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EDUCATION

Ph.D., 2008, Statistics, University of Iowa, Iowa City, IA
M.S., 2004, Statistics, University of Iowa, Iowa City, IA
B.E., 1998, Industrial Foreign Trade, Beijing Institute of Technology, Beijing, China

POSITIONS

Associate Professor, Department of Public Health, Brody School of Medicine, East Carolina University, 07/2022 – Present.

Associate Professor, Department of Biostatistics, College of Allied Health Sciences, East Carolina University, 07/2015 – 06/2022.

Assistant Professor, Department of Biostatistics, College of Allied Health Sciences, East Carolina University, 08/2008 – 06/2015.

Teaching/Research Assistant, Department of Statistics and Actuarial Sciences, University of Iowa, 01/2003 – 07/2008.

Statistician (Professional and Scientific Staff), College of Nursing, University of Iowa, 07/2006 – 05/2007.

RESEARCH INTERESTS

Generalized additive models, spatio-temporal modeling, spatial epidemiology, linear mixed models, longitudinal data analysis, and statistical applications in biological, environmental and health sciences

PUBLICATIONS

Filip Jevtovic, Donghai Zheng, Joseph A Houmard, Polina M Krassovskaia, Christian A Lopez, Breanna L Wisseman, Dylan M Steen, Nicholas T Broskey, Christy Isler, Jim DeVente, **Xiangming Fang**, and Linda E May (2023). Effects of maternal exercise modes on glucose and lipid metabolism in offspring stem cells. *The Journal of Clinical Endocrinology & Metabolism*. DOI: <https://doi.org/10.1210/clinem/dgad059>.

Andrew J. Vermiglio, Hannah Osborne, Elizabeth Bonilla, Lauren Leclerc, Meagan Thornton, and **Xiangming Fang** (2022). The relationship between speech perception in

- quiet and in noise for young adults with normal pure-tone thresholds. *Journal of the American Academy of Audiology*. Accepted.
- Lakshmi Kollara, Jamie L. Perry, Richard E. Kirschner, **Xiangming Fang**, and Adriane L. Baylis (2022). Assessment of the velopharyngeal mechanism at rest and during speech in children with 22q11.2DS: a cross-sectional study. *The Cleft Palate-Craniofacial Journal*. In Press. DOI: <https://doi.org/10.1177/10556656221100674>.
- Andrew J. Vermiglio and **Xiangming Fang** (2022). The World Health Organization (WHO) hearing impairment guidelines and a speech recognition in noise (SRN) disorder. *International Journal of Audiology* 61(10), 818-825.
- Sina Kazemzadeh, Chloe E. Opper, **Xiangming Fang**, and Suzanne Lazorick (2022). Determining trends and factors associated with self-reported physical activity among adolescents in rural North Carolina. *International Journal of Environmental Research and Public Health* 19(18), 11417. DOI: <https://doi.org/10.3390/ijerph191811417>.
- Jamie L. Perry, Abigail E. Haenssler, Katelyn J. Kotlarek, Joshua Y. Chen, **Xiangming Fang**, Yifan Guo, Kazlin Mason, and Michael Webb (2022). Does the type of MRI sequence influence perceived quality and measurement consistency in investigations of the anatomy of the velopharynx? *The Cleft Palate-Craniofacial Journal* 59(6), 741-750.
- Katelyn J. Kotlarek, Michael S. Jaskolka, **Xiangming Fang**, Charles Ellis, Silvia S. Blemker, Bruce Horswell, Paul Kloostra, and Jamie L. Perry (2022). A preliminary study of anatomical changes following the use of a pedicled buccal fat pad flap during primary palatoplasty. *The Cleft Palate-Craniofacial Journal* 59(5), 614-621.
- Austin L. Rogers, Robert D. Allman, **Xiangming Fang**, Linda C. Kindell, Leslie W. Nifong, Benjamin C. Degner, Shahab A. Akhter (2022). Thromboelastography-platelet mapping allows safe and earlier urgent coronary artery bypass grafting. *The Annals of Thoracic Surgery* 113(4), 1119-1125.
- Jamie L. Perry, Abigail E. Haenssler, Katelyn J. Kotlarek, **Xiangming Fang**, Shea Middleton, Robert Mason, and David P. Kuehn (2022). A midsagittal-view MRI study of the growth and involution of the adenoid mass and related changes in selected velopharyngeal structures. *Journal of Speech, Language, and Hearing Research* 65(4), 1282-1293.
- Frederick Stine, Caroline B Collier, **Xiangming Fang**, Kelsey Ross Dew, and Suzanne Lazorick (2021). Impact of BMI, Socioeconomic Status and Bedtime Technology Use on Sleep Duration in Adolescents. *Clinical Pediatrics* 60(13), 520-527.
- Robert D. Allman, Austin L. Rogers, Patrycja Popowicz, **Xiangming Fang**, Ronny A. Bell, Michael J. Bates, Shahab A. Akhter, and Benjamin C. Degner (2021). Analysis of racial disparities in acute type A aortic dissection repair at a rural tertiary academic medical center. *Journal of Cardiac Surgery* 36(11), 4238-4242.
- Andrew J. Vermiglio, Lauren Leclerc, Meagan Thornton, Hannah Osborne, Elizabeth Bonilla, and **Xiangming Fang** (2021). Diagnostic Accuracy of the AzBio Speech Recognition in Noise Test. *Journal of Speech, Language, and Hearing Research* 64(8), 3303-3316.

- Neda Tahmasebifard, Charles Ellis, Kathrin Rothermich, **Xiangming Fang**, and Jamie L. Perry (2021). Evaluation of the symmetry of the levator veli palatini muscle and velopharyngeal closure among a noncleft adult population. *The Cleft Palate-Craniofacial Journal* 58(6), 728-735.
- Graham C. Schenck, Jamie L. Perry, Mary M. O’Gara, Amy Morgan Linde, Mitchell F. Grasseschi, Robert J. Wood, Martin S. Lacey, and **Xiangming Fang** (2021). Velopharyngeal Muscle Morphology in Children With Unrepaired Submucous Cleft Palate: An Imaging Study. *The Cleft Palate-Craniofacial Journal* 58(3), 313-323.
- Molly Jacobs, Patrick M Briley, **Xiangming Fang**, and Charles Ellis (2021). Telepractice Treatment for Aphasia: Association between Clinical Outcomes and Client Satisfaction. *Telemedicine Reports* 2(1), 118-124.
- Andrew J. Vermiglio, Emery Bulla, Julia Skinner, Paige Heeke, **Xiangming Fang**, Keerthana Velappan, Elizabeth Bonilla, and Ellie Garner (2021). A convergent validity study: Listening in Spatialized Noise-Sentences (LiSN-S) test and the Hearing in Noise Test (HINT). *International Journal of Audiology* 60(1), 27-34.
- Abigail E. Haenssler, **Xiangming Fang**, and Jamie L. Perry (2020). Effective velopharyngeal ratio: a more clinically relevant measure of velopharyngeal function. *Journal of Speech, Language, and Hearing Research* 63(11), 3586-3593.
- Eshan Pua, Catherine Pelland, Charles Ellis, **Xiangming Fang**, Stephen Leierer, Bradley Sutton, David Kuehn, Silvia Blemker, and Jamie Perry (2020). Identifying Predictors of Levator Veli Palatini Muscle Contraction during Speech using Dynamic MRI. *Journal of Speech, Language, and Hearing Research* 63(6), 1726-1735.
- Katelyn J. Kotlarek, Catherine M. Pelland, Silvia S. Blemker, Michael S. Jaskolka, **Xiangming Fang**, and Jamie L. Perry (2020). Asymmetry and positioning of the levator veli palatini muscle in children with repaired cleft palate. *Journal of Speech, Language, and Hearing Research* 63(5), 1317-1325.
- Kimberly May, Stephanie Jilcott Pitts, Verginia C. Stage, Casey J. Kelley, Sarah Burkholder, **Xiangming Fang**, April Zeng, and Suzanne Lazorick (2020). Use of the Veggie Meter® as a tool to objectively approximate fruit and vegetable intake among youth for evaluation of preschool and school-based interventions. *Journal of Human Nutrition and Dietetics* 33(6), 869-875.
- Chloe E. Opper, Caroline B Collier, **Xiangming Fang**, and Suzanne Lazorick (2020). Measuring determinants of health for a school-based obesity intervention. *Health Behavior and Policy Review* 7(3), 223-237.
- Andrew J. Vermiglio, Sigfrid D. Soli, Daniel J. Freed, and **Xiangming Fang** (2020). The effect of stimulus audibility on the relationship between pure-tone average and speech recognition in noise ability. *Journal of the American Academy of Audiology* 31(3), 224-232.
- Abigail E. Haenssler, Adriane Baylis, Jamie L. Perry, Lakshmi Kollara, **Xiangming Fang**, and Richard Kirschner (2020). Impact of cranial base abnormalities on cerebellar volume and the velopharynx in 22q11.2 Deletion Syndrome. *The Cleft Palate-Craniofacial Journal* 57(4), 412-419.

- Lakshmi Kollara, Adriane Baylis, Richard Kirschner, Gregory Bates, Mark Smith, **Xiangming Fang**, and Jamie L. Perry (2019). Velopharyngeal structural and muscle variations in children with 22q11.2 deletion syndrome: an unsedated MRI study. *The Cleft Palate-Craniofacial Journal* 56(9), 1139-1148.
- Jamie L. Perry, Joshua Y. Chen, Katelyn J. Kotlarek, Abigail Haenssler, Bradley P. Sutton, David P. Kuehn, Thomas J. Sitzman, and **Xiangming Fang** (2019). Morphology of the musculus uvulae in vivo using mri and 3D modeling among adults with normal anatomy and preliminary comparison to cleft palate anatomy. *The Cleft Palate-Craniofacial Journal* 56(8), 993-1000.
- Saryu Sharma, Patrick M. Briley, Heather Harris Wright, Jamie L. Perry, **Xiangming Fang**, and Charles Ellis (2019). Gender differences in aphasia outcomes: evidence from the AphasiaBank. *International Journal of Language & Communication Disorders* 54(5), 806-813.
- Jamie L. Perry, Lakshmi Kollara, Bradley P. Sutton, David P. Kuehn, and **Xiangming Fang** (2019). Growth effects on velopharyngeal anatomy from childhood to adulthood. *Journal of Speech, Language, and Hearing Research* 62(3), 682-692.
- Erin Clark, Christy Isler, Diana Strickland, Amy Gross McMillan, **Xiangming Fang**, Devon Kuehn, Srikanth Ravisankar, Cody Strom, and Linda E May (2019). Influence of aerobic exercise on maternal lipid levels and offspring morphometrics. *International Journal of Obesity* 43(3), 594-602.
- Eshan Pua, Yolanda Holt, Lakshmi Kollara, Balaji Rangarathnam, **Xiangming Fang**, and Jamie L. Perry (2019). Evaluating nasalance values among bilingual Mandarin-English speakers. *The Cleft Palate-Craniofacial Journal* 56(4), 462-470.
- Kristie Hicks, Stephanie B. Pitts, Suzanne Lazorick, **Xiangming Fang**, and Ann P. Rafferty (2019). Examining the association between screen time, beverage and snack consumption, and weight status among eastern North Carolina youth. *NC Medical Journal* 80(2), 69-75.
- Andrew J. Vermiglio, Caroline Herring, Paige Heeke, Courtney Post, and **Xiangming Fang** (2019). Sentence recognition in steady-state speech-shaped noise versus four-talker babble. *Journal of the American Academy of Audiology* 30(1), 54-65.
- Andrew J. Vermiglio, Keerthana Velappan, Paige Heeke, Emery Bulla, **Xiangming Fang**, Elizabeth Bonilla, Elizabeth Garner, and Julia Skinner (2019). The relationship between speech recognition in noise and non-speech recognition in noise test performances: Implications for central auditory processing disorders testing. *Journal of Communication Disorders* 77, 31-43.
- Jamie L. Perry, Katelyn J. Kotlarek, Bradley P. Sutton, David P. Kuehn, Michael S. Jaskolka, **Xiangming Fang**, Stuart W. Point, and Frank Rauccio (2018). Variations in velopharyngeal structure in adults with repaired cleft palate. *The Cleft Palate-Craniofacial Journal* 55(10), 1409-1418.
- Paige Heeke, Andrew J. Vermiglio, Emery E. Bulla, Keerthana Velappan, and **Xiangming Fang** (2018). The relationship between random gap detection and hearing in noise test performances. *Journal of the American Academy of Audiology*. 29(10), 948-954.

- Samantha McDonald, Nichelle A. Satterfield, Linda E. May, Edward R. Newton, Jeffrey Livingston, and **Xiangming Fang** (2018). Influence of maternal exercise on fetal heart response during labor and delivery. *Health Science Reports* 1(10): e81.
- Oyinlola T. Babatunde, Patrick M. Briley, Brandi M. White, **Xiangming Fang**, and Charles Ellis (2018). Dietary practices among stroke-survivors—racial/ethnic differences. *Journal of Stroke and Cerebrovascular Diseases* 27(11), 2926-2931.
- Andrew J. Vermiglio, Stephanie Griffin, Courtney Post, and **Xiangming Fang** (2018). An evaluation of the World Health Organization and American Medical Association ratings of hearing impairment and simulated single-sided deafness. *Journal of the American Academy of Audiology* 29(7), 634-647.
- Andrew J. Vermiglio, Sigfrid D. Soli, and **Xiangming Fang** (2018). An argument for self-report as a reference standard in audiology. *Journal of the American Academy of Audiology* 29(3), 206-222.
- Jamie L. Perry, Lakshmi Kollara, David P. Kuehn, Bradley P. Sutton, and **Xiangming Fang** (2018). Examining age, sex, and race characteristics of velopharyngeal structures in 4- to 9-year-old children using magnetic resonance imaging. *The Cleft Palate-Craniofacial Journal* 55(1), 21-34.
- Jamie L. Perry, David P. Kuehn, Bradley P. Sutton, and **Xiangming Fang** (2017). Velopharyngeal structural and functional assessment of speech in young children using dynamic magnetic resonance imaging. *The Cleft Palate-Craniofacial Journal* 54(4), 408-422.
- Pooja Purswan, Suzanne Lazorick, **Xiangming Fang**, and George T. Hardson (2017). Effect of school-based wellness intervention in 7th graders on stage of change for lifestyle behaviors: The MATCH Program. *Journal of Childhood Obesity* 2:4. DOI: 10.21767/2572-5394.10026.
- Josh Bendickson, Shelby Solomon, and **Xiangming Fang** (2017). Prospect theory: The impact of relative distances. *Journal of Managerial Issues* 29(2), 155-168.
- Katelyn J. Kotlarek, Jamie L. Perry, and **Xiangming Fang** (2017). Morphology of the levator veli palatini muscle in adults with repaired cleft palate. *Journal of Craniofacial Surgery* 28(3), 833-837.
- Holly N. Jordan, Graham C. Schenck, Charles Ellis, Balaji Rangarathnam, **Xiangming Fang**, and Jamie L. Perry (2017). Examining velopharyngeal closure patterns based on anatomic variables. *Journal of Craniofacial Surgery* 28(1), 270-274.
- Bryce L. Jorgensen, Damon L. Rappleyea, John T. Schweichler, **Xiangming Fang**, and Mary E. Moran (2017). The financial behavior of emerging adults: a family financial socialization approach. *Journal of Family and Economic Issues* 38(1), 57-69.
- Tejas Desai, Sadeem Ali, **Xiangming Fang**, Wanda Thompson, Pankaj Jawa, and Tushar Vachharajani (2016). Equal work for unequal pay: the gender reimbursement gap for healthcare providers in the United States. *Postgraduate Medical Journal* 92(1092), 571-575.
- Tejas Desai, Vibhu Dhingra, Afreen Shariff, Aabid Shariff, Edgar Lerma, Parteek Singla, Swapnil Kachare, Zoheb Syed, Deeba Minhas, Ryan Madanick, and **Xiangming Fang**

- (2016). Quantifying the twitter influence of third party commercial entities versus healthcare providers in thirteen medical conferences from 2011 – 2013. *PLoS ONE* 11(9): e0162376.
- Graham C. Schenck, Jamie L. Perry, and **Xiangming Fang** (2016). Normative velopharyngeal data in infants: implications for treatment of cleft palate. *Journal of Craniofacial Surgery* 27(6), 1430-1439.
- Charles Ellis, **Xiangming Fang**, and Patrick Briley (2016). Temporal aspects of global coherence during discourse production in early stage Parkinson's disease. *Advances in Parkinson's Disease* 5(3), 41-49.
- Linda May, Jennifer R. Knowlton, Jessica A. Hanson, Richard R. Suminski, Christopher Paynter, **Xiangming Fang**, and Kathleen M. Gustafson (2016). Effects of exercise during pregnancy on maternal heart rate and heart rate variability. *PM&R* 8(7), 611-617.
- Suzanne Lazorick, **Xiangming Fang**, and Yancey Crawford (2016). The MATCH Program- Long term obesity prevention through a middle school based intervention. *Childhood Obesity* 12(2), 103-112.
- Kazlin Mason, Jamie L. Perry, John Riski, and **Xiangming Fang** (2016). Age related changes between the level of velopharyngeal closure and the cervical spine. *Journal of Craniofacial Surgery* 27(2), 498-503.
- Jamie L. Perry, David P. Kuehn, Bradley P. Sutton, Jinadasa Gamage, and **Xiangming Fang** (2016). Anthropometric analysis of the velopharynx and related craniometric dimensions in three adult populations using MRI. *The Cleft Palate-Craniofacial Journal* 53(1), e1-e13.
- Carmen Moyer, Jeffrey Livingston, **Xiangming Fang**, and Linda May (2015). Influence of exercise mode on pregnancy outcomes: ENHANCED by Mom project. *BMC Pregnancy and Childbirth* 15:133. DOI: 10.1186/s12884-015-0556-6.
- Suzanne Lazorick, **Xiangming Fang**, George T. Hardison, and Yancey Crawford (2015). Improved BMI measures following a middle school-based obesity intervention- The MATCH program. *Journal of School Health* 85(10), 680-687.
- Tejas Desai, Vibhu Dhingra, Afreen Shariff, Aabid Shariff, Edgar Lerma, Parteek Singla, Swapnil Kachare, Zoheb Syed, Deeba Minhas, Ryan Madanick, **Xiangming Fang** (2015). Measuring the Influence of Commercial Entities in the Twitter backchannels of medical conferences: The #MICEproject, *The Winnower* 3:e143688.88406. DOI: 10.15200/winn.143688.88406.
- Xiangming Fang** and Kung-Sik Chan (2015). Additive models with spatio-temporal data. *Environmental and Ecological Statistics* 22(1), 61-86.
- Prutha Patel, John W. Norbury, and **Xiangming Fang** (2014). Sonographic measurements of the ulnar nerve at the elbow with different degrees of elbow flexion. *PM&R* 6(5), 395-399.
- Damon L. Rappleyea, Alan C. Taylor, and **Xiangming Fang** (2014). Gender differences and communication technology use among emerging adults in the initiation of dating relationships. *Marriage & Family Review* 50(3), 269-284.

- Suzanne Lazorick, Yancey Crawford, Anthony Gilbird, **Xiangming Fang**, Veronica Burr, Valeria Moore, and George T. Hardison (2014). Long term obesity prevention and the Motivating Adolescents with Technology to CHOOSE Health program. *Childhood Obesity* 10(1), 25-33.
- Amit S. Kelkar, Monica S. Hough, and **Xiangming Fang** (2013). Do we think alike? A cross-cultural study of executive functioning. *Culture and Brain* 1(2-4), 118-137.
- Alan C. Taylor, Damon L. Rappleyea, **Xiangming Fang**, and Dylan Cannon (2013). Emerging adults' perceptions of acceptable behaviors prior to forming a committed, dating relationship. *Journal of Adult Development* 20(4), 173-184.
- Clinton E Faulk, Natalie R Cooper, Judit A Staneata, Michael P Bunch, Enrique Galang, **Xiangming Fang**, and Keith J Foster (2013). Rate of return to acute care hospital based on day and time of rehabilitation admission. *PM&R* 5(9), 757-762.
- Afreen I. Shariff, **Xiangming Fang**, and Tejas Desai (2013). Using social media to create a professional network between physician trainees and the American Society of Nephrology. *Advances in Chronic Kidney Disease* 20(4), 357-363.
- Tejas Desai, Vivek Sanghani, **Xiangming Fang**, Cynthia Christiano, and Maria Ferris (2013). Assessing a nephrology-focused YouTube channel's potential to educate health care providers. *Journal of Nephrology* 26(1), 81-85.
- Elizabeth D. Wall-Bassett, Laura Gantt, **Xiangming Fang**, Nancy G. Harris, Jamie Hopkins, Shelby Donnelly, Jacqueline Lancaster Prevost, and Marynese Titre (2013). Evaluating knowledge and self-efficacy among caribbean healthcare workers through a community engagement nutrition education program. *Journal of Community Nutrition and Health* 1(2), 52-59.
- Dale L. Zimmerman, Peng Sun, and **Xiangming Fang** (2012). Likelihood-based estimation of spatial intensity and variation in disease risk from locations subject to geocoding errors. *Statistics and Its Interface* 5(2), 207-220.
- Dale L. Zimmerman and **Xiangming Fang** (2012). Estimating spatial variation in disease risk from locations coarsened by incomplete geocoding. *Statistical Methodology* 9(1-2), 239-250.
- Tejas Desai, **Xiangming Fang**, and Maria Ferris (2012). Introducing the global medical community to the information presented at local scientific conferences through nephrology blogs. *F1000 Research* 1:66.
- Tejas Desai, Afreen Shariff, Aabid Shariff, Mark Kats, **Xiangming Fang**, Cynthia Christiano, and Maria Ferris (2012). Tweeting the Meeting: A in-depth analysis of Twitter activity at Kidney Week 2011. *PLoS ONE* 7(7): e40253.
- Elizabeth D. Wall-Bassett, M. Elizabeth Kunkel, Pamela K. Guiste, Patrick D. Gerard, **Xiangming Fang**, and Jacqueline Lancaster Prevost (2012). Anthropometric status and nutrient intake of dominican children in schools with and without school feeding programs. *Topics in Clinical Nutrition* 27(2), 85-94.
- Wesley O'Neal, Matthew Winters, Kerri Augustino, **Xiangming Fang**, and Paul Cook (2012). TB screening in an HIV clinic: How interferon- γ assays improve screening

- compliance. *The International Journal of Tuberculosis and Lung Disease* 16(5), 707-707.
- Gus Jonathan Lewis, **Xiangming Fang**, Michael Gooch, and Paul Cook (2012). Decreased resistance of *Pseudomonas aeruginosa* with restriction of ciprofloxacin in a large teaching hospital's intensive and intermediate care units. *Infection Control and Hospital Epidemiology* 33(4), 368-373.
- Tejas Desai, Maria de Ferris, Cynthia Christiano, and **Xiangming Fang** (2012). Predicting the number of US medical graduates entering adult nephrology fellowships using search term analysis. *American Journal of Kidney Diseases* 59(3), 467-469.
- Paul P. Cook, Shemra Rizzo, Michael Gooch, Michelle Jordan, **Xiangming Fang**, and Suzanne Hudson (2011). Sustained reduction in antimicrobial use and decrease in methicillin-resistant *Staphylococcus aureus* and *Clostridium difficile* infections following implementation of an electronic medical record at a tertiary-care teaching hospital. *Journal of Antimicrobial Chemotherapy* 66(1), 205-209.
- Yan Li and **Xiangming Fang** (2010). A reappraisal of the exchange rate determination: a liquidity approach. *International Business Research* 3(4), 50-59.
- Jessica N. Kent, C. Suzanne Lea, **Xiangming Fang**, Lloyd F. Novick, and Jo Morgan (2010). Seasonal influenza vaccination rates among local health department personnel in North Carolina, 2007-2008. *American Journal of Preventive Medicine* 39(1), 74-77.
- Dale L. Zimmerman, Jie Li, and **Xiangming Fang** (2010). Spatial autocorrelation among automated geocoding errors and its effects on testing for disease clustering. *Statistics in Medicine* 29(9), 1025-1036.
- Dale L. Zimmerman, **Xiangming Fang**, and Soumya Mazumdar (2008). Spatial clustering of the failure to geocode and its implications for the detection of disease clustering. *Statistics in Medicine* 27(21), 4254-4266.
- Dale L. Zimmerman, **Xiangming Fang**, Soumya Mazumdar, and Gerard Rushton (2007). Modeling the probability distribution of positional errors incurred by residential address geocoding. *International Journal of Health Geographics*, 6:1.
- Xiangming Fang** and Guangming Hou (2002). A game-theory perspective of anti-dumping. *Journal of Beijing Institute of Technology (Social Sciences Edition)* 1, 62-64.
- Yan Li and **Xiangming Fang** (2001). The characteristics of R&D in a multinational corporation. *Journal of Beijing Institute of Technology (Social Sciences Edition)* 1, 68-71.
- Jin Dong, Yan Li, and **Xiangming Fang** (2000). Multinational companies' R&D presence in China. *Proceedings of the 2000 International Conference on Management Science and Engineering*, Beijing, China.

CONFERENCE PRESENTATIONS/ABSTRACTS

- Brandon Peine, **Xiangming Fang**, SaeRam Oh, Seth Quinn, Joseph Bethea, O Jesse Mendes, Linda Kindell, and Shahab A. Akhter (May 2023). Impact of Timing of Urgent Coronary Bypass Surgery Following Coronary Angiography on Acute Kidney Injury and Mortality in Patients with Chronic Kidney Disease. *103rd AATS Annual Meeting*. Los Angeles, CA.
- Abigail Haenssler, Robert Mann, Imani Gilbert, Taylor Snodgrass, Samuel Mann, **Xiangming Fang**, and Jamie L. Perry (May 2023). Anatomical and Physiological Changes Following Primary Palatoplasty Using the Buccal Flap Approach. *The American Cleft Palate-Craniofacial Association 80th Annual Meeting*. Raleigh, NC.
- Eshan Schleif, V. Wallace McCarlie, **Xiangming Fang**, Patrick Briley, and Jamie L. Perry (February 2023). The Influence of Orthodontic Appliances on MRI of the Velopharynx. *ECU Dental School CORAS (Celebration of Research and Scholarship)*. Greenville, NC.
- Benjamin C. Degner, Shahab A. Akhter, Michael J. Bates, **Xiangming Fang**, and Adam Celio (May 2022). Analysis of racial differences in secondary aortic surgery after initial acute type A aortic dissection repair. *2022 AATS Aortic Symposium*. Boston, MA.
- Young Joo Kim, Carley Overman, Anne Dickerson, **Xiangming Fang**, and Heather L. Panczykowski (April 2022). Individuals receiving inpatient rehabilitation show the highest objectively-measured physical activity level during occupational therapy. *2022 American Occupational Therapy Association Annual Conference*. San Antonio, TX.
- Abigail E. Haenssler, Katelyn J. Kotlarek, Joshua Chen, **Xiangming Fang**, Yifan Guo, Michael D. Webb, and Jamie L. Perry (March-April 2022). The Influence of MRI on Quality and Measurement Consistency on the Anatomy of the Velopharynx. *The American Cleft Palate-Craniofacial Association 79th Annual Meeting*. Fort Worth, TX.
- Sina Kazemzadeh, **Xiangming Fang**, and Suzanne Lazorick (May 2021). Determining Trends and Factors associated with Self-Reported Physical Activity among Adolescents in Rural North Carolina. *Pediatric Academic Societies 2021 Meeting*. Virtual.
- Abigail E. Haenssler, **Xiangming Fang**, and Jamie L. Perry (April 2021). Velopharyngeal Ratios Used as Clinical Determinants of Velopharyngeal Function. *The American Cleft Palate-Craniofacial Association 78th Annual Meeting*. Virtual.
- Neda Tahmasebifard, Charles Ellis, Kathrin Rothermich, **Xiangming Fang**, and Jamie L. Perry (April 2021). Evaluation of the symmetry of the levator veli palatini muscle and velopharyngeal closure among a noncleft adult population. *The American Cleft Palate-Craniofacial Association 78th Annual Meeting*. Virtual.
- Katelyn Kotlarek, Michael Jaskolka, **Xiangming Fang**, Charles Ellis, Bradley Sutton, Silvia Blemker, Bruce Horswell, Paul Klooster, and Jamie L. Perry (November 2020). Anatomical Changes Following Pedicled Buccal Fat Pad Graft During Primary Palatoplasty: A Preliminary Analysis. *2020 ASHA Convention*. Virtual.
- Adrian Pona, Yuxuan Mao, Rahim A Jiwani, Felix Afriyie, Jonathan Labbe, Ahmed Younes, Mai Badr, **Xiangming Fang**, Laila Zomorodian, Elisabeth Lee, and Paul P

- Cook (October 2020). Risk Factors for Death, Intubation and Cardiac Arrest among COVID-19 Patients Hospitalized in Eastern North Carolina. 2020 *IDWeek*. Virtual.
- Sina Kazemzadeh, **Xiangming Fang**, and Suzanne Lazorick (October 2020). Determining Trends and Factors associated with Self-Reported Physical Activity among Adolescents in Rural North Carolina. 2020 *Southern Medical Association Southern Regional Assembly*. Virtual.
- Suzanne Lazorick, **Xiangming Fang**, Kelsey Dew, Matthew Fawcett, Michele H. Wallen, and Thomas Francis Daly (May 2020). Students in middle schools implementing the MATCH integrated wellness curriculum and maintenance of academic outcomes. *Pediatric Academic Societies 2020 Meeting*, Philadelphia, PA.
- Charles Ellis, Patrick Briley, and Xiangming Fang (February 2020). Credibility, expectancy and satisfaction with community-based telepractice treatment for aphasia. *International Stroke Conference*, Los Angeles, CA.
- Eshan Pua, Catherine Pelland, Silvia Blemker, **Xiangming Fang**, Charles Ellis, Stephen Leierer, and Jamie Perry (November 2019). Use of Dynamic MRI for Sex Comparisons in Levator Veli Palatini Muscle Shortening and Velocities. *American Speech-Language-Hearing Association (ASHA) Annual Convention*, Orlando, FL.
- Abigail Haenssler, Shea Middleton, Kazlin Mason, Katelyn Kotlarek, **Xiangming Fang**, Robert Mason, and Jamie Perry (November 2019). Normative Adenoid Development From Infancy Through Adulthood. *American Speech-Language-Hearing Association (ASHA) Annual Convention*, Orlando, FL.
- Abigail Haenssler, **Xiangming Fang**, and Jamie Perry (November 2019). Is Velopharyngeal Ratio Really an Accurate Clinical Determinant of Velopharyngeal Function? *American Speech-Language-Hearing Association (ASHA) Annual Convention*, Orlando, FL.
- Neda Tahmasebifard, Jamie Perry, and **Xiangming Fang** (November 2019). Evaluation of the Levator Veli Palatini Muscle Asymmetry in the Non-Cleft Population Using MRI. *American Speech-Language-Hearing Association (ASHA) Annual Convention*, Orlando, FL.
- Lakshmi Kollara, Adriane Baylis, Richard Kirschner, D. Gregory Bates, Mark Smith, **Xiangming Fang**, and Jamie L. Perry (July 2018). Effects of the Craniofacial Complex & Velopharyngeal Musculature on Speech Resonance in 22q11.2 Deletion Syndrome. *American Speech-Language-Hearing Association (ASHA) Annual Convention*, Boston, MA.
- Oyinlola Toyin Babatunde, Sruthi Boddapati, and **Xiangming Fang** (October 2018). Racial-Ethnic Differences Exist in Fruit and Vegetable Consumption among Stroke Survivors- Findings from the 2015 BRFSS Data. *Food and Nutrition Conference and Expo (FNCE)*, Washington DC.
- Lakshmi Kollara, Adriane Baylis, Richard Kirschner, D. Gregory Bates, Mark Smith, **Xiangming Fang**, and Jamie L. Perry (July 2018). Velopharyngeal structural and muscle variations in children with 22q11.2 deletion syndrome. *The 11th Biennial International 22q11.2 Conference*, Whistler, BC, Canada.

- Reena Patel, Suzanne Lazorick, **Xiangming Fang**, B. Kelsey Ross, and George T. Hardison (May 2018). Change in self-reported water intake after the MATCH obesity intervention in middle school students. *Pediatric Academic Societies Annual Meeting*, Toronto, Canada.
- Chloe Opper, Suzanne Lazorick, **Xiangming Fang**, B. Kelsey Ross, and George T. Hardison (May 2018). Development of a scale to assess school and community determinants of health in a school-based wellness program and association with adolescent health measures. *Pediatric Academic Societies Annual Meeting*, Toronto, Canada.
- Eshan Pua, Jamie L. Perry, Lakshmi Kollara, Yolanda F. Holt, Balaji Rangarathnam, and **Xiangming Fang** (April 2018). Assessing the Nasalance of Native Mandarin Speakers in Mandarin & English. *Annual Meeting of the American Cleft Palate Association*, Pittsburgh, PA.
- Linda E May, Edward Newton, Diana M Strickland, Christy M Isler, Lisa Chasan-Taber, George A Kelley, R D Steed, Joseph A Houmard, and **Xiangming Fang** (March 2018). Maternal Aerobic Exercise Intervention Improves Fetal Heart and Growth Measures. *Epidemiology and Prevention | Lifestyle and Cardiometabolic Health*, New Orleans, LA.
- Eshan Pua, Lakshmi Kollara, Yolanda F. Holt, Charles Ellis, Balaji Rangarathnam, **Xiangming Fang**, and Jamie L. Perry (November 2017). Assessing the Nasalance of Native Mandarin Speakers in Mandarin & English. *Annual Convention of the American Speech- Language and Hearing Association*, Los Angeles, CA.
- Kristie Hicks, Suzanne Lazorick, Stephanie B. Pitts, and **Xiangming Fang** (October 2017). Examining the Association Between Screen Time, and Beverage and Snack Consumption Among NC Youth. *The Obesity Society Annual Meeting*, Washington DC.
- Clifford Long, Suzanne Lazorick, Ann P. Rafferty, and **Xiangming Fang** (October 2017). Examining Patterns of Beverage Consumption among NC Adolescents in the MATCH Program. *The Obesity Society Annual Meeting*, Washington DC.
- Suzanne Lazorick, **Xiangming Fang**, B. Kelsey Ross, and George T. Hardison (May 2017). Differences in self-reported nutrition behaviors in the MATCH middle school obesity intervention. *Pediatric Academic Societies Annual Meeting*, San Francisco, CA.
- Matthew Dauterive, Farnaz Houshmand, **Xiangming Fang**, Mark Mazer, and Arjun Mohan (May 2017). Mandatory Documentation of Tidal Volume on the Respiratory Flow Sheet Improves Compliance with Low Tidal Volume Ventilation Strategy: A 5-year Tertiary Care Center Experience. *American Thoracic Society International Conference*, Washington DC.
- Linda E May, Carmen M Moyer, Ed Newton, Diana Strickland, Christy Isler, Kelley Haven, Jim DeVente, Lisa Chasan-Taber, George Kelley, and **Xiangming Fang** (April 2017). Influence of Exercise and Maternal Lipids during Pregnancy on Neonatal Size. *Experimental Biology*, Chicago, IL.
- Lakshmi Kollara, Adriane Baylis, Richard Kirschner, D. Gregory Bates, Mark Smith, **Xiangming Fang**, and Jamie L. Perry (March 2017). An innovative, non-sedated mri

protocol to assess velopharyngeal variations in children with 22q11.2 deletion syndrome. *The American Cleft Palate-Craniofacial Association's (ACPA) 74th Annual Meeting*, Colorado Springs, CO.

Graham Schenck, Lakshmi Kollara, David P. Kuehn, **Xiangming Fang**, and Jamie L. Perry (November 2016). Effects of Surgery & CPAP Therapy on the Velopharyngeal Mechanism: A Single Case Study Report. *ASHA Annual Convention*, Philadelphia, PA.

Lakshmi Kollara, Adriane Baylis, Richard Kirschner, D. Gregory Bates, Mark Smith, **Xiangming Fang**, Heather Wright, Charles Ellis, and Jamie L. Perry (November 2016). Evaluating Velopharyngeal Structures in Children With 22q11.2 Deletion Syndrome Using an Innovative MRI Protocol. *ASHA Annual Convention*, Philadelphia, PA.

Ahmed Abubaker, Nada Fadul, and **Xiangming Fang** (October 2016). HIV Transmitted Drug Resistant in Rural Southern Community. *IDWeek*, New Orleans, LA.

Kazlin Mason, Jamie L. Perry, John Riski, and **Xiangming Fang** (April 2016). Do Age Related Changes Exist Between The Level Of Velopharyngeal Closure And The Cervical Spine? *73rd Annual Meeting of the American Cleft Palate-Craniofacial Association*, Atlanta, GA.

Graham Schenck, Jamie L. Perry, and **Xiangming Fang** (April 2016). Utilization Of Velopharyngeal Muscle Morphology For Advanced Treatment Of Submucous Cleft Palate. *73rd Annual Meeting of the American Cleft Palate-Craniofacial Association*, Atlanta, GA.

Sadeem Ali, **Xiangming Fang**, Pankaj Jawa, and Tejas Desai (November 2015). Quantifying the Gender Reimbursement Gap in Nephrology. *American Society of Nephrology (ASN) Kidney Week 2015 Annual Meeting*, San Diego, CA.

Graham Schenck, Jamie L. Perry, and **Xiangming Fang** (November 2015). Examination of the Velopharyngeal Musculature in Submucous Cleft Palate: Clinical Implications for Advanced Treatment. *2015 American Speech–Language–Hearing Association Convention*, Denver, CO.

Lakshmi Kollara, Jamie L. Perry, and **Xiangming Fang** (November 2015). 22q11.2 Deletion Syndrome: A Single Case Study Investigation Using MRI. *2015 American Speech–Language–Hearing Association Convention*, Denver, CO.

Lakshmi Kollara, Jamie L. Perry, and **Xiangming Fang** (April 2015). Extravelar and intravelar morphology of the levator veli palatini: Implications for cleft palate speech. *The 72nd Annual Meeting of the American Cleft Palate-Craniofacial Association*, Palm Springs, CA.

Pooja Krish Purswani, George T. Hardison, **Xiangming Fang**, and Suzanne Lazorick (April 2015). Effect of the MATCH Intervention for Obesity in 7th Grade on Stage of Change for Lifestyle Behaviors. *2015 Pediatric Academic Societies Annual Meeting*, San Diego, CA.

Kaushal Shah, Paul Cook, Tae Lee, John Christie, **Xiangming Fang**, and Muhammad Ashraf (April 2015). Is Nursing Home Specific Antibioqram Necessary For All Nursing Homes? *2015 Yash P. Kataria Research Day*, Greenville, NC.

- Siobhán O’Keefe, **Xiangming Fang**, Nathan Brinn, Mary Catherine Turner, and Dale Newton (March 2015). Moving The Needle On Our MedPeds Board Pass Rate – Second Phase. *MPPDA National Meeting*, Orlando, FL.
- Linda May, Diana Strickland, Edward Newton, Amy Gross-McMillan, Dennis Biko, and **Xiangming Fang** (March 2015). Influence of Prenatal Exercise on fetal/infant health. *FASEB Conference*, Boston, MA.
- Kaushal Shah, Paul Cook, Tae Lee, Muhammad Ashraf, John Christie, and **Xiangming Fang** (October 2014). Is Nursing Home Specific Antibiogram Necessary For All Nursing Homes? *IDWeek*, Philadelphia, PA.
- Dale Zimmerman and **Xiangming Fang** (June 2014). Estimating spatial variation in disease risk from incompletely geocoded data. *Third Joint Biostatistics Symposium*, Chengdu, China.
- Suzanne Lazorick, **Xiangming Fang**, Yancey Crawford, and George T. Hardison (May 2014). Decreased Cardiometabolic Risk after 4 Years in Overweight Adolescents in the MATCH Intervention Compared to Control. *Pediatric Academic Societies and Asian Society for Pediatric Research Joint Meeting*, Vancouver, Canada.
- Suzanne Lazorick, **Xiangming Fang**, Yancey Crawford, George T. Hardison, Alexis Barnett, and Lauren Needell (May 2014). Lifestyle Behavior Changes after 4 Years in Adolescents in the MATCH Intervention Compared to Control. *Pediatric Academic Societies and Asian Society for Pediatric Research Joint Meeting*, Vancouver, Canada.
- Min Kim, Stephen Leierer, Steven Sligar, Paul Toriello, and **Xiangming Fang** (February 2014). Effectiveness of substance abuse intensive outpatient program based on vocational counseling services on consumers’ issues. *The 10th Annual Jean Mills Health Symposium*, Greenville, NC.
- Suzanne Lazorick, Yancey Crawford, Lauren Needell, and **Xiangming Fang** (November 2013). Participants in the MATCH wellness intervention demonstrate improved weight status after 4 years. *The 31st Annual Scientific Meeting of The Obesity Society*, Atlanta, GA.
- Suzanne Lazorick, Alexis Barnett, Lauren Needell, Yancey Crawford, and **Xiangming Fang** (November 2013). Ten years after State Board of Education policy requirement: North Carolina middle school principal and school district representative views on providing daily physical activity in school. *The 31st Annual Scientific Meeting of The Obesity Society*, Atlanta, GA.
- Ellen Crowell Poland, Deborah Culbertson, **Xiangming Fang**, Sharon Rutledge, Gregg Givens, and Kathleen Treole Cox (November 2013). Hearing Aids in Older Adults: Audibility, Outcomes, Status, Characteristics, & Skills. *ASHA Annual Convention*, Chicago, IL.
- Ellen Crowell Poland, Deborah Culbertson, **Xiangming Fang**, Sharon Rutledge, Gregg Givens, and Kathleen Treole Cox (September 2013). Hearing Aid Outcomes in Community-Dwelling Seniors. *NCSHLA 2013 Fall Conference*, Wilmington, NC.

- Xiangming Fang** and Kung-Sik Chan (July 2013). Additive models for spatio-temporal data. *IMS-China International Conference on Statistics and Probability*, Chengdu, Sichuan, China.
- Danielle Jordan, George T. Hardison, Yancey Crawford, **Xiangming Fang**, and Suzanne Lazorick (May 2013). Effect of Including Structured Daily Physical Activity on BMI and Fitness Outcomes of MATCH – A Middle School-Based Intervention for Obesity. *2013 Pediatric Academic Societies Annual Meeting*, Washington DC.
- Ramzy Rimawi, Mark Mazer, Ruba Sarsour, Badih Kabchi, Ari Frenkel, Dawd Siraj, Michael Gooch, **Xiangming Fang**, and Paul Cook (May 2013). The Impact Of Daily Collaboration Between Critical Care And Infectious Disease Specialists On Adherence To Guidelines And Antibiotic Use In The Medical Intensive Care Unit. *2013 American Thoracic Society International Conference*, Philadelphia, PA.
- Ramzy Rimawi, Mark Mazer, Ruba Sarsour, Badih Kabchi, Ari Frenkel, Dawd Siraj, Michael Gooch, **Xiangming Fang**, and Paul Cook (April 2013). Impact of Regular Collaboration between Infectious Disease and Critical Care on Antimicrobial Utilization and Patient Outcome. *Yash Kataria Research Day 2013*, Greenville, NC.
- Lauren Needell, Yancey Crawford, Suzanne Lazorick, George T. Hardison, and **Xiangming Fang** (March 2013). Expansion of Motivating Adolescents with Technology to Choose Health (MATCH) to fifteen schools in tier 1 counties: Program success and expansion challenges. *The 9th Annual Jean Mills Health Symposium*, Greenville, NC.
- Danielle Jordan, George T. Hardison, Yancey Crawford, **Xiangming Fang**, and Suzanne Lazorick (November 2012). Effect of Including Structured Daily Physical Activity on BMI and Fitness Outcomes of MATCH – A Middle School-Based Intervention for Obesity. *2012 ECU Healthy Weight Summit*, Greenville, NC.
- Danielle Jordan, George T. Hardison, Yancey Crawford, **Xiangming Fang**, and Suzanne Lazorick (November 2012). Effect of Including Structured Daily Physical Activity on BMI and Fitness Outcomes of MATCH – A Middle School-Based Intervention for Obesity. *AMA Meeting*, Hawaii.
- Suzanne Lazorick, George T. Hardison, **Xiangming Fang**, Yancey Crawford, Vee Burr, and Valeria Moore (September 2012). Long term BMI results from Motivating Adolescents with Technology to Choose Health (MATCH) and associated current health behaviors. *The Obesity Society Annual Meeting 2012*, San Antonio, TX.
- Xiangming Fang** and Kung-Sik Chan (July 2012). Modeling spatio-temporal data with additive models. *Joint Statistical Meeting*, San Diego, CA.
- Xiangming Fang** and Kung-Sik Chan (June 2012). Additive models with spatio-temporal data. *SRCOS 2012 Summer Research Conference*, Jekyll Island, GA.
- Suzanne Lazorick, George T Hardison, **Xiangming Fang**, Yancey Crawford, Veronica Burr and Valeria Moore (April 2012). Expansion of the MATCH intervention for obesity to 7 middle schools in rural NC. *2012 Pediatric Academic Societies' Annual Meeting*, Boston, MA.

- Prutha Patel, John W. Norbury, and **Xiangming Fang** (March 2012). Sonographic Findings of the Ulnar Nerve at the Elbow with Different Degrees of Elbow Flexion. *2012 Association of Academic Physiatrists Annual Meeting*, Las Vegas, NV.
- Suzanne Lazorick, George T Hardison, **Xiangming Fang**, Yancey Crawford, Valeria Moore, and Veronica Burr (December 2011). Motivating Adolescents with Technology to Choose Health (MATCH) - A promising educational model for obesity in 7th graders. *American College of Sports Medicine Conference on Physical Activity, Cognitive Abilities and Academic Achievement*, Washington DC.
- Amit S. Kelkar, Monica Hough, Kathleen T.Cox, and **Xiangming Fang** (November 2011). A Cross-Cultural Study of Cognition & Executive Functioning System. *The 2011 American Speech-Language-Hearing Association (ASHA) Convention*, San Diego, CA.
- Muhammad S. Ashraf, Vickie Kinzie, Naureen Sheikh, Kathy Cochran, **Xiangming Fang**, Clinton Faulk, Keith Ramsey (October 2011). Does early foley catheter removal lead to higher re-catheterization rate in patients at a Rehabilitation (Rehab) Center? *The 49th Annual Meeting of the Infectious Diseases Society of America (IDSA)*, Boston, MA.
- Gus Jonathan Lewis, **Xiangming Fang**, Michael Gooch, and Paul Cook (October 2011). Decreased resistance of *Pseudomonas aeruginosa* with restriction of ciprofloxacin in a large teaching hospital's intensive and intermediate care units. *The 49th Annual Meeting of the Infectious Diseases Society of America (IDSA)*, Boston, MA.
- Dale Zimmerman and **Xiangming Fang** (August 2011). Estimating spatial variation in disease risk from locations coarsened by incomplete geocoding. *Joint Statistical Meeting*, Miami, FL.
- Wesley O'Neal, Matthew Winters, Kerri Augustino, **Xiangming Fang**, and Paul Cook (April 2011). Detection of Latent Tuberculosis Infection in HIV: Comparison of the Tuberculin Skin Test to an Interferon-Gamma Release Assay. *American College of Physicians (ACP) annual meeting Internal Medicine 2011*, San Diego, CA.
- Muhammad Ashraf, Vicki Kinzie, Kathy Cochran, **Xiangming Fang**, Clinton Faulk, and Keith Ramsey (April 2011). Impact of an Action Plan to Reduce Catheter Associated Urinary Tract Infections (CAUTI) at a Rehabilitation (Rehab) Facility. *The Society for Healthcare Epidemiology of America (SHEA) Annual Scientific Meeting*, Dallas, TX.
- Dale Zimmerman and **Xiangming Fang** (December 2010). Estimating spatial variation in disease risk from locations coarsened by incomplete geocoding. *The Eighth International Chinese Statistical Association (ICSA) International Conference: Frontiers of Interdisciplinary and Methodological Statistical Research*, Guangzhou, Guangdong, China.
- Xiangming Fang** and Kung-Sik Chan (July 2010). Additive models with spatio-temporal data. *The Thirteenth Meeting of New Researchers in Statistics and Probability*, Vancouver, BC, Canada.
- Xiangming Fang** and Kung-Sik Chan (August 2010). Additive models with spatio-temporal data. *Joint Statistical Meeting*, Vancouver, BC, Canada.
- Xiangming Fang** and Kung-Sik Chan (March 2010). Additive models with spatio-temporal data. *ENAR Spring Meeting*, New Orleans, LA.

Xiangming Fang and Kung-Sik Chan (August 2009). Generalized additive models with spatio-temporal data. *Joint Statistical Meeting*, Washington, DC.

Keela Herr, Marita Titler, Perry Fine, Chris Forcucci, Patricia McNichol, Kimberly Bergen, Jimmy Reyes, Melissa Lehan Mackin, **Xiangming Fang**, Sara Sanders, John Swegle (November 2007). The current state of pain management practices for older adults with cancer in hospices. *Sigma Theta Tau International's 39th Biennial Convention*, Baltimore, Maryland.

RESEARCH GRANTS

Ongoing Research Grants

Janssen Scientific Affairs, LLC Cook (PI) 03/03/23 – 10/11/23
microRNAs in HIV and Obesity

The goal of this study is to determine Effect of darunavir/cobicistat/emtricitabine/tenofovir alafenamide and bictegravir/emtricitabine/tenofovir alafenamide on the circulatory microRNA profile in treatment naive HIV patients, and its correlation with change in body weight.

Role: Co-Investigator

National Institutes of Health (NIH 1R01DK129480-01A1) May (PI) 05/15/22 – 04/31/27
Effect of exercise modality during pregnancy on childhood obesity risk

The goal of this study is to determine 1) the influence of different exercise modes during OW/OB pregnancy on infant cardiometabolic health and growth trajectories; and 2) the most effective exercise mode in OW/OB pregnancy on improving maternal cardiometabolic health outcomes.

Role: Co-Investigator

NC Department of Health and Human Service Lazorick (PI) 10/01/18 – 09/30/23
SNAP-Ed MATCH

The goal of this study is to expand the Motivating Adolescents with Technology to CHOOSE Health (MATCH) program in 7th graders to greater number of schools and evaluate changes in participant behavior knowledge and body mass index.

Role: Co-Investigator

Completed Research Grants

American Heart Association May (PI) 09/01/18 – 08/31/20
Influence of maternal exercise on Infant skeletal muscle and metabolomics

The goal of this study is to determine 1) the ability of regular maternal exercise to imprint key myocellular metabolic (insulin sensitivity) properties of offspring mesenchymal stem cells (MSC), neuromotor function, and morphometry; and 2) the distinct abilities of regular maternal exercise to imprint the metabolome of offspring MSC.

Role: Co-Investigator

Blue Cross Blue Shield of NC Foundation Lazorick (PI) 07/01/15 – 01/31/20
MATCH Growth and Capacity Building

The goal of this study is to build capacity for future multi-state and largescale dissemination of the MATCH program and further develop the technology supports of the program delivery, training, resources and data management system that are proving critical for consistent implementation and fidelity.

Role: Co-Investigator

Agency for Healthcare Research and Quality Charles (PI) 09/01/17 – 08/31/19
Speech Telerehabilitation after Stroke: Proof of Concept and Feasibility

The goal of this study is to evaluate the feasibility, acceptability, credibility and satisfaction of using a telerehabilitation approach in rural eastern NC to treat aphasia among stroke survivors.

Role: Investigator

ECU Interdisciplinary Research Award Babatunde (PI) 07/01/17 – 06/30/18
Racial-ethnic differences in stroke outcomes- Is the disparities justified?

The goal of this study is to examine 1) the relationship between utilization of nutrition services, dietary behavior and overall nutrition literacy, and nutrition supplements and stroke-related disability, and 2) the relationship between dietary behavior, nutrition literacy and secondary stroke prevention and comorbid disease management (diabetes, lipids and hypertension), and to determine if the relationships differ across racial-ethnic groups.

Role: Co-Investigator

NC Department of Health and Human Service Lazorick (PI) 10/01/15 – 09/30/18
SNAP-Ed MATCH Expansion 2015-2018.

The goal of this study is to expand the Motivating Adolescents with Technology to CHOOSE Health (MATCH) program in 7th graders to greater number of schools and evaluate changes in participant behavior knowledge and body mass index.

Role: Co-Investigator

American Heart Association May (PI) 07/01/15 – 06/30/17
ENHANCED by Mom (Enhanced Neonatal Health And Neonatal Cardiovascular Efficiency Developmentally by Mom)

The goal of this study is to determine if exercise protocols for pregnant women can improve cardiometabolic health in offspring.

Role: Statistician

American Heart Association Swift (PI) 07/01/13 – 06/30/17
The Intervention Composed of Aerobic Training and Non-Exercise Physical Activity.

The goal of this study is to investigate the effects of aerobic exercise training and increasing physical activity outside of structured exercise training sessions on waist circumference, weight, and other cardiovascular disease risk factors in a prospective pilot trial.

Role: Co-Investigator

Cleft Palate Foundation Perry (PI) 07/01/15 – 06/30/16
Velopharyngeal Muscle Morphology in Children with Congenital Palatal Microforms.

The goal of this study is to identify quantitative and qualitative differences in the levator muscle, the musculus uvulae, and velar measures between children aged 3-6 years with symptomatic palatal microforms and typically developing children with normal VP anatomy.

Role: Co-Investigator

Blue Cross Blue Shield of NC Foundation Lazorick (PI) 07/01/14 – 06/30/15
Planning and Infrastructure for MATCH Expansion.

The goal of this study is to develop infrastructure and plan for a large-scale expansion of the Motivating Adolescents with Technology to CHOOSE Health (MATCH) intervention in 7th graders. Infrastructure to be developed include: data management and teacher resource-system programming and design and development of web-based training resources.

Role: Co-Investigator

National Institute of Justice Oliver (PI) 01/01/13 – 12/31/14
The Interpretation of Patterned Injuries in Medicolegal Death Investigation.

The goal of this study is to develop 1) a quantitative error measure for patterned injury interpretation at the population level for forensic pathologists; 2) a quantitative measure of the usefulness of image processing methods on the detection and interpretation of patterned injury of the skin; 3) a quantitative measure of the accuracy and precision of postmortem injury measurement, and recommended protocols for increasing both.

Role: Investigator

Kate B Reynolds Charitable Trust Lazorick (PI) 01/01/12 – 12/31/14
2012-2015 MATCH Expansion.

The goal of this study is to expand the MATCH (Motivating Adolescents with Technology to Choose Health) program and further investigate its effect on childhood obesity among 7th grade students.

Role: Investigator

ECU Engagement and Outreach Scholars Academy Lazorick (PI) 01/01/13 – 06/30/13
Improving implementation of the middle school physical activity component of the NC Healthy Active Children Policy.

The goal of this study is to better understand and inform the NC State Board of Education about effects and provision of daily physical activity for students in grades 6-8.

Role: Statistician

Robert Wood Johnson Foundation Lazorick (PI) 07/01/09 – 09/30/12
MATCH Learning to Lifestyle: School-Based Wellness Intervention for Obesity.

The goal of this study is to determine if the MATCH (Motivating Adolescents with Technology to Choose Health) intervention has a healthy effect on student body composition as measured by Body Mass Index.

Role: Investigator

Blue Cross Blue Shield of NC Foundation Lazorick (PI) 11/16/10 – 04/03/12
MATCH Anniversary Grant.

The goal of this study is to expand, develop and evaluate the Motivating Adolescents through Technology to Choose Health (MATCH) program into 5 schools with 2 control schools.

Role: Co-investigator

National Cancer Institute RO1 CA115363-01 Herr (PI) 09/09/05 – 06/30/10
Cancer Pain in Elders: Promoting EBP in Hospices.

The goal of this study was to evaluate the effect of an interdisciplinary multifaceted translation of research into practice (TRIP) intervention focused on increasing evidence-based practices (EBPs) for assessing and managing pain in elders with cancer in hospices.

Role: Statistician (7/01/06 – 5/31/07)

COURSES TAUGHT

BIOS 1500 Introduction to Biostatistics (Spring 2010, Spring 2012, Spring 2013, Fall 2013, Fall 2014)

BIOS 7021 Biostatistics for Health Professionals I (Spring 2009, Fall 2010, Spring 2016, Spring 2017, Spring 2018, Spring 2019, Spring 2020, Spring 2021, Spring 2022, Spring 2023)

BIOS 7501 Experimental Design (Fall 2009, Spring 2011, Spring 2014)

BIOS 7550 Applied Multivariate Analysis (Fall 2011)

PUBH 8025 Quantitative Research Methods (Spring 2022, Spring 2023)

Workshops Taught

Introduction of SAS (Summer 2017)

Introduction of R (Summer 2015, Summer 2016)

Introduction of JMP (Summer 2014, Summer 2015, Summer 2016, Summer 2017, Summer 2018)

Factor, Cluster, and Discriminant Analysis (Summer 2013, Summer 2016)

Data Description in SAS (Spring 2013, Spring 2014)

An Overview of Statistical Methods for Comparisons (Summer 2011, Spring 2012, Fall 2012, Fall 2013, Spring 2015, Spring 2017, Spring 2023)

Analysis of Repeated Measures Data (Summer 2010, Summer 2011, Summer 2012)

Simple and Multiple Regression Models (Summer 2012)

Statistical Modeling Using SAS (Spring 2011, Spring 2012)

Interrupted Time Series Analysis (Fall 2010)

Spatial Data Analysis (Summer 2010)

Multivariate Analysis of Variance (Summer 2009)

Repeated Measures and Linear Mixed Models (Summer 2009)

MATLAB Basics (Fall 2009)

Repeated Measures and Advanced Topics in SAS (Spring 2009)

CONSULTING SERVICE

Providing statistical consulting service to faculty members at East Carolina University
(August 2008 – Present)

COMMITTEE SERVICE

University Committees

Teaching Grants Committee (2015 – 2018)

Distance Education and Learning Technology Committee (2012 – 2015)

International Faculty and Staff Committee (2010 – 2012)

College of Allied Health Sciences Committees

Honors and Awards Committee (2020 – 2022)

CAHS Faculty Council (2014 – 2017)

Student/Faculty Committee (2013 – 2016)

Diversity Committee (2011 – 2014)

Research & Scholarly Activity Committee (2009 – 2012)

Search Committees

Data Science Faculty Search Committee (2018 – 2019)

CAHS Associate Dean for Research Search Committee (2012 – 2013)

Thesis/Dissertation Committees

Doctoral Dissertation Committees

Elizabeth Abioro (Public Health, Advisors: Lok Pokhrel and Gregory Kearney, 2022 – Present)

Eshan Schleif (Communication Sciences and Disorders, Advisor: Jamie Perry, 2019 – 2022)

Christopher Anderson (Biology, Advisor: Jeffrey McKinnon, 2017 – 2022)

Abigail Haenssler (Communication Sciences and Disorders, Advisor: Jamie Perry, 2018 – 2021)

Katelyn Kotlarek (Communication Sciences and Disorders, Advisor: Jamie Perry, 2017 – 2019)

Kazlin Mason (Communication Sciences and Disorders, Advisor: Jamie Perry, 2016 – 2017)

Kesha TaNara Lee (Educational Leadership, Advisor: Crystal Chambers, 2015 – 2017)

Rochelle Newton (Educational Leadership, Advisor: Crystal Chambers, 2015 – 2016)

Lakshmi Kollara (Communication Sciences and Disorders, Advisor: Jamie Perry, 2015 – 2016)

Graham Schenck (Communication Sciences and Disorders, Advisor: Jamie Perry, 2014 – 2016)

Lengxob Young (Biology, Advisor: Jeffrey McKinnon, 2009 – 2015)
Dan Wolstein (Rehabilitation Counseling and Administration, Advisor: Paul Toriello,
2012 – 2014)
Amit S. Kelkar (Communication Sciences and Disorders, Advisor: Heather Wright,
2012 – 2014)
Min Kim (Rehabilitation Counseling and Administration, Advisor: Stephen Leierer,
2012 – 2013)
Ellen Poland (Communication Sciences and Disorders, Advisor: Deb Culbertson,
2012 – 2013)
Jessica Pierce (Communication Sciences and Disorders, Advisor: Sherri Jones,
2011 – 2012)

Master Thesis Committees

Ellen Cahoon (Occupational Therapy, Advisor: Anne Dickerson, 2023 – Present)
Zoey Bezanson (Occupational Therapy, Advisor: Heather Panczykowski, 2023 – Present)
Heidi Kreis (Occupational Therapy, Advisor: Lynne Murphy, 2022 – Present)
Charlotte Pete (Occupational Therapy, Advisor: Young Kim, 2022 – Present)
Haley Poythress (Occupational Therapy, Advisor: Anne Dickerson, 2021 – 2022)
Emily Mitchum (Occupational Therapy, Advisor: Anne Dickerson, 2021 – 2022)
Carley Overman (Occupational Therapy, Advisor: Young Kim, 2020 – 2021)
Tara Baran (Occupational Therapy, Advisor: Anne Dickerson, 2018 – 2020)
Morgan Rogers (Occupational Therapy, Advisor: Young Kim, 2018 – 2019)
Mary-Grace Kelly (Occupational Therapy, Advisor: Anne Dickerson, 2018 – 2019)
Sydney Branson (Occupational Therapy, Advisor: Denise Donica, 2017 – 2018)
Chandler Coleman (Occupational Therapy, Advisor: Anne Dickerson, 2017 – 2018)
Brittany Goehmann (Occupational Therapy, Advisor: Anne Dickerson, 2017 – 2018)
Rachel Gartz (Occupational Therapy, Advisor: Anne Dickerson, 2017 – 2018)
Eshan Pua (Communication Sciences and Disorders, Advisor: Jamie Perry, 2017)
Zach Harrison (Biology, Advisor: Jeffrey McKinnon, 2015 – 2017)
Holly Jordan (Communication Sciences and Disorders, Advisor: Jamie Perry, 2014 – 2016)
Morgan Kain (Biology, Advisor: Michael McCoy, 2014 – 2015)
Amanda Clauser (Biology, Advisor: Sue McRae, 2013 – 2015)
Miho Yoshioka (Biology, Advisor: Kyle Summers, 2013 – 2015)
Jillian Nyswonger (Communication Sciences and Disorders, Advisor: Jamie Perry, 2014 –
2015)
John Schweichler (Child Development & Family Relations, Advisor: Bryce Jorgensen,
2012 – 2013)
Maddison Greaves (Nutrition, Advisor: Brenda Bertrand, 2011 – 2013)
Adam Stuckert (Biology, Advisor: Kyle Summers, 2010 – 2012)

James Tumulty (Biology, Advisor: Kyle Summers, 2010 – 2012)

Molly Albecker (Biology, Advisor: Heather Vance Chalcraft, 2010 – 2011)

Professional Paper Content Advisor

Kristie Hicks (Public Health, Advisor: Stephanie Pitts, 2016 – 2017)

Clifford Long (Public Health, Advisor: Ann Rafferty, 2016 – 2017)

Ololade Daodu (Public Health, Advisor: Stephanie Pitts, 2016 – 2017)

PROFESSIONAL SERVICE

Conference Board Member

Advisory Board member for The 10th Annual Jean Mills Health Symposium (2013 – 2014)

Conference Chair

Session Chair for The 8th Annual Jean Mills Health Symposium (Greenville, NC, February 2012)

Session Chair for The Thirteenth Meeting of New Researchers in Statistics and Probability (Vancouver, BC, Canada, July 2010)

Session Chair for ENAR Spring Meeting (New Orleans, LA, March 2010)

Journal Editorial Board Member

Journal of Biometrics & Biostatistics (2016 – Present)

Austin Biometrics and Biostatistics (2014 – Present)

Annals of Biometrics & Biostatistics (2013 – Present)

Journal Reviewer

Journal of Agricultural, Biological, and Environmental Statistics

Journal of Statistical Theory and Practice

Pediatrics

The Cleft Palate-Craniofacial Journal

International Journal of Health Geographics

Medical Research Methodology

PLOS ONE

Journal of Nutrition and Health

Journal of Homosexuality

Child Maltreatment

Aquatic Biology

Journal of Public Health Management & Practice

Journal of Pediatric Rehabilitation Medicine

Grant Reviewer

Reviewed one grant proposal for NSF (Methodology, Measurement, and Statistics Program) (2020)

Reviewed one grant proposal for ANR (French National Research Agency) (2015)

Reviewed eight grant proposals for NIH (2009)

Book Reviewer

Reviewed the 2nd edition of *Biostatistics for the Biological and Life Sciences* for Pearson Education (2015 – 2016)

Protocol and Software Reviewer

Reviewed one software package with user's guide and supporting methodological documents for Environmental Management Support, Inc which was contracted with US Environmental Protection Agency in Washington (2010)

PROFESSIONAL MEMBERSHIPS

American Statistical Association (ASA) (2008 – Present)

Institute of Mathematical Statistics (IMS) (2006 – Present)

International Biometric Society – Eastern North American Region (ENAR) (2009 – 2014)

International Chinese Statistical Association (ICSA) (2009 – 2014)

PROFESSIONAL DEVELOPMENT

Research-Related Conferences

2019 Joint Statistical Meeting	Denver, CO
2018 Joint Statistical Meeting	Vancouver, Canada
2017 Joint Statistical Meeting	Baltimore, MD
2015 SAMSI Workshop on Statistical and Computational Challenges in Omics Data Integration	Research Triangle Park, NC
2014 SAMSI Ecology Opening Workshop	Research Triangle Park, NC
2014 The Third Joint Biostatistics Symposium	Chengdu, China
2014 WNAR/IMS Conference	Honolulu, HI

2014	The 10th Annual Jean Mills Health Symposium	Greenville, NC
2013	IMS-China International Conference on Statistics and Probability	Chengdu, China
2013	United States Conference On Teaching Statistics	Cary, NC
2013	SAMSI Workshop on Environmental Statistics	Research Triangle Park, NC
2013	The 9th Annual Jean Mills Health Symposium	Greenville, NC
2012	SAMSI Workshop: Data-Driven Decision in Healthcare	Research Triangle Park, NC
2012	Joint Statistical Meeting	San Diego, CA
2012	SRCOS 2012 Summer Research Conference	Jekyll Island, GA
2012	The 8th Annual Jean Mills Health Symposium	Greenville, NC
2011	SAMSI Geosciences Applications Opening Workshop	Research Triangle Park, NC
2011	Joint Statistical Meeting (JSM)	Miami, FL
2011	United States Conference On Teaching Statistics	Cary, NC
2011	IISA Conference on Probability, Statistics, and Data Analysis	Raleigh, NC
2011	First Qualitative Research Symposium	Greenville, NC
2011	The 7th Annual Jean Mills Health Symposium	Greenville, NC
2010	The Eighth ICSA International Conference	Guangzhou, China
2010	Joint Statistical Meeting	Vancouver, Canada
2010	The 13 th Meeting of New Researchers in Statistics and Probability	Vancouver, Canada
2010	ENAR Meeting	New Orleans, LA
2009	Joint Statistical Meeting	Washington, DC
2009	ENAR Meeting	San Antonio, TX

Professional Seminars/Workshops

2019	JSM Short Course: Functional Data Analysis for Wearables: Methods and Applications	Denver, CO
2018	JSM Short Course: Introduction to the Design of Cluster Randomized Trials	Vancouver, Canada
2017	JSM Short Course: Propensity Score Methods and Their Applications in Observational Studies	Baltimore, MD
2017	Employee Best Practices in Information Security	Greenville, NC
2016	CITI Human Research Refresher Course	Greenville, NC
2014	Third Joint Biostatistics Symposium Short Course: Survival Analysis in Medicine and Public Health	Chengdu, China

2014 Third Joint Biostatistics Symposium Short Course: Some New Study Designs in Medicine and Public Health	Chengdu, China
2014 WNAR Short Course: Introduction to Large-Scale Genetic Association Studies	Honolulu, HI
2013 CITI Human Research Refresher Course	Greenville, NC
2013 NSF Grant Writing Workshop	Cary, NC
2013 Tenure and Promotion Workshop	Greenville, NC
2012 Blackboard EPA Search Committee Training	Greenville, NC
2012 JSM Short Course: Generalized Additive Models And Their Extensions: The Penalized Regression Spline Approach	San Diego, CA
2012 Tenure and Promotion Workshop	Greenville, NC
2011 Preparing a Personal Action Dossier Workshop	Greenville, NC
2011 JSM Short Course: Bayesian Inference	Miami, FL
2011 USCOTS Workshop: Computationally Intensive Methods in Teaching Introductory Statistics	Cary, NC
2010 JSM Short Course: Antedependence Models	Vancouver, Canada
2010 CITI Basic Course for Human Subject Protection	Greenville, NC
2010 Peer Classroom Observation Training Workshop	Greenville, NC
2009 ENAR Workshop for Junior Researchers	San Antonio, TX
2009 2009 NISS/ASA Writing Workshop for Junior Researchers	Washington, DC
2009 Preparing a Personal Action Dossier Workshop	Greenville, NC
2008 Tenure and Promotion Workshop	Greenville, NC

Distance Education (DE) Professional Development

2023 OFE Workshop: Canvas Connections: Advanced WebEx Features and Practical Uses	Greenville, NC
2021 OFE Workshop: Improving Your Online Course	Greenville, NC
2021 OFE Workshop: Getting Started with WebEx in Canvas	Greenville, NC
2020 Cornerstone Course: Conveying and Sustaining Caring in Online Classrooms	Greenville, NC
2019 OFE Workshop: WebEx Instruction for Virtual Classroom	Greenville, NC
2017 OFE Workshop: Flipping Your Classroom	Greenville, NC

2016	ITCS Workshop: Online SabaMeeting Virtual Classroom	Greenville, NC
2015	Teaching Online Faculty Interest Group: Thoughts on Teaching in an Online Setting: Instructional Strategies and Ways to Engage Learners	Greenville, NC
2014	Teaching Online Faculty Interest Group: Using the Mediasite Desktop Recorder as a Teaching Tool	Greenville, NC
2013	Teaching Online Faculty Interest Group: My Experience Flipping a Class with Tegrity	Greenville, NC
2013	USCOTS Workshop: Innovation in Online Instruction in Statistics: Engaging and Challenging e-Learners	Cary, NC
2012	Distance Education Faculty Development Modules	Greenville, NC

Technology-Related Training

2011	Text Analytics with SAS Text Miner	Cary, NC
2011	Customer Segmentation with Numeric and Textual Data Using SAS	Cary, NC
2010	MATLAB Technology Tour	Durham, NC
2009	Structural Equation Modeling with AMOS	Greenville, NC
2009	Mathematica 7 in Education and Research	Greenville, NC
2008	SPSS Overview	Greenville, NC

COMPUTER SKILLS

Proficient in R, SAS, SPSS, JMP, Minitab, SPLUS, and MATLAB.

HORNERS AND AWARDS

- Travel Awards from SAMSI Workshop on Statistical and Computational Challenges in Omics Data Integration, Research Triangle Park, NC, February 2015.
- Travel Awards from SAMSI Ecology Opening Workshop, Research Triangle Park, NC, August 2014.
- Travel Awards from NSF Grant Writing Workshop, Cary, NC, May 2013.
- Travel Awards from SAMSI Workshop on Environmental Statistics, Research Triangle Park, NC, March 2013.
- Travel Awards from SAMSI Opening Workshop: Data-Driven Decision in Healthcare, Research Triangle Park, NC, August 2012.

Boyd Harshbarger Travel Awards from SRCOS Summer Research Conference, Jekyll Island, GA, June 2012.

ECU International Travel Fund Award for presentation at JSM in Vancouver, Canada, July 2010.

IMS Travel Award from the 8th New Researchers in Statistics and Probability Conference, Vancouver, Canada, July 2010.

ASA Travel Award from the NISS/ASA Writing Workshop, Washington DC, August 2009.

ENAR Travel Award from the ENAR Young Researchers Workshop, San Antonio, March 2009.