

**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	Predoctoral 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>
2022	Gillings School Teaching Excellence Award
2007	Bernard Greenberg Dissertation Award (UNC School of Public Health)
2007	Barry H. Margolin Dissertation Award (Dept. of Biostatistics)

BIBLIOGRAPHYBook 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 PapersPublished

1. Muntis, F. R., Mayer-Davis, E. J., Shaikh, S. R., Crandell, J., Evenson, K. R., & Smith-Ryan, A. E. (2023). Post-Exercise Protein Intake May Reduce Time in Hypoglycemia Following Moderate-Intensity Continuous Exercise among Adults with Type 1 Diabetes. *Nutrients*, 15(19), 4268. <https://doi.org/10.3390/nu15194268>
2. Al Barwani, S., Hodges, E., Crandell, J., Thoyre, S., Knafl, K., & Sullivan, C. (2023). Predicting infant feeding intention and intensity in Oman using a path analysis approach. *Eastern Mediterranean health journal = La revue de sante de la Mediterranee orientale = al-Majallah al-sihhiyah li-sharq al-mutawassit*, 29(5), 324–334. <https://doi.org/10.26719/emhj.23.057>
3. Muntis, F. R., Smith-Ryan, A. E., Crandell, J., Evenson, K. R., Maahs, D. M., Seid, M., Shaikh, S. R., & Mayer-Davis, E. J. (2023). A High Protein Diet Is Associated with Improved Glycemic Control Following Exercise among Adolescents with Type 1 Diabetes. *Nutrients*, 15(8), 1981. <https://doi.org/10.3390/nu15081981>
4. Igudesman, D., Crandell, J. L., Corbin, K. D., Hooper, J., Thomas, J. M., Bulik, C. M., Pence, B. W., Pratley, R. E., Kosorok, M. R., Maahs, D. M., Carroll, I. M., & Mayer-Davis, E. J. (2023). Associations of Dietary Intake with the Intestinal Microbiota and Short-Chain Fatty Acids Among Young Adults with Type 1 Diabetes and Overweight or Obesity. *The Journal of nutrition*, 153(4), 1178–1188. <https://doi.org/10.1016/j.tjnut.2022.12.017>
5. Al Barwani, S., Hodges, E. A., Thoyre, S. M., Knafl, K. A., Crandell, J. L., & Sullivan, C. (2023). CROSS-CULTURAL ADAPTATION AND LINGUISTIC VALIDATION OF THE TRANSLATED ARABIC REVISED BREASTFEEDING ATTRITION PREDICTION TOOL. *Journal of nursing measurement*, 31(1), 5–18. <https://doi.org/10.1891/JNM-D-21-00036>
6. Woodley, L. K., Rodriguez Dos Santos, M., Crandell, J. L., Grant, G. G., & Cosgrove, B. (2023). Collaborative online international learning in undergraduate nursing education: from inspiration to impact. *International journal of nursing education scholarship*, 20(1), 10.1515/ijnes-2022-0077. <https://doi.org/10.1515/ijnes-2022-0077>
7. Muntis, F. R., Igudesman, D., Sarteau, A. C., Thomas, J., Arrizon-Ruiz, N., Hooper, J., Addala, A., Crandell, J. L., Riddell, M. C., Maahs, D. M., Pratley, R. E., Corbin, K., Mayer-Davis, E. J., Zaharieva, D. P., & ACT1ON Consortium (2022). Relationship Between Moderate-to-Vigorous Physical Activity

- and Glycemia Among Young Adults with Type 1 Diabetes and Overweight or Obesity: Results from the Advancing Care for Type 1 Diabetes and Obesity Network (ACT1ON) Study. *Diabetes technology & therapeutics*, 24(12), 881–891. <https://doi.org/10.1089/dia.2022.0253>
8. Igudesman, D., Crandell, J., Corbin, K. D., Zaharieva, D. P., Addala, A., Thomas, J. M., Casu, A., Kirkman, M. S., Pokaparakarn, T., Riddell, M. C., Burger, K., Pratley, R. E., Kosorok, M. R., Maahs, D. M., Mayer-Davis, E. J., & ACTION Study Group (2023). Weight management in young adults with type 1 diabetes: The advancing care for type 1 diabetes and obesity network sequential multiple assignment randomized trial pilot results. *Diabetes, obesity & metabolism*, 25(3), 688–699. <https://doi.org/10.1111/dom.14911>
 9. Igudesman, D., Crandell, J., Corbin, K. D., Zaharieva, D. P., Addala, A., Thomas, J. M., Bulik, C. M., Pence, B. W., Pratley, R. E., Kosorok, M. R., Maahs, D. M., Carroll, I. M., & Mayer-Davis, E. J. (2023). Associations of disordered eating with the intestinal microbiota and short-chain fatty acids among young adults with type 1 diabetes. *Nutrition, metabolism, and cardiovascular diseases: NMCD*, 33(2), 388–398. <https://doi.org/10.1016/j.numecd.2022.11.017>
 10. Irwin, A., Igudesman, D., Crandell, J., Kichler, J. C., Kahkoska, A. R., Burger, K., Zaharieva, D. P., Addala, A., & Mayer-Davis, E. J. (2022). Mindfulness, disordered eating, and impulsivity in relation to glycemia among adolescents with type 1 diabetes and suboptimal glycemia from the Flexible Lifestyles Empowering Change (FLEX) intervention trial. *Pediatric diabetes*, 23(4), 516–526. <https://doi.org/10.1111/pedi.13334>
 11. Corbin, K. D., Igudesman, D., Addala, A., Casu, A., Crandell, J., Kosorok, M. R., Maahs, D. M., Pokaparakarn, T., Pratley, R. E., Souris, K. J., Thomas, J. M., Zaharieva, D. P., Mayer-Davis, E. J., & ACT1ON Consortium (2022). Design of the Advancing Care for Type 1 Diabetes and Obesity Network energy metabolism and sequential multiple assignment randomized trial nutrition pilot studies: An integrated approach to develop weight management solutions for individuals with type 1 diabetes. *Contemporary clinical trials*, 117, 106765. <https://doi.org/10.1016/j.cct.2022.106765>
 12. Sarteau, A. C., Kahkoska, A. R., Crandell, J., Igudesman, D., Corbin, K. D., Kichler, J. C., Maahs, D. M., Muntis, F., Pratley, R., Seid, M., Zaharieva, D., & Mayer-Davis, E. (2022). More hypoglycemia not associated with increasing estimated adiposity in youth with type 1 diabetes. *Pediatric research*, 10.1038/s41390-022-02129-1. Advance online publication. <https://doi.org/10.1038/s41390-022-02129-1>
 13. House, S., Crandell, J., Miller, M., & Stucky, C. (2022). The impact of professional role and demographic characteristics on job satisfaction and retention among healthcare professionals in a military hospital. *Nursing forum*, 57(6), 1034–1043. <https://doi.org/10.1111/nuf.12777>
 14. House, S., Crandell, J., Stucky, C., & Wilmoth, M. (2022). Relational Coordination Among Military and Civilian Nurses and Physicians in an Army Hospital: Do Demographic Characteristics and Professional Roles Matter?. *The Journal of nursing administration*, 52(5), 293–300. <https://doi.org/10.1097/NNA.0000000000001150>
 15. Jung, A., Crandell, J. L., Nielsen, M. E., Smith, S. K., Bryant, A. L., & Mayer, D. K. (2022). Relationships among uncertainty, post-traumatic stress disorder symptoms, and quality of life in non-muscle-invasive bladder cancer survivors. *Supportive care in cancer: official journal of the Multinational Association of Supportive Care in Cancer*, 30(7), 6175–6185. <https://doi.org/10.1007/s00520-022-07034-1>

16. Salomon, R. E., Muscatell, K. A., Crandell, J., Anderson, R. A., & Beeber, L. S. (2021). A Preliminary Investigation of Psychoneurological Symptoms in Low-Income Mothers. *Nursing research*, 70(5), 325–333. <https://doi.org/10.1097/NNR.0000000000000518>
17. Grossman, J., Ward, A., Crandell, J. L., Prahald, P., Maahs, D. M., & Scheinker, D. (2021). Improved individual and population-level HbA1c estimation using CGM data and patient characteristics. *Journal of diabetes and its complications*, 35(8), 107950. <https://doi.org/10.1016/j.jdiacomp.2021.107950>
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33. 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.
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43. Costacou, T., Crandell, J., Kahkoska, A. R., Liese, A. D., Dabelea, D., Lawrence, J. M. & Mottl, A. K. (2018). Dietary Patterns Over Time and Microalbuminuria in Youth and Young Adults With Type 1 Diabetes: The SEARCH Nutrition Ancillary Study. *Diabetes Care*, 41(8), 1615–1622. <https://doi.org/10.2337/dc18-0319>
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47. Kahkoska, A.R., Shay, C.M., Couch, S.C., Crandell, J., Dabalea, D., Gourgari, E., Lawrence, J.M., Liese, A.D., Pihoker, C., Reboussin, B.A., The, N., & Mayer-Daivs, E.J. (2018). Sociodemographic associations of longitudinal adiposity in youth with Type 1 diabetes. *Pediatric Diabetes*, EPUB, doi: 10.1111/pedi.12753
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Publications under maiden name, J.L. Bigelow:

107. 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.
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Refereed Abstracts

1. Muntis, F. R., Igudesman, D., Sarteau, A. C., Thomas, J., Arrizon-Ruiz, N., Hooper, J., Addala, A., Crandell, J. L., Riddell, M. C., Maahs, D. M., Pratley, R. E., Corbin, K., Mayer-Davis, E. J., Zaharieva, D. P., & ACT1ON Consortium (2022). Relationship Between Moderate-to-Vigorous Physical Activity and Glycemia Among Young Adults with Type 1 Diabetes and Overweight or Obesity: Results from the Advancing Care for Type 1 Diabetes and Obesity Network (ACT1ON) Study. *Diabetes technology & therapeutics*, 24(12), 881–891. <https://doi.org/10.1089/dia.2022.0253>
2. Corbin, K. D., Igudesman, D., Addala, A., Casu, A., Crandell, J., Kosorok, M. R., Maahs, D. M., Pokrapakarn, T., Pratley, R. E., Souris, K. J., Thomas, J. M., Zaharieva, D. P., Mayer-Davis, E. J., & ACT1ON Consortium (2022). Design of the Advancing Care for Type 1 Diabetes and Obesity Network energy metabolism and sequential multiple assignment randomized trial nutrition pilot studies: An integrated approach to develop weight management solutions for individuals with type 1 diabetes. *Contemporary clinical trials*, 117, 106765. <https://doi.org/10.1016/j.cct.2022.106765>
3. ANNA R. KAHKOSKA, JAMIE CRANDELL, KIMBERLY A. DRISCOLL, MICHAEL R. KOSOROK, DAVID M. MAAHS, ELIZABETH J. MAYER-DAVIS; Correlates of Hypoglycemia among Youth with Type 1 Diabetes (T1D) and Suboptimal Glycemic Control. *Diabetes* 1 July 2018; 67 (Supplement_1): 378–P. <https://doi.org/10.2337/db18-378-P>
4. 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.

5. 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.
6. 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.
7. Wang, S., Crandell, J., Couch, S., King, I., Lawrence, J., Dabelea, 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.
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10. 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.
11. 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.
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Refereed Presentations

1. Thompson, K., Park, J., Crandell, J., & Thoyre, S. (2023) Using Developmental Readiness Signs for Introducing Solids to High-Risk Infants. Poster presentation at the American Speech-Language-Hearing Association Annual Convention. Boston, MA. (Received “Meritorious poster” recognition, a distinction awarded to less than 5% of all poster submissions).
2. Thompson, K., Park, J., Thoyre, S. & Crandell, J. (2022) Social Determinants of Health and Feeding in the First 6 months in High-risk Infants. Poster presentation at the American Speech-Language-Hearing Association Annual Convention. Phoenix, AZ. (Received “Meritorious poster” recognition, a distinction awarded to less than 5% of all poster submissions).
- 3.
4. House, S., Crandell, J., Wilmoth, M., Stucky, C. (2022). Relational coordination among nurses and physicians in a military medical center. Poster Presentation at the Academy Health Conference. Leading Evidence in a Time of Change. Washington, D.C.
5. Jung, A., Nielsen, M., Crandell, J., Bryant, A., Smith, S., & Mayer, D. (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.

6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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
12. Cates, J.R., Trogdon, 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. Havill, N., Fleming, L., Knafel, 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.

18. Knafl, 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.
19. 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.
20. 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.
21. Knafl, 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.
22. Knafl, 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.
23. 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.
24. 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.
25. 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.
26. 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.
27. 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.
28. 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.
29. Liese A., Fangman M.T., Crandell J., Tooze 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.

30. 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.
31. 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.
32. 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.
33. 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.
34. 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.
35. 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
36. 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.
37. 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.
38. 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.
39. 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.
40. 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
41. 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

42. 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
43. Bigelow J.L. and Dunson D.B. (2005, August). *Bayesian Approaches to Epidemiologic Data Analysis*. Paper presented at the Joint Statistical Meetings, Minneapolis, MN.
44. 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 (all years), Course Lead (2021-2023)	Fall 2018, Fall 2019, Fall 2020, Fall 2021, Fall 2022, Fall 2023	2	160, 220, 240, 380, 290, 280
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)

Student	Role	Dates
Rebeca Harris	Committee	2022-
Prashamsa Sannareddy	Committee	2022-

PhD students (Past)

Student	Role	Dissertation title	Dates
Franklin Muntis (Nutrition)	Committee	Bridging Sports Nutrition & Diabetes Care: Assessing the Role of Protein Intake and Timing on Glycemia During and Following Physical Activity Among Adolescents and Adults with Type 1 Diabetes	2021-2023
Jill Leckey	Committee	Anxiety associated with an implantable cardioverter defibrillator and reproductive health needs among women with cardiovascular disease	2020-2023
Daria Igudesman (Nutrition)	Committee	Associations of the intestinal microbiota with diet, glycemia, adiposity, and disordered eating among young adults with Type 1 diabetes	2018-2021
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	The HARMONY Study: A Culturally - relevant, randomized-controlled, stress management intervention to reduce cardiometabolic risk in African American women (Giscombe, PI)	\$3,069,652	5-15%	NINR	07/01/20-07/01/25
Co-I	Promoting stretching exercise to reduce cardiovascular health risk in late pregnant women with obesity (Yeo, PI)	\$2,271,416	10-15%	NINR	08/6/19-05/31/24

Co-I	Symptom Trajectories in Infants and Toddlers at Risk for Chronic Feeding Problems (Thoyre, PI)	\$2,660,648,	5-15%	NINR	9/25/19-6/30/24
Statistician	Individualized Structured Eating Plans to Improve Glycemic Control in Adolescents with Type 1 Diabetes (Mayer-Davis, PI)	\$372,000	1-3%	NIDDK	04/21-03/24

Funded (Completed)

Role	Title	Award Amount	Percent Effort	Agency	Dates
Statistician	Menopause and biomarkers of Alzheimer's disease risk in midlife Latinas. (Cortes, PI)				07/21-07/23
Co-I	Healthy Mothers-Healthy Children: An Intervention with Hispanic Mothers and their Young Children (Santos, PI)	\$2,974,000	5-15%	NINR	09/2018-07/2023
Statistician	HeartHome: A Nurse-Driven, Home-Based Cardiac Rehabilitation Program to Reduce Health Disparities for Cardiac Patients Living in Rural and Underserved Areas of the Carolinas (Jones, PI)	\$710,000	5-10%	Duke Endowment Fund	07/2018-12/2022
Co-I	Accelerating Solutions to Optimize Glycemic Control and Weight Management In Young Adults with Type 1 Diabetes (Mayer-Davis, PI)	\$1,911,815	10-20%	NIDDK	09/2018-03/2021
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	FI3x: 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	FI3x: 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
Associate Dean for Research Search Committee	Member	2022
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.