

Daniela Sotres-Alvarez

PERSONAL

Collaborative Studies Coordinating Center (CSCC)
Department of Biostatistics
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EDUCATION

- 2005-2010 University of North Carolina at Chapel Hill, DrPH in Biostatistics**
Gillings School of Global Public Health
Doctoral Dissertation: "Generalized Latent Class Models and Latent Transition Models for Dietary Pattern Analysis"
Research Advisor: Amy H. Herring, ScD
- 2000-2002 University of North Carolina at Chapel Hill, MS in Biostatistics**
Gillings School of Global Public Health
Master's paper: "Are Disabled Women at Increased Risk of Physical Assault? Results from the NC BRFSS (Behavioral Risk Factor Surveillance System)"
Research Advisor: Lawrence L. Kupper, PhD
- 1992-1997 The Autonomous Technological Institute of Mexico (ITAM), BS in Applied Mathematics**
Thesis: "Credit Scoring and Bayesian Techniques for Statistical Classification"
Research Advisor: Manuel Mendoza-Blanco, PhD

PROFESSIONAL AND RESEARCH EXPERIENCE

- Dec 2023 - **Professor**
Collaborative Studies Coordinating Center (CSCC) - Department of Biostatistics,
Gillings School of Global Public Health, UNC Chapel Hill
- Mar 2021 - **Associate Director for Population Health Research**
Collaborative Studies Coordinating Center (CSCC) - Department of Biostatistics,
Gillings School of Global Public Health, UNC Chapel Hill
- July 2018 - Nov 2023 **Associate Professor**
Collaborative Studies Coordinating Center (CSCC) - Department of Biostatistics,
Gillings School of Global Public Health, UNC Chapel Hill
- Aug 2010 - June 2018 **Assistant Professor**
Collaborative Studies Coordinating Center (CSCC) - Department of Biostatistics,
Gillings School of Global Public Health, UNC Chapel Hill
- Mar 2010 - Jul 2010 **Postdoc Research Associate**
Professor Amy H Herring, ScD
Department of Biostatistics, UNC Chapel Hill

Aug 2007 - Dec 2009	Graduate Research Assistant Professor Kelly Evenson, PhD Department of Epidemiology, University of North Carolina at Chapel Hill
Aug 2005 – Jul 2007	Graduate Research Assistant Alumni Distinguished Professor Lawrence L. Kupper, PhD Department of Biostatistics, University of North Carolina at Chapel Hill
Sept 2002 – Jul 2005	Biostatistician <i>Center for Research on Nutrition and Health</i> Mexican National Institute of Public Health (INSP) Cuernavaca, Morelos, México
Jun 2001 – Jul 2002	Graduate Research Assistant Professor Gary Koch, PhD Biometric Consulting Laboratory (BCL) Department of Biostatistics, University of North Carolina at Chapel Hill
Aug 1998 – Jul 2000	Statistician PROGRESA (Education, Health, and Nutrition Program), Ministry of Social Security Mexico City, México
Jun 1997 – Jul 1998	Statistician Bank Bital (currently HSBC) Mexico City, México

HONORS AND AWARDS

2022- 2026	NHLBI Observational Study Monitoring Board (OSMB) for the Lung Health Cohort (LHC), Member
2018-2020	Eastern North American Region International Biometric Society, Regional Advisory Board Member
2005-2009	Scholarship for DrPH in Biostatistics awarded by CONACYT (Mexican National Council for Science and Technology)
2007	One of 20 students selected to participate at the 3 rd Summer Institute in Reproductive and Perinatal Epidemiology, 2007 organized by the National Institute of Child Health & Human Development (NICHD) and Institute of Human Development, Child, and Youth Health (IHDCYH).
2006	Special Commendation on Preliminary Doctoral Written Exam, University of North Carolina at Chapel Hill
2001	Delta Omega Honorary Society in Public Health, UNC student inductee

- 2000-2002 Scholarship for MS in Biostatistics awarded by CONACYT (Mexican National Council for Science and Technology)
- 1997 Honorific Mention on bachelor's thesis, ITAM, Mexico

BIBLIOGRAPHY (Over 175 peer-reviewed articles)

*Student

Refereed journal articles: <https://www.ncbi.nlm.nih.gov/myncbi/Daniela.Sotres-Alvarez>

Research: <http://www.researchgate.net/profile/Daniela.Sotres-Alvarez>

Citations (Google scholar): <https://scholar.google.com/Daniela.Sotres-Alvarez>

1. Savin KL, Carlson JA, Patel SR, Jankowska MM, Allison MA, **Sotres-Alvarez D**, Sallis JF, Talavera GA, Roesch SC, Malcarne VL, Larsen B, Rutledge T, Gallo LC. Social and Built Neighborhood Environments and Sleep Health: The Hispanic Community Health Study/Study of Latinos Community and Surrounding Areas (SOL CASAS) and Sueño Ancillary Studies. *Sleep*. 2023 Oct 3:zsad260. doi: 10.1093/sleep/zsad260. Epub ahead of print. PMID: 37788570.
2. Pichardo MS, Pichardo CM, Talavera GA, Gallo LC, Kuo CC, Castañeda SF, Chambers EC, Daviglus ML, Pirzada A, Perreira KM, **Sotres-Alvarez D**, Peña Ortiz TY, Plascak JJ. Change in Neighborhood Socioeconomic Status and Adherence to the Cancer Prevention Lifestyle Guidelines in Hispanic/Latino Adults: Results from the HCHS/SOL Study. *Cancer Res Commun*. 2023 Oct 2;3(10):1981-1991. doi: 10.1158/2767-9764.CRC-23-0187. PMID: 37783658; PMCID: PMC10542571.
3. Carlson JA, Hibbing PR, Forseth B, Diaz KM, **Sotres-Alvarez D**, Bejarano CM, Duran AT, Castañeda SF, Garcia ML, Perreira KM, Daviglus ML, Van Horn L, Gellman MD, Isasi CR, Cai J, Delamater AM, Staggs VS, Thyfault J, Gallo LC. Sedentary Bout Patterns and Metabolic Health in the Hispanic Community Health Study/Study of Latino Youth (SOL Youth). *J Am Heart Assoc*. 2023 Sep 19;12(18):e028495. doi: 10.1161/JAHA.122.028495. Epub 2023 Sep 8. PMID: 37681558; PMCID: PMC10547284.
4. Zimmerman ME, Hart LJ, Medrano P, Piccone C, Ramirez DM, Huggins LKL, **Sotres-Alvarez D**, Fish LJ, Østbye T, Holliday KM. COVID-19 in the Community: Changes to Women's Mental Health, Financial Security, and Physical Activity. *AJPM Focus*. 2023 Sep;2(3):100095. doi: 10.1016/j.focus.2023.100095. Epub 2023 Mar 25. PMID: 37234692; PMCID: PMC10039779.
5. Mossavar-Rahmani Y, Lin J, Pan S, Song RJ, Xue X, Spartano NL, Xanthakis V, **Sotres-Alvarez D**, Marquez DX, Daviglus M, Carlson JA, Parada H, Evenson KR, Talavera AC, Gellman M, Perreira KM, Gallo LC, Vasan RS, Kaplan RC. Characterizing longitudinal change in accelerometry-based moderate-to-vigorous physical activity in the Hispanic Community Health Study/Study of Latinos and the Framingham Heart Study. *BMC Public Health*. 2023 Aug 24;23(1):1614. doi: 10.1186/s12889-023-16442-9. PMID: 37620824.

6. Chiu V, Urbanek JK, Wanigatunga AA, Allison MA, Ballew SH, Mossavar-Rahmani Y, **Sotres-Alvarez D**, Gallo LC, Xue X, Talavera GA, Evenson KR, Kaplan RC, Matsushita K, Schrack JA. The Association between Ankle-Brachial Index and Daily Patterns of Physical Activity: Results from the Hispanic Community Health Study/Study of Latinos (HCHS/SOL). *J Gerontol A Biol Sci Med Sci.* 2023 Aug 19:glad200. doi: 10.1093/gerona/glad200. PMID: 37596830.
7. Boe LA, Mossavar-Rahmani Y, **Sotres-Alvarez D**, Daviglus ML, Durazo-Arvizu RA, Thyagarajan B, Kaplan RC, Shaw PA. Nutritional blood concentration biomarkers in the Hispanic Community Health Study/Study of Latinos: Measurement characteristics and power. *Am J Epidemiol.* 2023 Aug 4;192(8):1288-1303. doi: 10.1093/aje/kwad109. PMID: 37116075.
8. Boe LA, Shaw PA, Midthune D, Gustafson P, Kipnis V, Park E, **Sotres-Alvarez D**, Freedman L, Of The Stratos Initiative OBOTMEAMTGT. Issues in Implementing Regression Calibration Analyses. *Am J Epidemiol.* 2023 Am J Epidemiol. 2023 Aug 4;192(8):1288-1303. doi: 10.1093/aje/kwad109. PMID: 37116075
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32. Cordero C, Pulgaron ER, Marchante-Hoffman AN, Llabre MM, Perreira KM, **Sotres-Alvarez D**, Isasi CR, Elder JP, Delamater AM. Body image and disordered eating behaviors in Hispanic/Latino Youth: Findings from the Hispanic Community Health Study/Study of Latino Youth. *Appetite*. 2022 May 14;175:106079. doi: 10.1016/j.appet.2022.106079. PMID: 35577175; PMCID: PMC9879019.
33. Cuthbertson CC, Moore CC, **Sotres-Alvarez D**, Heiss G, Isasi CR, Mossavar- Rahmani Y, Carlson JA, Gallo LC, Llabre MM, Garcia-Bedoya OL, Farelo DG, Evenson KR. Associations of steps per day and step intensity with the risk of diabetes: the Hispanic Community Health Study / Study of Latinos (HCHS/SOL). *Int J Behav Nutr Phys Act*. 2022 Apr 15;19(1):46. doi: 10.1186/s12966-022-01284-2. PMID: 35428253; PMCID: PMC9013106.
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35. Swift SL, Drexler Y, **Sotres-Alvarez D**, Raij L, Llabre MM, Schneiderman N, Horn LV, Lash JP, Mossavar-Rahmani Y, Elfassy T. Associations of sodium and potassium intake with chronic kidney disease in a prospective cohort study: findings from the Hispanic Community Health Study/Study of Latinos, 2008-2017. *BMC Nephrol*. 2022 Apr 6;23(1):133. doi: 10.1186/s12882-022-02754-2. PMID: 35387601; PMCID: PMC8988326.
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179. Brodala N, Merricks EP, Bellinger DA, Damrongsi D, Offenbacher S, Beck J, Madianos P, **Sotres D**, Chang YL, Koch G, Nichols TC. Porphyromonas gingivalis bacteremia induces coronary and aortic atherosclerosis in normocholesterolemic and hypercholesterolemic pigs. *Arterioscler Thromb Vasc Biol.* 2005 Jul;25(7):1446-51. doi: 10.1161/01.ATV.0000167525.69400.9c. Epub 2005 Apr 21. PMID: 15845905.
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Articles accepted

Gianola M, Llabre MM, Gallo LC, Daviglus ML, **Sotres-Alvarez D**, Schneiderman N. Language Preference and its Moderating Role in Coping with Stress: The Hispanic Community Health Study / Study of Latinos. *Accepted at Medical Research Archives.*

Tremblay J, Bello NA, Mesa RA, Schneiderman B, Rundek T, Testai FD; Pirzada A, Daviglus M. Perreira KM, Gallo LC, Penedo F, **Sotres-Alvarez D**, Wassertheil-Smoller S, Elfassy T. Life's Essential 8 and Incident Hypertension among US Hispanic/Latino Adults: Results from the Hispanic Community Health Study/Study of Latinos. *Accepted at JAHA.*

Articles submitted

1. Mesa RA, Damas OM, Schneiderman N, Palacio AM, Gallo LC, Talavera GA, **Sotres-Alvarez D**, Daviglus M, Pirzada A, Llabre MM, Elfassy T. Association between High Sensitivity C-reactive protein and metabolic syndrome among Hispanic/Latino participants of the Hispanic Community Health Study/Study of Latinos (HCHS/SOL). 17 pages.
2. Varela JJ, Mattei J, **Sotres-Alvarez D**, Mossavar-Rahmani Y, McClain AC, Maldonado LE, Daviglus ML, Stephenson BJK. Examining Generalizability of Nutrient-Based Food Patterns and Their Cross-Sectional Associations with Cardiometabolic Health for Hispanic/Latino Adults in the US: Results from the National Health and Nutrition Examination Survey (NHANES) and the Hispanic Community Health Study/Study of Latinos (HCHS/SOL). medRxiv [Preprint]. 2023 May 5:2023.05.04.23289531. doi: 10.1101/2023.05.04.23289531. [PMID: 37205461], [PMCID: PMC10187442]. 28 pages.
3. Chandra A, Claggett B, Rodriguez C, Talavera G, Daviglus ML, Kansal M, **Sotres-Alvarez D**, Ponce S, Aviles-Santa L, Solomon S, Cheng S. Impact of the American Heart Association's Life Simple 7 on Cardiovascular Risk and Cardiac Structure and Function in a Diverse Hispanics/Latino Population. 30 pages.
4. De Vito R, Stephenson B, **Sotres-Alvarez D**, Siega-Riz AM, Mattei J, Parpinel M, Peters BA, Bainter SA, Daviglus ML, Van Horn L, Edefonti V. Shared and ethnic background site-specific dietary patterns in the Hispanic Community Health Study/Study of Latinos (HCHS/SOL). 33 pages. 25 pages.
5. Paynter L, Shriver LH, **Sotres-Alvarez D**, Calkins SD, Keane SP, Shanahan L, Wideman L. Adolescent Dietary Patterns and Cardio-metabolic Risk Markers in Emerging Adulthood. 22 pages.
6. Maldonado LE, **Sotres-Alvarez D**, Mattei J, Daviglus ML, Talavera GA, Perreira KM, Van Horn L, Mossavar-Rahmani Y, LeCroy MN, Gallo LC, Albrecht SS. A Posteriori Dietary Patterns and Insulin Resistance Status and Diabetes Risk by Hispanic/Latino Heritage in HCHS/SOL. 30 pages.
7. Garcia M, Lopez-Gurrola M, Alvarez-Malo AR, Gallo LC, Allison MA, **Sotres-Alvarez D**, Roesch SC, Talavera GA, Sallis JF, Gonzalez F, Castañeda SF. Socio-ecological Influences on Sedentary Time among Mexican Women: Results from the Hispanic Community Health Study/ Study of Latinos HCHS/SOL Casitas Ancillary Study. 20 pages.

CONFERENCE PRESENTATIONS**Invited Oral Presentations**

Sotres-Alvarez. Fifteen years of research in cardiovascular and chronic disease of US Hispanic/Latino persons: HCHS/SOL. Department of Biostatistics, Brown University, April 2023.

Sotres-Alvarez. Best Practices for Data Coordinating Centers of Multi-Site Studies: HCHS/SOL as a Case Study. Family Medicine and Public Health, UCSD, May 2022.

Sotres-Alvarez D. Speaker. Webinar 1: Methods for Dietary Assessments during Pregnancy. National Academy of Sciences, Engineering and Medicine, May 2021.

Sotres-Alvarez D. Panelist. Webinar 4: Valuable Approaches and Considerations for Assessing Diet Across all Life Stages. National Academy of Sciences, Engineering and Medicine, May 2021.

Sotres-Alvarez D, Shaw P, Shen J, Gustafson P, Kipnis V, Freedman L. Estimating the distribution of usual nutrient intake using predicted values from a calibration equation in a Complex Survey Design. The International Conference on Diet and Activity Methods, eICDAM, Feb 2021.

Sotres-Alvarez D, * Davalos AD, Cai J, Evenson K, Herring AH. The Tensor Mixture Model for Compositional Data with Essential Zeros: Jointly Profiling Accelerometry-Assessed Physical Activity and Sedentary Behavior in the Hispanic Community Health Study/Study of Latinos (HCHS/SOL). International Biometric Society, ENAR Meeting. Philadelphia, PA. March 2019.

Sotres-Alvarez D. Sedentary Behavior and Cardiometabolic Biomarkers in HCHS/SOL. School of Nursing, University of Virginia. Charlottesville, VA. April 10, 2018.

Sotres-Alvarez D, Siega-Riz Anna Maria, Shaw P, Mossavar-Rahmani Y. Calibrating Dietary Data for Analysis of Cardiometabolic Risk: Challenges, Opportunities and Results from the HCHS/SOL Cohort. UNC Nutrition Obesity Research Center, Gillings School of Global Public Health, UNC, Chapel Hill, NC. Jan 25, 2017.

Sotres-Alvarez D, Mendez M, Miles DR, Slining M and Popkin BM. *Shifts in the Recent Distribution of Energy Intake among U.S. Children Aged 2–18 Years*. Nutritional Epidemiology Seminar at Carolina Population Center (CPC), Gillings School of Global Public Health, UNC, Chapel Hill, NC. Oct 26, 2016.

Sotres-Alvarez D. “*Data access and opportunities to collaborate with HCHS/SOL Study*”. Professional Development Workshop: Catapult Your Research Career Using Public Data Sets. HHS/National Institutes of Health. Bethesda, MD. June 29, 2015.

Sotres-Alvarez D. “HCHS/SOL Study Design and Analysis Methods” 8-hr workshop at Summer Institute “Investing in America’s Future: Mentoring Researchers in Latino Health Disparities” funded by NHLBI to San Diego State University Graduate School of Public Health (GSPH) and Institute for Behavioral and Community Health (IBACH). San Diego, CA. Jul 2011, 2012, 2013.

Sotres-Alvarez D. Latent class models in nutritional epidemiology. Guest lecture for EPID 853: Advanced Topics in Perinatal and Pediatric Epidemiology. UNC, Apr 2013.

Sotres-Alvarez D, Herring AH, and Siega-Riz AM. *Modeling change in dietary patterns*. Nutritional Epidemiology Seminar at Carolina Population Center (CPC), UNC; Oct 2012.

Sotres-Alvarez D, Herring AH, and Siega-Riz AM. *Modeling change in dietary patterns*. University of Michigan, Biostatistics Department; Mar 2012.

Duncan B, Price D. **Sotres-Alvarez D.** *Careers in Biostatistics Panel.* Presented at the 2011 ENAR Workshop: Fostering Diversity in Biostatistics. Miami, Fl. Mar 2011.

Herring AH and **Sotres-Alvarez D.** Advanced Methods in Reproductive and Perinatal Epidemiology. Joint SPER/SER-SC/ASA Statistics in Epidemiology Section. Boston, MA. Jun 2007.

Contributed Oral Presentations

* Baldoni P, **Sotres-Alvarez D**, Shaw P. Statistical Strategies for the Analysis of Diet-Disease Models that Correct for Error-Prone Exposures. IBS, ENAR Meeting, Atlanta GA. March 2018.

* Wilson R, **Sotres-Alvarez D**, Evenson KR, Bangdiwala SI. Statistical approaches that account for accelerometer non-wear and the missing mechanism at the day-segment, day, and participant levels. International Biometric Society, ENAR Meeting, Washington DC, March 2017.

Sotres-Alvarez D, * Deng Y, Ayala GX, Carnethon M, Delamater AM, Isasi CR, Davis S, and Evenson KR. Impact of Data Reduction on Accelerometer Data. International Biometric Society, ENAR Meeting, Miami, FL. March 2015.

Sotres-Alvarez D, Herring AH, and Siega-Riz AM. *Latent transition models to study change in dietary patterns over time.* International Biometric Society, ENAR Meeting, San Antonio, TX. March 2009.

Sotres-Alvarez D, Habicht JP, Shamah T, Villalpando S, Rivera JA. *Impact of the Mexican Program for Education, Health, and Nutrition (PROGRESA) on rates of growth and anemia in infants and young children: a randomized effectiveness study.* FORUM 8: Global Forum for Health Research, Mexico City, México. Nov, 2004.

Posters (only as 1st author or by student)

* Zhao B, **Sotres-Alvarez D**, Evenson KR, Greenlee H, Mossavar-Rahmani Y, Qi Q, Marquez DX, Vidot DC, Elfassy T, Arredondo EM, Diaz KM. Day-of-the-week and Time-of-the-day Patterns of Sedentary Behavior in the Hispanic Community Health Study / Study of Latinos. AHA EPI|Lifestyle Scientific Sessions 2023, Boston MA, 2023.

Sotres-Alvarez D, Herring AH, and Siega-Riz AM. *Does food-grouping makes a difference when deriving dietary patterns using latent class models? A Monte Carlo simulation study.* The Joint Statistical Meetings, Vancouver, BC, Canada. Aug. 2010.

Sotres-Alvarez D, Herring AH, and Siega-Riz AM. *Latent transition of dietary patterns from pregnancy to postpartum.* International Conference on Dietary Assessment Methods (ICDAM8), Washington, DC. June, 2009.

Sotres-Alvarez D, Herring AH, and Siega-Riz AM. *Dietary patterns during pregnancy: factor analysis and latent class analysis.* Society for Epidemiologic Research, SER Meeting; Chicago, IL. June, 2008.

TEACHING

Linear and Logistic Regression, 2002, 2004 and 2013 (~25 students each class)

Required five-hour graduate level course

School of Public Health of México, Cuernavaca, Morelos, México

Longitudinal Analysis, 2003 and 2004 (~15 students each class)

Required three-hour graduate level course

School of Public Health of México, Cuernavaca, Morelos, México

SAS short course, 2003 and 2004 (~25 students each class)

Optional. Ten lecture hours

School of Public Health of México, Cuernavaca, Morelos, México

SCHOLAR/POSTDOC MENTORING

- Christina Cordero, PhD. Assistant Scientist, School of Medicine, University of Miami. Diversity Supplement to R01 - "Preconceptional Health of Latinas and its Association with Child Adiposity", MPI Sotres-Alvarez. (2021-)
- Deshira Wallace, PhD. Assistant Professor, Department of Health Behavior, Gillings School of Global Public Health, UNC Chapel Hill. K01 - "Racialization and Cardiovascular Risk Factors among Latinos - An Intersectional Approach". (2021-)
- Katelyn Holliday, PhD. Medical Instructor, Department of Family Medicine and Community Health, Duke University School of Medicine. Duke BIRCH scholar (Building Interdisciplinary Research Careers in Women's Health). "Spatial patterns of physical activity into behavioral interventions that incorporate sociodemographically-relevant built environment factors". (2020-2022)
- Briana Stephenson, PhD. "Bayesian nonparametric clustering methods for dietary data from complex survey studies", Diversity Supplement to HCHS/SOL. (2017-2019)

DOCTORAL DISSERTATION CHAIR OR CO-CHAIR

Current:

- Weny Xie (Biostatistics, UNC-Chapel Hill; co-chair with Donglin Zeng) "Precision Medicine with Survival Outcome and Inference for Generalization to Real World Evidence"

Completed:

- Rebbecca Wilson, (Biostatistics, UNC; co-chair with Shrikant Bangdiwala; 2018) "Using the multilevel generalized mixed model to impute missing accelerometry"

DOCTORAL DISSERTATION COMMITTEE MEMBER

Current:

- Beibo Zhao (Biostatistics, UNC-Chapel Hill; Anastasia Ivanova)

- Andrea Cazales (Nursing, UNC-Chapel Hill; Yamnia Cortes)

Completed:

- Erin Sley (Epidemiology, UNC-Chapel Hill; Andrew Olshan; 2023)
- Josh Rutsohn (Biostatistics, UNC-Chapel Hill; Young Truong; 2023)
- Tracie Shing (Biostatistics, UNC-Chapel Hill; John Preisser; 2021)
- Pooja Saha (Biostatistics, UNC-Chapel Hill; Anastasia Ivanova; 2021)
- Samantha Schilsky (Epidemiology, UNC-Chapel Hill; Kelly Evenson; 2021)
- Giovanna Lopez Gutierrez (Nutrition, INSP-Mexico; Dalia Stern; 2021)
- Lauren Paynter (Nutrition, UNC-Greensboro; Lenka Shriner; 2021)
- Luis E Maldonado (Nutrition, UNC-Chapel Hill; Sandra Albrecht and Linda Adair; 2021)
- Sandra Perez-Tepayo (Nutrition, INSP-Mexico; Sonia Rodriguez; 2020)
- Tania Sanchez (Nutrition, INSP-Mexico; Carolina Batis; 2020)
- Nancy P Lopez-Olmedo (Nutrition, UNC; Barry Popkin; 2018)
- Catherine Bulka (Epidemiology, UIC; Maria Argos; 2018)
- Briana Stephenson (Biostatistics, UNC; Amy Herring; 2017)
- Jayne K Jeffries (Health Behavior and Health Education, UNC; Leslie Little; 2017)
- Lindsay Fernandez-Rhodes (Epidemiology, UNC; Kari North; 2016)
- Meridith Eastman (Health Behavior and Health Education, UNC; Vangie A Foshee; 2016)
- Melecia Wright (Nutrition, UNC; Linda Adair; 2016)
- Chantel Martin (Epidemiology, UNC; Anna Maria Siega-Riz; 2015)
- Sonia Rodriguez (Nutrition, INSP-Mexico; Tere Gonzalez De Cossio; 2013)
- Ismael Campos (Nutrition, INSP-Mexico; Simon Barquera; 2013)
- Carolina Batis (Nutrition, UNC; Barry Popkin; 2013)
- Alejandra Cantoral (Epidemiology, INSP-Mexico; Mara Tellez-Rojo; 2013)

MASTERS STUDENTS SUPERVISED IN BIOSTATISTICS**Completed:**

- Angeline Sanders (May 2020), Association of Dietary Patterns and Hypertension in HCHS/SOL
- Derek Gazis (May 2018), Acculturation and Physical Activity among Hispanic Youth
- Natalie Smith (May 2017), Dietary Patterns derived by Reduced Rank Regression in HCHS/SOL
- Carolina Alvarez (May 2015), Comparison of Data Reduction Methods for Accelerometer Data: Results from HCHS/SOL Youth Ancillary Study

READER OF MASTER'S PAPER IN BIOSTATISTICS

- Yi Tang Chen (Feng-Chang Lin, May 2020), Latent subgroup analyses of the occurrence of pseudomonas aeruginosa infections in cystic fibrosis patients
- David Henke (John Preisser, May 2014), Logistic regression modeling: Compensating for an incomplete covariate via use of weights
- Tyler Bardsley (Amy Herring, May 2011), Latent Class Models for Studying Lipoprotein subclass patterns and intrauterine fetal growth

UNDERGRADUATE HONORS THESIS

Completed:

- Jose S. Lopez (May 2020), Comparing two statistical methods to address missing data in accelerometer data in HCHS/SOL Youth study.

RESEARCH GRANTS**Active**

<u>R01 DK116028</u> (Sotres-Alvarez and Siega-Riz)	9/18/18-6/30/24 (\$2.8M total cost)
Role: Principal-Investigator	1.8 Calendar (15.0 %)
Preconceptional Health of Latinas and its Association with Child Adiposity	
National Institute of Diabetes and Digestive and Kidney Diseases, NIH	
<u>75N92019D00010</u> (Cai, Coordinating Center; Visit 3)	11/30/18 - 11/29/24 (\$24.5M total cost)
Role: Co-Principal Investigator, Coordinating Center	5.4 Calendar (45.0 %)
Hispanic Community Health Study/ Study of Latinos (HCHS/SOL): Coordinating Center	
National Heart, Lung & Blood Institute, NIH	
<u>1R01DK134672</u> (Kaplan, subcontract to Sotres-Alvarez)	15/09/23 – 31/07/26 (\$100K total cost)
Role: PI of subcontract, Coordinating Center	0.6 Calendar (5.0 %)
Epidemiology of diet, metabolism and non-alcoholic fatty liver disease in Hispanic/Latino adults	
National Institute of Diabetes and Digestive and Kidney Diseases, NIH	
<u>R01HL158156</u> (Rodriguez, subcontract to Sotres-Alvarez)	01/09/22 – 31/08/26 (\$324K total cost)
Role: PI of subcontract, Coordinating Center	0.6 Calendar (5.0 %)
Heart-Vascular Predictors of Stage B HF among Hispanics	
National Heart, Lung & Blood Institute, NIH	
<u>R01 HL148463</u> (Carlson, subcontract to Sotres-Alvarez)	7/17/19 - 6/30/24 (\$717K total cost)
Role: PI of subcontract, Coordinating Center	0.60 Calendar (5.0 %)
Characterization of Sedentary Patterns and Cardiovascular Disease Risk Markers in Hispanics/Latinos	
National Heart, Lung & Blood Institute, NIH	
<u>R01 HL146132</u> (Kaplan & Matsushita, subcontract to Sotres-Alvarez)	8/1/19-7/31/24 (\$618K total cost)
Role: PI of subcontract, Coordinating Center	0.60 Calendar (5.0 %)
Peripheral Artery Disease Study of SOL	
National Heart, Lung & Blood Institute, NIH	
<u>R01-HL149778</u> (Poteat & Perreira)	3/4/2020 - 2/28/2025 (\$572K total cost)
Role: Co-Investigator	0.30 Calendar (2.5%)
Cardiovascular Health of Sexual and Gender Minorities (SGM) in HCHS/SOL	
National Heart, Lung & Blood Institute, NIH	
<u>R01 AG067568</u> (Ramos, subcontract to Sotres-Alvarez)	1/2/21 – 31/1/26 (\$950K total cost)
Role: Co-Investigator	0.60 Calendar (5.0 %)
Sleep in Neurocognitive Aging and Alzheimers Research (SANAR)	
National Institute on Minority Health and Health Disparities (NIMHD), NIH	

R01 HL148880 (Brown & Szapocznik, subcontract to Sotres-Alvarez) 1/7/20-30/6/24 (\$613K total cost)

Role: Co-Investigator 0.60 Calendar (5.0 %)
 Neighborhood Greenness and Cardiometabolic Health among Hispanics in the HCHS/SOL Study
 National Heart, Lung & Blood Institute, NIH

R01 MD015204 (Suglia & Isasi, subcontract to Sotres-Alvarez) 17/5/21 – 28/02/26 (\$256K total cost)

Role: Co-Investigator 0.3 Calendar (2.5 %)
 Social Stress, Epigenetics and Cardiometabolic Health Among Youth
 National Institute on Minority Health and Health Disparities (NIMHD), NIH

R61 HL142680 (Keyserling & Samuel-Hodge) 6/1/2019 – 5/31/24 (\$200K total cost)

Role: Co-Investigator 0.60 Calendar (5.0 %)
 Randomized Explanatory Trial of a Mediterranean Dietary Pattern Weight Loss Intervention for Primary Care Practices
 National Heart, Lung & Blood Institute, NIH

Completed

HHSN268201300001I (Cai, Coordinating Center; Visit 2) 6/01/13 - 11/29/18 (\$22M total cost)
 HHSN268200625233C (Cai, Coordinating Center; Visit 1) 9/30/06 - 05/31/13 (\$30M total cost)
 Role: Co-Investigator, Coordinating Center
 Hispanic Community Health Study/ Study of Latinos (HCHS/SOL): Coordinating Center
 National Heart, Lung & Blood Institute, NIH

R01 MD011389 (Kaplan, subcontract to Sotres-Alvarez) 07/08/16 - 8/28/23 (\$283K total cost)

Role: PI of subcontract, Coordinating Center 0.24 Calendar (2.0 %)
 Epidemiology of the Gut Microbiome, Prediabetes, and Diabetes in Latinos (GOLD)
 National Institute on Minority Health and Health Disparities, NIH

R01 HL136266 (Mossavar-Rahmani and Kaplan, subcontract to Sotres-Alvarez) 12/01/16-11/30/20 (\$290K total cost)

Role: PI of subcontract, Coordinating Center
 Cardiometabolic Outcomes in Multi-Ethnic Physical Activity & Sedentary Behavior Study (COMPASS)
 National Heart, Lung & Blood Institute, NIH

R01 DK106209 (Allison and Gallo, subcontract to Sotres-Alvarez) 7/01/15 - 6/30/20 (\$100K total cost)

Role: PI of subcontract, Coordinating Center
 Neighborhood Environments and Cardiometabolic Disorders in Hispanics/Latinos (CASAS)
 National Heart, Lung & Blood Institute, NIH

16SFRN27940007 (Castañeda and Allison, subcontract to Sotres-Alvarez) 4/01/16- 3/31/20 (\$77K total cost)

Role: PI of subcontract, Coordinating Center
 Population Project 3: Biopsychosocial and Ecological Correlates of Latina Women's Sedentary Behavior
 American Heart Association, Strategically Focused Go Red for Women Research Center

R01-HL098297 (Patel, subcontract to Sotres-Alvarez) Sleep Patterns as a Risk Factor for Disease in the Hispanic Community Health Study (SUEÑO) Role: PI of subcontract, Coordinating Center National Heart, Lung & Blood Institute, NIH (\$136K total cost)	07/01/10 - 04/30/14
R01-HL095856 (Mossavar-Rahmani, subcontract to Sotres-Alvarez) (\$110K total cost) Study of Latinos Nutrition & Physical Activity Assessment Study (SOLNAS) Role: PI of subcontract, Coordinating Center National Heart, Lung & Blood Institute, NIH	4/25/10 - 3/31/14
1RC2HL01649 (Gallo L & Penero F, subcontract to Sotres-Alvarez) (\$280K total cost) Socio-cultural Factors and CVD Risk/Prevalence in Hispanics Study Role: PI of subcontract, Coordinating Center National Heart, Lung & Blood Institute, NIH	7/30/09 - 12/31/11
R01-HL1021301 (Bangdiwala, Coordinating Center) (\$7.3M total cost) Hispanic Community Children's Health Study of Latino Youth (SOL YOUTH) Role: Co-Investigator, Coordinating Center National Institute of Heart, Lung, and Blood	04/01/11 - 11/30/16

PROFESSIONAL AFFILIATIONS

- International Biometric Society (Eastern North American Region - ENAR)
- American Statistical Association (ASA)
- International Society for the Measurement of Physical Behavior (ISMPB)

SERVICE

SCIENTIFIC REVIEW GROUP

- Analytics and Statistics for Population Research Panel B (ASPB), Member (2022-2026)
- NHLBI Special Emphasis Panel / ZRG1 PSE-E (02) M - Member Conflict: Population Sciences and Epidemiology A (March 2022)
- NHLBI Special Emphasis Panel / ZHL1 CSR-Q (F1) - Early Interventions to Promote Cardiovascular Health of Mothers and Children (ENRICH) Multisite Clinical Centers (UG3-UH3) (Dec. 2021)
- NIH Biostatistical Methods and Research Design (BMRD) Study Section (July 2021, Temporary)
- NHLBI Special Emphasis Panel / ZHL1 CCT-S (C1) - NHLBI Cardiovascular Health Study (CHS) Research Resource (2019)
- NIH Special Emphasis Panel / Scientific Review Group for Cancer, Heart, and Sleep Epidemiology Panel A Study Section (CHSA) (2016, 2017, 2018)

ADVISORY BOARD

- NHLBI Observational Study Monitoring Board (OSMB) for the Lung Health Cohort (LHC), Member
- ENAR Regional Advisory Board (RAB), Member 2018-2020 (3-year term)

JOURNAL REFEREE

- Statistics in Medicine, Journal of the American Statistical Association, The International Journal of Biostatistics
- American Journal of Epidemiology, Annals of Epidemiology
- American Journal of Clinical Nutrition, Journal of Nutrition, British Journal of Nutrition, Acad Nutr Diet, Nutrition Journal, European Journal of Nutrition
- Public Health Nutrition, BMC Public Health, Salud Pública de México
- PLOS ONE, Archives of Disease in Childhood, Eastern Journal of Medicine
- International Journal of Sleep Disorders
- American Journal of Preventive Medicine, Breast Cancer Research and Treatment

UNC BIOSTATISTICS DEPARTMENT

- Doctoral Applications Examination Committee, Wrote/Graded (2014-)
- Masters Written Examination, Grader (2014-2019)
- Inclusive Excellence Committee
- Faculty and Chair Search Committees

UNC Gillings School of Global Public Health

- Gillings Research Strategic Planning Task Force, Member (2023)