

Curriculum Vitae

Corey S. Sparks, Ph.D.

Contact information

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Github: <https://github.com/coreysparks>

Educational Background

2007 Ph. D. in Anthropology and Demography, Pennsylvania State University

2001 M.A. in Anthropology, Statistics minor, University of Tennessee.

1998 B.A. in Anthropology, University of Tennessee

Professional Employment History

2023 - Present Lead Decision Science Analyst, United Services Automobile Association

2023 - Present Associate Professor of Instruction, Department of Demography

College for Health, Community and Policy

The University of Texas at San Antonio

2014 – 2023 Associate Professor and Graduate Advisor of Record, Department of Demography

College for Health, Community and Policy

The University of Texas at San Antonio

2015 – Current Adjunct Associate Professor, Department of Population Health Science,

University of Texas Health Science Center at San Antonio

2019 - Current Adjunct Associate Professor, Department of Ophthalmology

University of Texas Health Science Center at San Antonio

2007 – 2014 Assistant Professor, Department of Demography

College of Public Policy

The University of Texas at San Antonio

2010 – 2014 Adjunct Assistant Professor, Department of Biostatistics and Epidemiology

University of Texas Health Science Center at San Antonio

2007 – Lecturer II Department of Anthropology

College of Liberal and Fine Arts

The University of Texas at San Antonio

2001 – 2006 Graduate Research Assistant

Department of Anthropology and Population Research Institute

The Pennsylvania State University

1999 – 2001 Graduate Research Assistant

Department of Anthropology

The University of Tennessee

Awards and Honors

2022 Summer at Census Scholar, US Census Bureau

2022 College for Health Community and Policy Nominee for the Presidential Award for Teaching Excellence

2021 UTSA Graduate School Outstanding Graduate Advisor of Record

2021 College for Health Community and Policy Nominee for the Presidential Award for Teaching Excellence

2013 & 2014 UTSA College of Public Policy Nominee for the Presidential Award for Research Achievement – Tenure Track Faculty
 2012 UTSA College of Public Policy Excellence in Research Award – Tenure Track Faculty
 2011 UTSA College of Public Policy Teaching Excellence Award – Tenure Track Faculty
 2010 Poster Award, Rural Sociological Society Annual Meeting
 2010-2011 Faculty Development Leave, The University of Texas at San Antonio
 2004 to 2006 NICHD Traineeship in Demography, Population Research Institute, Pennsylvania State University (NIH #2T32HD007514-06 to Gordon DeJong)
 2002 Winner, E. E. Hunt Student Award for best meeting paper, Human Biology Association
 2002 Winner 17th Annual Pennsylvania State University Graduate Research Exhibition
 2001 – Present Member, Phi Kappa Phi
 2001 – Present Member, Sigma Xi
 1998 Member Lambda Alpha National Anthropology Honors Society

Peer-Reviewed Publications (* indicates student author)

Accepted Muehlenbein M, Gassen J, Shattuck E and Sparks CS Lower testosterone levels are associated with higher risk of death in men. *Evolution, Medicine and Public Health* (10% effort)

Accepted Sileo K, Sparks CS and Luttinen R* Spatial analysis of the alcohol, intimate partner violence, and HIV syndemic among women in South Africa. *AIDS and Behavior* (50% effort)

2022 Cano, M and Sparks CS Drug Overdose Mortality by Race/Ethnicity across US-Born and Immigrant Populations. *Drug and Alcohol Dependence* v. 232, 1 <https://doi.org/10.1016/j.drugalcdep.2022.109309> (30% effort)

2022 Bitew* F, Nyarko S* and Sparks CS Machine learning approach for predicting child undernutrition determinants in Ethiopia: Evidence from the 2016 Ethiopian Demographic and Health Survey. *Public Health Nutrition*. <https://www.doi.org/10.1017/S1368980021004262> (20% effort)

2022 Shattuck, E and Sparks CS Sleep duration and quality are associated with immune markers and mortality in a large cohort (NHANES 2005-2014). *American Journal of Human Biology*
<https://doi.org/10.1002/ajhb.23574> (50% effort)

2021 Saenz R, Sparks CS and Validova A* Inequities in Job Recovery During the Covid-19 Pandemic: A Year Later. *Carsey School of Public Policy Research Publication*.
<https://carsey.unh.edu/publication/inequities-in-job-recovery-during-covid-19-pandemic> (33% effort)

2021 Howard, Jeffrey T., Sparks, Corey S., Santos-Lozada, Alexis R., Olowolaju, Samson* A., Janak, Jud C., Howard, Krista J. Trends in Mortality among Pregnant and Recently Pregnant Women in the United States, 2015-2019. *JAMA* doi:10.1001/jama.2021.13971
<https://jamanetwork.com/journals/jama/fullarticle/2785515> (33% effort)

2021 Leal D*, Mabry P*, Cano P*, Sansone V and Sparks CS Geography and College Access: Exploring Spatial Equity Gaps among Rural Latina/o Students in Texas. *Alliance for Research on Regional Colleges Research Paper* <https://www.regionalcolleges.org/project/geography-and-college-access>. (10% effort)

2021 Silva JE and Sparks CS Forecasting Diabetes mortality in Mexico by marginalization and sex: an application of hierarchical time series. *EconoQuantum Journal* v.18, n.2, pp 1-17
<https://doi.org/10.18381/eq.v18i2.7225> (40% effort)

- 2021 Roghani A*, Nyarko S* and Sparks CS Young Adults' First Family Formation: Is Family Process Influential? *SN Social Sciences*. <https://link.springer.com/article/10.1007/s43545-020-00045-x> (40% effort)
- 2021 Light L, Savini T, Sparks CS and Bartlett T White-handed gibbons (*Hylobates lar*) alter ranging patterns in response to habitat type. *Primates* 62:1 pp 77-90. <https://doi.org/10.1007/s10329-020-00858-7> (5% effort)
- 2020 Bitew F*, Nyarko S*, Potter LP and Sparks CS Machine learning approach for predicting under-five mortality determinants in Ethiopia: evidence from the 2016 Ethiopian Demographic and Health Survey. *Genus*. <https://doi.org/10.1186/s41118-020-00106-2> (15% effort)
- 2020 Grenier A*, Dickson D, Sparks CS, and Wicha N Meaningful multiplication: Electrophysiological evidence that children and adults treat multiplication facts differently. Under review at *Developmental Cognitive Neuroscience*. <https://doi.org/10.1016/j.dcn.2020.100873> (10% Effort)
- 2020 Grace B Bowland, Jeremy Koster, Robin M Bernstein, Christine Fiorello, Maris Brenn-White, James Liu, Laura Schwartz, Amanda Campbell, Devon von Stade, Janet Beagley, Julie Pomerantz, Alejandro Gonzalez, Mackenzie Quick, Kailyn McKinnon, Andrea Aghaian, Corey Sparks and Joshua Gross. Fur Color and Nutrition Predict Hair Cortisol Concentrations of Dogs in Nicaragua. *Frontiers in Veterinary Science*. <https://www.frontiersin.org/articles/10.3389/fvets.2020.565346/full?> (5% effort)
- 2020 Saenz R and Sparks CS The Inequities of Job Loss and Recovery Amid the COVID-19 Pandemic. Carsey School of Public Policy Research Publication. <https://carsey.unh.edu/publication/inequities-job-loss-recovery-amid-COVID-pandemic>. Published August 11, 2020. (50% effort)
- 2020 Sansone VA, Sparks CS, and Cano-McCutcheon P.* Metro – Nonmetro variation in access to postsecondary opportunity: A spatial approach toward understanding rural racial/ethnic differences in Texas. *Journal of Critical Thought and Praxis* <https://iastatedigitalpress.com/jctp/article/id/11013/> (30% effort)
- 2020 Nyarko S* and Sparks CS Levels and determinants of HIV testing uptake among Ghanaian men. *African Journal of AIDS Research*. <https://doi.org/10.2989/16085906.2019.1679851> (25% effort)
- 2019 Nyarko S*, Sparks CS and Bitew F* Spatio-temporal patterns of unmet need for family planning in Ghana: 2003-2014. *Genus*. Vol 75. <https://doi.org/10.1186/s41118-019-0069-7> (25% effort)
- 2019 Jennings J, Sparks CS and Murtha TM Interdisciplinary approach to spatiotemporal population dynamics: The North Orkney Population History Project. *Historical Life Course Studies*. <http://hdl.handle.net/10622/23526343-2019-0002?locatt=view%3Amaster> (33% effort)
- 2019 Bitew, F*, Nyarko, S.* and Sparks CS Spatial and temporal variations in women undernutrition in Ethiopia- A multilevel analysis. *African Population Studies* <https://doi.org/10.11564/33-1-1364> (33% effort)
- 2019 Atherwood S* and Sparks CS Race/Gender Deconstruction of Labor Outcomes of Young Adults with College Experience in the United States, 2007-2015. *PLOS One* <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0214234> (40% effort)
- 2019 Sparks CS and Joyner K Population Research Briefs in Population Research and Policy Review. *Population Research and Policy Review*. Vol 3. no 2, 153-155 <https://link.springer.com/article/10.1007/s11113-019-09522-5> (75% effort)

2017 Rebecca J. Walter, Foote N*, Cordoba H, Sparks CS Historic Roots of Modern Residential Segregation in a Southwestern Metropolis: San Antonio, Texas in 1910 and 2010. Urban Science. <http://dx.doi.org/10.3390/urbansci1020019> (20% effort)

2017 Harris, R. J., McDonald, D. P., & Sparks, C. S. Individual Experiences, Demographics and Organizational Contexts: Sexual Harassment in the Military. Armed Forces & Society <https://doi.org/10.1177/0095327X16687069> (20% effort)

2015 Sparks C An examination of disparities in cancer incidence in Texas using Bayesian random coefficient models. PeerJ. DOI: [10.7717/peerj.1283](https://doi.org/10.7717/peerj.1283). [Link](#) (100% effort)

2015 Noah A, Landale N and Sparks CS How Does the Context of Reception Matter? The Role of Residential Enclaves in Maternal Smoking during Pregnancy among Mexican-origin Mothers. Maternal and Child Health. DOI: 10.1007/s10995-015-1696-z. [Link](#) (15% effort)

2014 Yang TC, Shoff C, Black N, Noah A, and Sparks CS Racial segregation and maternal smoking during pregnancy: A multilevel analysis using the racial segregation interaction index. Social Science and Medicine 107: 26-36. DOI: 10.1016/j.socscimed.2014.01.030. (15% effort)

2014 Tapia M, Sparks CS and Miller JM Texas Latino prison gangs: Toward a demographic framework for understanding recent changes in social dynamics. The Prison Journal 94: 159-179. DOI:10.1177/0032885514524694. (33% effort)

2014 Sparks CS and Campbell J* An application of Bayesian methods to small area poverty rate estimates. Population Research and Policy Review. Volume 33, Issue 3, pp 455-477. DOI 10.1007/s11113-013-9303-8. (80% effort)

2014 Sparks CS Measuring residential segregation using R: So long to Factfinder. Spatial Demography 2014 2(1): 72-78. (100% effort)

2013 Sparks PJ, Sparks CS and Campbell J* Poverty segregation in nonmetro counties: A spatial exploration of segregation patterns in the US. Spatial Demography. 1:2 pp162-177. [Link](#) (70% effort)

2013 Sparks CS, Wood JW, and Johnson PL Infant mortality and intra-household competition in the northern islands of Orkney, Scotland, 1855-2001. American Journal of Physical Anthropology. 151:2 pp 1191-201 DOI: 10.1002/ajpa.22264 (95% effort)

2013 Sparks CS Spatial Analysis in R: Part 1 Getting data from the ACS into R and Exploratory Spatial Data Analysis. Spatial Demography 1:1 pp 131-139. [Link](#) (100% effort)

2013 Colon-Lugo H* and Sparks CS A Study of County Child Poverty Rates in Puerto Rico: Does Space Matter? Spatial Demography 1:1 pp. 96-110. [Link](#) (50% effort)

2013 Sparks PJ, Sparks CS, and Campbell, J* An application of Bayesian spatial statistical methods to the study of poverty segregation and infant mortality rates in the United States. GeoJournal. 78:2 pp. 389-405. DOI 10.1007/s10708-011-9445-3 (70% effort)

2013 Van Malderen C*, Ogali I, Khasakhala A, Muchiri SN, Sparks CS, Van Oyen H and Speybroeck N Decomposing Kenyan socio-economic inequalities in skilled birth attendance and measles immunization. International Journal for Equity in Health. [Link](#) (15% effort)

2012 Campbell J* and Sparks CS County-level poverty estimates for the contiguous United States, 2001, 2005. Journal of Maps 8:4 pp 334-339. <http://dx.doi.org/10.1080/17445647.2012.751061> (50% effort)

2012 Sparks PJ and Sparks CS Socioeconomic Position, Rural Residence, and Marginality Differences in Obesity Status in the Adult Mexican Population. International Journal of Population Research. ArticleID 757538 [Link](#) (50% effort)

2011 Sparks CS Violent crime in San Antonio, Texas: An application of spatial epidemiological methods. Spatial and Spatio-temporal Epidemiology. [doi:10.1016/j.sste.2011.10.001](https://doi.org/10.1016/j.sste.2011.10.001) (100% effort)

2011 Sparks CS Parental investment and socioeconomic status influences on children's height in Honduras: An analysis of national data. American Journal of Human Biology 23(1) 80-88. (100% effort)

2010 Sparks PJ and Sparks CS An application of spatially autoregressive models to the study of US county mortality rates. Population Space and Place 16(6): 465-481. (50% effort)

2009 Cline ME*, Sparks CS and Eschbach KE Understanding carpool use among Hispanics in Texas. Journal of the Transportation Research Board, 2118, pp. 39-46. (15% effort)

2009 Sparks CS An application of the variable-r method to subpopulation growth rates in a 19th-century agricultural population. Demographic Research 21: 23-63. (100% effort)

2009 Beckerman S, Erickson P, Yost J, Regalado J, Sparks CS, Jaramillo L, Iromenga M, Long K, and Diaz R Life histories, blood revenge and reproductive success among the Waorani of Ecuador. Proceedings of the National Academy of Sciences of the United States. 106(20): 8134-8139. (25% effort)

2003 Logan MH, Sparks CS, and Jantz RL Cranial Modification among 19th Century Osages: Admixture and Loss of an Ethnic Marker. Plains Anthropologist 48 (187): 209-224

2003 Sparks CS and Jantz RL Changing times, changing faces: Franz Boas' Immigrant study in modern perspective. American Anthropologist 105 (2): 333-337.

2002 Sparks CS and Jantz RL A Reassessment of Human Cranial Plasticity: Boas Revisited. Proceedings of the National Academy of Sciences, USA, 99 (23): 14636-14639.

Book Reviews

2020 "Book Review of *Spatial Regression Models for the Social Sciences* by Guangqing Chi and Jun Zhu" *Spatial Demography* 8, 119-122. <https://doi.org/10.1007/s40980-020-00057-4>

Peer-Reviewed Book Chapters

2017 Eason, J. M., Lichter, D., & Sparks, C. S. Crime, Punishment, and Spatial Inequality. In Ann Tickamyer, Jennifer Sherman and Jennifer Warlick (Ed.), *Rural Poverty in the United States*. New York, NY: Columbia University Press.
<https://cup.columbia.edu/book/rural-poverty-in-the-united-states/9780231172233> (10% effort)

Works Under Review or In Process

Sparks CS Applied Demographic Data Analysis using R. Book manuscript under contract with Springer, expected publication in 2023.

Sparks CS and Potter LP Effects of Measurement Error in the American Community Survey on Statistical Analysis: An Example Using Census Tract Mortality Rates. Under revision (90% effort)

Sharmin, S* and Sparks CS A multilevel analysis of maternal smoking risk in Texas, 2010-2015. In Preparation

Light, L, Corbett, P*, Sparks CS, and Bartlett T Activity and dietary patterns in white-handed gibbons (*hylobates lar*) in two habitat types in western Thailand. Under review.

Recently Presented Papers or Posters (2015-2022)

2022

Sharmin, S and Sparks CS Rurality, Social Capital, and Maternal Smoking in Texas, 2014–2018. Poster presented at the Population Association of America Annual Meeting.

Huang, Y and Sparks CS Income Loss and Mental Health Outcomes During the COVID-19 Pandemic in the United States: Heterogeneous Associations by Race and Exposure to Co-Racial/Ethnic Residents in Metropolitan Areas. Poster presented at the Population Association of America Annual Meeting.

2021

Sharmin, S and Sparks CS A multilevel analysis of racial segregation and maternal smoking during pregnancy in Texas, 2010-2015. Paper to be presented at the Population Association of America Annual Meeting.

Roghani A and Sparks CS The First Family Formation Among Young Americans: The Role of Family Process. Paper to be presented at the Population Association of America Annual Meeting.

Kim J and Sparks CS Childbearing Consequences of a Stratified Housing System in South Korea. Paper to be presented at the Population Association of America Annual Meeting.

2020

Silva J and Sparks CS. Forecasting Diabetes Mortality in Mexico by Marginalization Index and Sex: An Application of Hierarchical Time Series Models. Paper to be presented at the Population Association of America Annual Meeting, Washington D.C. **Canceled due to COVID-19**

Sparks PJ, Sparks CS, and Kinnison PC. Using a social determinants of health framework to examine current and changing health status in a clinical setting. Poster to be presented at the Population Association of America Annual Meeting, Washington D.C. **Canceled due to COVID-19**

Bitew F and Sparks CS. Spatio-Temporal Inequalities and Determinants of Undernutrition Among Children in Ethiopia. Poster to be presented at the Population Association of America Annual Meeting, Washington D.C. **Canceled due to COVID-19**

Bitew F and Sparks CS. Spatial Inequalities & Predictive Model for Determinants of Childhood Undernutrition in Ethiopia: Evidence from the 2016 Ethiopian Demographic and Health Survey. Poster to be presented at the Population Association of America Annual Meeting, Washington D.C. **Canceled due to COVID-19**

Sparks CS, Bitew F and Ibrahim E. Machine learning perspectives on infant mortality in Sub-Saharan Africa. Poster to be presented at the Population Association of America Annual Meeting, Washington D.C. **Canceled due to COVID-19**

2019

Bitew F and Sparks CS Spatial Inequalities & Predictive Model for Determinants of Childhood Undernutrition in Ethiopia: Evidence from the 2016 Ethiopian Demographic and Health Survey. Paper presented at the 2019 Annual meeting of the Southern Demographic Association, New Orleans LA.

Sparks CS and Potter LP Effects of Measurement Error in the American Community Survey on Statistical Analysis: An Example Using Census Tract Mortality Rates. Paper presented at Population Association of America annual meeting, Austin TX.

Nyarko S and Sparks CS Spatiotemporal Patterns of Unmet Need for Family Planning in Ghana: 2000 —2014. Paper presented at Population Association of America annual meeting, Austin TX.

2018

Lomeli-Carillo U and Sparks CS Spatio-Temporal Analysis of Homicide Mortality in Mexico, 1995–2015. Poster presented at the Population Association of America Annual Meeting, Denver, CO.

Bitew F and Sparks CS Spatial and Temporal Variation in Undernutrition Among Women in Ethiopia: A Multilevel Analysis. Paper presented at the Population Association of America Annual Meeting, Denver, CO.

2017

Atherwood S and Sparks CS Economic Return of a College Degree by Field of Study for Young Workers in the 21st Century. Paper presented at the Southern Demographic Association annual meeting, Morgantown, WV.

Sparks CS and Flores M Poverty and Female Homicide in Mexican Municipalities: A Bayesian Spatio-Temporal Analysis. Poster presented at the Population Association of America annual meeting, Chicago, IL.

Atherwood S and Sparks CS Employment Patterns of Millennials Before and After the Great Recession. Poster presented at the Population Association of America annual meeting, Chicago, IL.

Sparks CS Risk sensitive fertility behavior in historic Orkney, Scotland. Poster presented at the American Association of Physical Anthropology annual meeting, New Orleans, LA.

2016

Flores M, Sparks CS and Silva JE Spatio-Temporal Analysis of Diabetes Mortality in Mexico, 1995- 2013: A Bayesian Analysis. Poster presented at the Population Association of America annual meeting, Washington DC.

Sparks PJ and Sparks CS Shifting Demographics and Food Security Transitions: An Analysis of Two Cohorts of US Children. Poster presented at the Population Association of America annual meeting, Washington DC.

Foote, N., Walter, R., Cordoba, H., & Sparks, C. S., The Association of Collegiate Schools of Planning annual meeting, "A CENTURY OF SEGREGATION IN A SOUTHWESTERN COSMOPOLIS: SAN ANTONIO, TEXAS IN 1910 AND 2010", The Association of Collegiate Schools of Planning, Portland, OR. (November 2016).

2015

Sparks CS and Kinnison PC Hungry for equality: Food insecurity and income inequality in US Metropolitan Areas. Paper presented at the Southern Demographic Association annual meeting, San Antonio, TX.

Potter LP, Sparks CS, Pollock B and Munkombwe B Recent Trends in Influenza Vaccination Disparities among Texas Children. Poster presented at the Population Association of America annual meeting, San Diego, CA.

Published reports

2002 Meadows Jantz L, Jantz RL, Herrmann NP, Sparks CS, Weisensee KE, Kopp DV Archaeological Investigations at the last Spanish Colonial mission established on the Texas frontier: Nuestra Señora del Refugio (41RF1) Refugio County, Texas. Volume 2 Osteological Analysis. Center for Archaeological Research Archaeological Survey Report No. 315.

Grant Activities

Funded grants and contracts

2021 Co-PI Leveraging Big Data to Achieve Equity. Excelencia in Education and UNCF, \$22,500

2021 Co-PI Income Loss and Mental Health Outcomes During the COVID-19 Pandemic in the United States—Investigating the Moderating Role of Metropolitan Racial Residential Segregation. Ying Huang (PI), UTSA Intra Seed Grant, \$5,000

2021 Co-PI Linking the urban microbiome to lawncare choices: how does xeriscaping impact the microbiome? Allison Veach (PI), UTSA Transdisciplinary Teams (T2) grant, \$20,000

2021 Co-PI Spatial epidemiology of HIV, partner violence, alcohol misuse, and risky sexual behavior in South Africa: An assessment of the utility of the syndemic conceptual model. Katelyn Sileo Co-PI UTSA College for Health Community and Policy Interdisciplinary Seed Grant. \$10,000

2018 - 2019 PI “Predictive modeling consulting for Methodist Healthcare Ministries” Methodist Healthcare Ministries, \$58,000

2018 Co-PI Comfort, Texas Vision Plan, \$25,000, (8% effort)

2017 PI “Demographic Estimation of Pre-Kindergarten Population in Bexar County/San Antonio” San Antonio Early Childhood Educational Municipal Development Corporation \$19,901.

2014 PI “Spatio-temporal analysis of disparities in cancer incidence in the state of Texas, 1995-2010” UTSA Summer Seed Grant Program \$5,000

2013 Co-PI, "Assessing selection for hunting ability among domestic dogs in lowland Nicaragua in the absence of managed breeding." National Geographic Society \$20,000, PI Jeremy Koster

2013 Named Consultant, Veteran's Administration, “Geography and Readmission in Veterans (GEO-VETS)” \$50,000, PI Mary Bollinger

2012 Co-PI, “Social Impacts of the Deepwater Horizon Oil Spill on Coastal Communities along the US Gulf of Mexico”, Department of the Interior, UTSA \$479,742, PI Joachim Singelmann

2011 Subcontract, “Environmental Determinants of hepatocellular carcinoma in South Texas”, Cancer Prevention Research Institute of Texas, \$45,662, PI Bradley Pollock

2011 Contract, “Food shed assessment for San Antonio, TX”, City of San Antonio/CDC 1U58DP002453. \$50,000

2009 Co-PI UTSA College of Public Policy Collaborative Grant, \$2,000, PI J Mitchell Miller

2007 PI UTSA-Mexico Center Educational Research Fellowship. “A multilevel spatial analysis of mortality rates in Mexican municipios.” \$1,500

2007 PI UTSA Faculty Research Award. “Spatial analysis of demographic inequality between Mexican municipios.” \$5,000

2008-2009 Co-PI NSF HSD #0527539 “Spatiotemporal Dimensions of Population Change in the Northern Islands of Orkney, Scotland c. AD 1730-2000”. PI James Wood, Pennsylvania State University. \$526,000

Unfunded grants

2019 Sharma B, Martinez-Molina A and Sparks CS (co-PI) "Integrated study of health, sustainability and well-being in San Antonio" UTSA T2 Collaborative grant proposal. \$20,000.

2017 Co-PI Temporal Changes in Association Between Operational Energy Use and Socio-economic Behavioral and Building-Related Determinants in US Residential Sector. UTSA Internal collaborative grant, \$20,000.

2016 Sparks, C.S. (Co-principal) Collaborative Research MSB-FRA: Southern Reservoirs: Micro to MacroSystem Science through Disciplinary and Analytical Innovation and Integration. Thomas DeWitte, Texas A&M Principal. National Science Foundation \$1.78million.

2015 Sparks, C. S. (Principal), "Subcontract to NSF STC Center for Advanced Study and Computational Analysis of Disparities and Equality (CASCADE)", Sponsored by University of Tennessee/NSF, Federal, \$442,050.00.

2015 Sparks, C. S. (Co-Principal), & Sparks, P. J. (Principal), "Effects of residential segregation, the local food environment and household food security on individual health outcomes: a multilevel perspective", Sponsored by University of Kentucky Poverty Center/USDA, Federal, \$74,997.00.

2014 Zuckerman M (PI), Herrmann NP(Co-PI), West J(Co-PI), Sparks CS (Co-PI), Winer ES(Co-PI) NSF IBSS Collaborative Proposal: Mental Health, Disease, Migration, and Mortality: An Integrated Approach to Assessing a Marginalized Historical Population, Federal, \$950,286.

2011 Named Consultant, National Institute of Justice, "Evaluating the *Inner Peace* Education Program at Dominguez State Jail in San Antonio, Texas" \$179,702, PI Mike Tapia

2010 Co-PI, National Science Foundation, "Community Attachment: Predicting Factors in Hispanic Communities", Sociology Program. \$91,193, PI David Matarita-Cascante

2010 PI, UTSA TRAC Award "Bayesian small area estimation for health disparities research and policy analysis in South Texas. \$20,000.

2010 PI, USDA "Food insecurity assessment for San Antonio, TX" \$118,000.

2009 Co-PI National Science Foundation, "Factors Associated with Community Attachment: The Role of Parks", Social Psychology Program. \$103,795, PI David Matarita-Cascante

2009 PI, UTSA TRAC Award "Implications of land cover and land-use change and population growth in the US-Mexico Border region between 1990 and 2005". \$20,000

2009 Co-PI, San Antonio Life Sciences (SALSI) grant "An ecosocial analysis of US injury morbidity from a population perspective". \$230,684 PI Johnelle Sparks

2008 PI, UTSA Collaborative Seed Grant Program (CRSGP) "Land cover and land-use change and population growth in the US-Mexico Border region" \$30,000.

Software experience

SAS (1999 – Present), R (2000 – Present), Win/OpenBUGS (2010 – Present), ESRI ArcGIS (2002 – Present), QuantumGIS (2010 - Present)

Teaching Activities

Courses Prepared

Department of Demography

Graduate Courses prepared

GIS for population science 2008 - *

Statistics for demographic data 1 2009 - 2017*

Statistics for demographic data 2 2010 - *

Event History Analysis 2009 - *

Multivariate statistical analysis 2007 - 2008*

Applied Hierarchical Modeling 2016 -*

Spatial demography 2008 - *

Applied mathematical demography 2008 *

Introduction to social demography 2008

Undergraduate Courses

Social Demography and Public Policy 2014 *

* Uses R

Department of Anthropology

University of Texas San Antonio

Undergraduate Courses Prepared

The Human Skeleton 2007

Introduction to Physical Anthropology 2007

Department of Anthropology

Pennsylvania State University

Courses Taught

Introduction to biological anthropology

Workshops conducted

2022 R Bootcamp, UTSA Department of Demography (August 16 & 17 2022). Videos available at

<https://www.youtube.com/channel/UCt9H7wMpq00usMv21gDkMTQ>

2022 Spatial Analysis Workshop. Summer at Census. US Census Bureau. July 11th, 2022. Materials available at

https://github.com/coreysparks/summer_census/tree/master/code

2021 R Bootcamp, UTSA Department of Demography (August 17 & 18 2021). Slides available at

https://github.com/coreysparks/r_courses/tree/master/r_bootcamp

2020 Informal demographic methods seminars, Summer 2020, 5 seminars. Information available at

https://github.com/coreysparks/r_courses

2018 Analyzing US Census data using R, UTSA Office of Information Technology (December 11, 2018)

<https://medialibrary.utsa.edu/Play/20192>

2018 Spatial Analysis Workshop and Discussion, Texas A&M University, Texas Research Data Center, College Station, TX. (May 14-15, 2018)

2017 Introduction to R for Social and Behavioral Sciences. UTSA Office of Information Technology (October 19, 2017)

2016 "Spatial Analysis Workshop", Texas A&M University, College Station, TX. (September 17, 2016).

Invited Public Talks

2022 "Beyond simple maps - Integrating space and time with Bayesian models" Summer at Census Program, United States Census Bureau, July 11th, 2022

2021 "Beyond simple maps - Integrating space and time with Bayesian models" Brown Bag Seminar Florida State University Center for Demography and Population Health October 8, 2021.

https://github.com/coreysparks/talks/tree/master/FSU_talk

2021 "Introduction to SAS" lecture series for post-residency fellows in Pediatrics and Internal Medicine at UT Health San Antonio.

2021 "Introduction to R" lecture series for post-residency fellows in Pediatrics and Internal Medicine at UT Health San Antonio.

2019 "Demographic Research: Using R for downloading Census Data" UTSA Urban and Regional Planning Student Association invited lecture. (February 18, 2019)

2018 "Labor outcomes by gender and ethnicity for young adults with college experience, 2007-2015"

Presentation at the UTSA College of Public Policy Research Series. (January 26, 2018)

2017 "Demographic estimation of the pre-kindergarten population in Bexar County, Texas" UTSA College of Education Policy and Research in Education Seminar Series (November 14, 2017)

2017 "Bayesian Spatio-temporal analysis of mortality differentials in the US using the INLA approach"

University of West Virginia Department of Biostatistics seminar series, Morgantown, WV (October 26, 2017)

2012 "An Application of Bayesian Spatial Statistical Methods to the Study of Poverty Segregation and Infant Mortality Rates in the United States" Department of Sociology, Texas A&M University.
2012 "Introduction to R and RStudio" Alamo City R Users Group
2012 Workshop on Spatial Analysis. Texas A&M University Census Research Data Center.
2012 A Food Security Assessment for San Antonio, Texas. Presented at the First annual Food Policy Conference. May 10, 2012.
2009 Going beyond maps: GIS, statistical analysis and spatial modeling for informing local policy issues. GIS Day 2009, USAA Corporation.

Press Coverage of Research

2022 Sausage of Science Podcast SoS 153- Yes, you should get good sleep with Dr. Corey Sparks and Dr. Eric Shattuck
<https://www.humbio.org/sos-153-yes-you-should-get-good-sleep-with-dr-cory-sparks-and-dr-eric-shattuck/>
2021 Study shows mortality rates significantly increased among pregnant women from 2015 to 2019
<https://www.healio.com/news/primary-care/2021/026/study-shows-mortality-rates-significantly-increased-among-pregnant-women-from-2015-to-2019>
2021 Death rate among pregnant, recently pregnant women in US
<https://www.eurekalert.org/news-releases/932424>
2021 Research underscores need for job recovery programs for the underrepresented. UTSA today
<https://www.utsa.edu/today/2021/10/story/saenz-rogelio-job-recovery.html>
2021 Three professors use data science to tackle educational inequities for minority students. UTSA Today
<https://www.utsa.edu/today/2021/07/story/jha-sansone-sparks-leveraging-big-data-achieve-equity.html>
2009 War: Not the answer? Research Penn State
2003 Fergus, C Boas, Bones, and Race. Research Penn State 24(2)
2002 Holden, C Going head-to-head over Boas's data. Science 298(5595): 942b-943
2002 Wade, N A new look at old data may discredit a theory on race. New York Times October 8, D3

Additional training

2021 Coleridge Initiative Applied Data Analytics Training Program
2019 UTSA Summer Proposal Writing Institute
2018 UTSA Summer Online Teaching Academy
2011 Short course in Bayesian Spatial Epidemiology. Medical University of South Carolina

Service Activities

Dissertation Advisor

Alelhie (Lila) Valencia 2011, dissertation title: "A comparative analysis of intimate partner violence using an ecological framework"
Chun-Lin Lin 2012, dissertation title: "The effect of spatial access on utilization of health care services among the elderly."
Ke Meng 2012, dissertation title: "The relationship between children's health and mother's employment and labor force participation: A multilevel analysis."
Brian Munkombwe 2013, dissertation title: "Rural to Urban Migration and Child Mortality in Zambia: Effects of Migrant Selectivity, Contraceptive Use, and Birth Spacing."
Ramona Serban 2015, dissertation title: "The role of residential segregation on disparities in healthcare access"
Paul Chance Kinnison 2016, dissertation title: "Contextual influences on food insecurity risk"
Xiaoling Liang, 2017, dissertation title: "Student Outcomes: The Role of Teacher Salary Differentials"
Lorenzo Sanchez, 2018, dissertation title: "Social Vulnerability and Disaster Casualties: Exploring the Effect of Place as a Mediating Factor"

Serge Atherwood, 2020 dissertation title “MINDING THE GAP: GENDER DISPARITIES IN THE EARLY CAREER WAGES OF RECENT COLLEGE GRADUATES AND THE ROLE OF INDIVIDUAL CHOICE”

Ali Roghani, 2020 dissertation title “Adolescence family background and the formation of the first union in adulthood: Evidence from a Longitudinal Study”

Fikrewald Bitew, 2020 dissertation title “SPATIO-TEMPORAL INEQUALITIES AND PREDICTIVE MODELS FOR DETERMINANTS OF UNDERNUTRITION AMONG WOMEN AND CHILDREN IN ETHIOPIA”

Ricardo Ramirez, “CRITICAL SOCIO-ECONOMIC REGIONS AND DOGMATIC CAPITALISM: AN ANALYSIS OF INEQUALITY AND POVERTY IN TEXAS”

Uriel Lomeli-Carillo, Current

Scott Craig, Current

Dissertation committee member (Departmental)

Mary Bollinger 2010, dissertation title: “Obesity and place: A study of the South Texas Veterans Health Care System (STVHCS) user population”

Jennifer Roth 2010, dissertation title: “Veteran health and health care in the United States and Texas: A mixed-methods approach”

Marguerite Sagna 2010, dissertation title: “Inequalities in the utilization of maternal health services in Uganda”

Joseph Campbell 2011, dissertation title: "Poor people and poor places: Local opportunity structures and poverty transitions"

Victoria Locke 2011, dissertation title:” Calling it out: The Role of Institutional Racism in Disparities in Educational Outcomes”

Mary Hogan 2011, dissertation title: "Public health crisis- Obesity: Individual Risks and Causes"

Alma Martinez-Jimenez 2011, dissertation title:” Individual determinants associated with fasting glucose levels and environmental factors associated with diabetes prevalence”

Gilbert Suarez 2011, dissertation title:” Acculturation and Contraceptive Use Among Latino Adolescents in the U.S.”

Frank Martinez III 2012, dissertation title:” Las Colonias de la Frontera: A Study of Substandard Housing Settlements along the Texas-Mexico Border”

Carlos Valenzuela 2013, dissertation title:” An Analysis of Household Energy Use by Race/Ethnic Composition: Consumption, Efficiency, and Lifestyles”

Jinny Case 2013, dissertation title: ”Marriage, Homogamy and Divorce in the Educated Science and Engineering Population”

Susanne Schmidt 2013, dissertation title: ”Inequalities in Injury Risk in US Adults: Socioeconomic Status, Behavioral and Contextual Determinants- A Multilevel Analysis of Injury Morbidity and Mortality”

Heidy Colon-Lugo 2015, dissertation title: ”Poverty Traps and Migration Dynamics in Puerto Rico”

Jeffrey Howard 2014, dissertation title: “An examination of racial/ethnic and socioeconomic differentials in allostatic load biomarkers and the subsequent effects on mortality outcomes in the United States”

Pamela Willrodt, 2016 dissertation title: “VIETNAM-ERA VETERAN HEALTH: A LIFE-COURSE PERSPECTIVE AT THE END OF MIDDLE-ADULTHOOD”

Sharon Goodwin, 2017 dissertation title:” VETERAN STATUS AS AN EXPLANATION FOR SES AND HEALTH DIFFERENTIALS FOR MEN IN THE US”

Rebecca Adeigbe, 2017 dissertation title: “STRUCTURAL DETERMINANTS OF HEALTH: THE INFLUENCE OF INCOME INEQUALITY, RACIAL RESIDENTIAL SEGREGATION, AND SOCIAL COHESION ON LATINO CHILDHOOD OBESITY”

Jewel Barnett, 2017, dissertation title: “Barriers to health: place and food insecurity as determinants of childhood obesity”

Clarissa Ozuna, 2017, dissertation title: "COMMUNITY CULTURAL WEALTH AND LATINA/O STUDENT SUCCESS: AN EXAMINATION OF COMMUNITY CULTURAL WEALTH IN A MULTICONTEXTUAL MODEL OF LATINA/O 4-YEAR COLLEGE ENROLLMENT"

Andrea Bautista Leon, 2017 dissertation title: "Recent Patterns of Social Status Attainment During the Transition to Adulthood among Return Migrants in Mexico and Mexican Immigrants in the United States."

Federico Ghirimoldi, 2018, dissertation title: "BREAST CANCER PREVENTION AMONG IMMIGRANT WOMEN: DISPARITIES IN CANCER-RELATED RISKS AND BARRIERS TO PREVENTION"

Bricio Vasquez, 2018, dissertation title: "UNEMPLOYMENT EFFECTS ON COLLEGE ENROLLMENT: ON THE ROLE OF RACE/ETHNICITY, PARENTAL INVOLVEMENT, AND SPATIALLY BOUND RESOURCES IN THE WAREHOUSING OF AMERICAN YOUTH"

Sara Robinson, 2018, dissertation title: "TRENDS IN THE PREVALENCE OF PREDIABETES OVER TIME: DIFFERENTIALS BY SOCIOECONOMIC STATUS, AGE, PERIOD AND COHORT"

Daniela Krotzer, 2018, dissertation title: "EMPLOYMENT CHANGES CORRESPONDING TO THE DURATION OF DISABILITY"

Jessica Omoregie, 2018, dissertation title: "THE ROLE OF SOCIO-CULTURAL AND ECONOMIC DETERMINANTS IN WOMEN'S EXPOSURE TO MASS MEDIA, WOMEN STATUS, AND INFANT MORTALITY WITHIN NIGERIA"

Stephanie Hernandez, 2020

Samuel Nyarko, 2020

Kahli Hedrick Romano, 2020

Jeongsoo Kim, 2020

Muntasir Masum, 2021

Alejandra Mora, Current

Steven Weeks, Current

Marissa Laurel-Wilson, Current

Jeffrey Wright, Current

Jairemy Edwards, Current

Dissertation committee member (External)

Zifei Han, 2017, UTSA Applied Statistics Ph.D. Dissertation title "Gaussian Copula Models for Geostatistical Count Data".

Vanessa Sansone, 2017 UTSA Education Leadership and Policy Studies. Dissertation title: "EXAMINING THE ASSOCIATION OF FINANCIAL AID FACTORS ON THE PERSISTENCE OF LATINA/O COLLEGE STUDENTS AT A HISPANIC-SERVING INSTITUTION: A DISCRETE-TIME HAZARD MODEL"

Jennifer Tucker, 2017 UTSA Education Leadership and Policy Studies. Dissertation title: "Pathways to Graduation: Measuring Multi-Institutional Time to Degree by Attendance Patterns"

Clinton McKenzie, Current, UTSA Department of Anthropology

Masters Exit Paper Director (Departmental)

Mark Stewart, 2020 UTSA Department of Demography "The Interaction Between Subjective and Objective Isolation Regarding Physical and Mental Health"

Sarah Sharmin, 2021 UTSA Department of Demography "Rurality, Social Capital, and Maternal Smoking in Texas, 2014-2018"

Masters Thesis committee member (External)

Eze Onwuchekwa, 2012 UTSA Department of Geology, thesis topic: Analysis of crime rates in San Antonio, Texas.

Yunbo Bi, 2012 UTSA Department of Geology, thesis topic: GIS analysis of parks in San Antonio, TX.

University Service

2021- Present UTSA Graduate Council Committee on Graduate Programs and Courses chair
2015 - Present UTSA Graduate Council (Parliamentarian 2018)
2014, 2015 UTSA Department of Anthropology, Search committee member
2014-2016 UTSA Libraries Committee, Chair
2012-2014 UTSA Committee on Committees, Member
2012-2013 UTSA Presidential Tobacco-Free Task Force, Member
2012-2014 UTSA Quantitative Literacy Committee, Member
2010-2013 UTSA Faculty Senate Budget Committee
2010 UTSA Fall Convocation Committee
2008-2010 UTSA Committee on Conflict of Interest in Research & Intellectual Property, Member

College Service

2021 College for Health Community and Policy - Public Health faculty search committee
2020 College for Health Community and Policy - Public Health faculty search committee
2020 College for Health Community and Policy - Senior Communication coordinator search chair
2019 College of Public Policy DFRAC - Department of Social Work
2017 College of Public Policy Faculty Review and Awards Committee
2015 – present College of Public Policy Faculty development leave committee chair
2009-2014 & 2016 – 2017 College of Public Policy Student Awards Committee
2013-present College of Public Policy Web and Social Media Committee
2013-present College of Public Policy Faculty Research and Development Committee (Chair 2014)

Department Service

2018 Department Assistant Professor Faculty Search Committee Chair
2017 Department Assistant Professor Faculty Search Committee Chair
2017 - Present Department of Demography Faculty Review and Awards Committee
2015 - Present Graduate Advisor of Record
2008-2010 Student Recruitment Director
2011-present Department Webmaster
2011, 2014 Department Assistant Professor Faculty Search Committee
2010-present Applied Demography Society (student organization) Faculty Sponsor
2007-present Graduate Student Admissions Committee
2007-present Recruitment Committee, Member
2007-present Curriculum Committee, Member
2007-present Graduate Program Committee, Member

Professional Service

2022 Panelist, The Future of Publishing in the Population Sciences, PAA annual meeting
2022 Discussant, PAA annual meeting
2018 - Co-Editor in chief, *Population Research and Policy Review*
2018 - Guest editor, *PLOS One*
2018 - Editorial board, *Spatial Demography*
2017 Session chair, Southern Demographic Association annual meeting
2017 PAA Career Mentoring Lunch participant
2014 – Present Regular contributor to Rpubs site (http://rpubs.com/corey_sparks)

2015	Local arrangements, Southern Demographic Association annual meeting
2014, 2019	Poster judge, Population Association of America
2012	Program Committee, Rural Sociological Society
2012	Program Committee, Applied Demography Conference
2011-2012	Population Research Interest Group Chair, Rural Sociological Society

Community Service

2017 - 2020	Den Leader, Pack 511 Boy Scouts of America
2019 - Present	Webmaster, Huebner Elementary Parent Teacher Association website

Reviewer

Ad Hoc Reviewer for:

Demography, Proceedings of the National Academy of Sciences, Demographic Research, Health and Place, Social Science and Medicine, Social Problems, Spatial Demography, American Journal of Physical Anthropology, Southern Rural Sociology, Population Space and Place, Theoretical Population Biology, International Journal of Sustainable Transportation, International Journal of Population Research, Spatial and Spatio-temporal Epidemiology, Journal of Urban Health, PeerJ, Sage Open, Sociological Spectrum, BMJ Global Health, BMJ Open, Frontiers in Public Health, National Science Foundation (Methodology Measurement and Statistics Section), National Science Foundation IBSS panel member

Book Manuscript Reviewer

Sage Publications, Manning Publications

Professional Memberships

Population Association of America
 Southern Demographic Association
 American Association of Physical Anthropologists
 International Union for the Scientific Study of Population
 Sigma Xi