Reduce Health Disparities (P30)	Reviewer	2011-2015

UNIVERSITY SERVICE

School of Nursing Committees

Committee	Role	Dates
Faculty Search committee	Member	2018-2019
APR Committee	Member	2018-
Associate Dean for Research Search Committee	Member	2013-2014

Department of Biostatistics Committees

Committee	Role	Dates
Master's Qualifying Examination Committee	Member	2013-
Graduate Admissions Committee	Member	2008-2013

RESEARCH STATEMENT:

As a collaborative statistical researcher with training in Bayesian and traditional methods, my primary focus is to work with PIs to conceptualize the design of research studies, analysis and management of data, and the dissemination of results. My areas of expertise include inference from longitudinal observational studies, behavioral intervention trials, meta-analysis, and measurement error correction. Additionally, I support the research mission of the SON by training faculty and students in the use of statistical methods and the interpretation of results.