

# ROBERT L. SANTOS

**Vice President & Chief Methodologist**  
Statistical Methods Group  
The Urban Institute

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## EDUCATION

M.A., Statistics, University of Michigan, Ann Arbor, 1977

B.A., Mathematics, Trinity University, San Antonio, 1976

## KEY QUALIFICATIONS

- Over 40 years of survey research experience, including senior level appointments in world renown research institutions and executive level positions in both nonprofit and for profit research firms
- Extensive experience as sampling statistician, survey methodologist, senior project director, unit director, area manager, and executive officer
- Specializes in statistical research design, qualitative research design, multi-mode complex survey design, survey operations, survey methodology, program evaluation design, and rare element sampling
- *Fellow of the American Statistical Association*; numerous leadership positions in American Statistical Association (Vice President, 2015-2017) and the American Association for Public Opinion Research (President, 2014); recipient of *2006 American Statistical Association Founder's Award* for excellence in survey statistics and other contributions
- Extensive professional service to survey research, statistics, public opinion research and health services research, public policy research

## CAREER BRIEF

Mr. Santos is Chief Methodologist and Director of the Statistical Methods Group at The Urban Institute. Previously to UI, he was Executive Vice President and Partner of NuStats Partners, LP, a social science research firm in Austin Texas. Mr. Santos has held leadership positions in the nation's leading survey research organizations, including the National Opinion Research Center (NORC) at the University of Chicago (Vice President of Statistics and Methodology; Director of Survey Operations); the Institute for Social Research at the University of Michigan (Director of Survey Operations); and Temple University (Sr. Study Director and Sampling Statistician). Santos was trained in sampling and survey research methods at the renowned Institute for Social Research, University of Michigan.

Mr. Santos specializes in sampling, survey design, survey methodology, and survey operations, including rare element sample designs such as those designs related to Hispanic and other racial-ethnic groups. Santos has designed and implemented numerous studies across the inter-disciplinary landscape of social policy research. This includes studies in food insecurity/hunger, health, transportation, housing, justice policy, education, families and children, immigrants and refugees, environmental policy, and infrastructure (firefighter safety, EMS). Specialty areas include, among others, sensitive topics (e.g., risky health behaviors), vulnerable populations (e.g., food insecure families, refugees, incarcerated), and environmental issues (violators of the Clean Air Act). A few noteworthy national samples Santos designed include the 2014 Hunger in America Study, 2000 & 2012 National Housing Discrimination Studies, the 2001 Integrated Studies of Educational Technology (ISET), the 1987 National Survey of Families and Households; and the 1989 National Latino Political Survey. Mr. Santos has been involved in numerous evaluation studies, including evaluation of Head Start DSR Program for ACF, NSF's Louis Stokes Alliance for Minority Partnerships (LSAMP) initiative, NSF's Bridge to the Doctorate program, the Historically Black Colleges and Universities Undergraduate Program (HBCU-UP) and the Court Improvement Initiative.

Mr. Santos is a member of the NCHS Board of Scientific Counselors (2017-2020), Centers for Disease Control, appointed by the U.S. Secretary of HHS. He has served on numerous National Academies' Panels including: Evaluating the Department of Veterans Affairs Mental Health Services (IOM), Future Direction of ACS (CNSTAT), the Redesign of the BLS Consumer Expenditure Survey, the Committee on Social Security Representative Payees, the Transportation Research Board Panel (08-79) on Identifying Alternatives for Producing 5-year CTPP Data Products from the ACS, and the Census Advisory Committee for Professional Associations. Santos evaluated grant applications for over six years as a member of the AHCPR Health Systems Research Study Section. He was a long-

time member of the Editorial Board of the *Public Opinion Quarterly*, and has refereed for numerous statistical and survey research journals including *Journal of the American Statistical Association*, *International Statistical Institute Bulletin*, *Journal of Official Statistics*, and *Statistical Science*. Santos is also highly active in the professional survey research and statistical communities, with many leadership appointments, including President of the American Association for Public Opinion Research (presidential term 2013-2015) and Vice President of the American Statistical Association (2015-17).

#### AWARDS

Fellow of the American Statistical Association, 2004

Founder's Award, American Statistical Association, 2006

#### CHRONOLOGICAL EMPLOYMENT HISTORY

##### **The Urban Institute**

*Chief Methodologist & Director of Statistical Methods Group*

**Washington, DC**

*August 2006 - present*

##### **NuStats Research & Consulting, LLC**

*Executive Vice President & Partner*

**Austin, TX**

*2001-2006*

##### **The Urban Institute**

*Principal Research Associate*

**Washington, DC**

*1999-2001*

##### **National Opinion Research Center at University of Chicago**

*Vice President, Statistics & Methodology Division*

*Director of Survey Operations Center*

**Chicago, IL**

*1998-1999*

*1996-1997*

##### **Survey Research Center, University of Michigan**

*Director of Survey Operations*

**Ann Arbor, MI**

*1989-1996*

##### **Institute for Survey Research, Temple Univ.**

*Senior Study Director and Sampling Statistician*

*Sampling Statistician and Study Director*

**Philadelphia, PA**

*1987-1989*

*1982-1987*

##### **Survey Research Center, University of Michigan**

*Research Assistant*

**Ann Arbor, MI**

*1977-1981*

#### URBAN INSTITUTE RESEARCH PROJECT EXPERIENCE

***Miscounts & Implications in the Upcoming 2020 Decennial Census.*** Co-Principal Investigator (2018–present), for the Bill & Melinda Gates Foundation. This \$160,000 research project is producing ranges of estimates of the 2020 Census miscounts—over and under—for demographic groups by state and for the total US population. Findings will culminate in a written brief and visual interactive mapping tool.

***2018 & 2019 Annual Survey of Refugees.*** Co-Principal Investigator (2018-2020) Sponsored by the Office of Refugee Resettlement (ORR), this ASPE/HHS contract calls for conducting two additional rounds of the Annual Survey of Refugees in support of ORR's annual reporting requirements to Congress. The survey objectives include conducting 1,500 interviews with refugees arriving to the U.S. in the last five years and involving about a dozen non-English languages and at least as many cultures. This two-year, \$1.5 million project paints a portrait of the refugee integration experience in terms of employment, education, English language acquisition, and other socio-economic measures.

***Soul of the Community.*** Co-Principal Investigator (2017-2019) The Urban Institute has been funded by the Knight Foundation to design, oversee implementation of, and analyze the data from a large-scale sample survey entitled Soul of the Community. The objective is to measure how connected local residents are to their community, what community features are most important or valuable to them, how connected they are to other local residents, and how they use and value public space. The telephone survey will feature a national sample of households supplemented with oversamples of 26 metro areas, resulting in 14,800 completed interviews overall.

***Redesign of the Annual Survey of Refugees.*** Co-Principal Investigator (2016-2018) Sponsored by ASPE/HHS and the Office of Refugee Resettlement (ORR), this \$1 million project calls for a complete redesign of the congressionally mandated national Annual Survey of Refugees (ASR), from the specification of research questions to sampling, integration constructs and questionnaire design, data collection modes and periodicity of data collection. Tasks

include an assessment of previous design and methodologies, convening of experts and research to redefine integration, development of a redesign, and pretesting to validate and refine the design in preparation of the 2018 ASR.

**2016 & 2017 Annual Survey of Refugees.** Co-Principal Investigator (2016-2018) Sponsored by the Office of Refugee Resettlement (ORR), this ASPE/HHS contract calls for conducting the 2016 and 2017 Annual Survey of Refugees in support of ORR's annual reporting requirements to Congress.

**2020 Census Administrative Records Policy Implications Convening.** Principal Investigator (2016-2017) This project is designed to identify, communicate and discuss the policy relevant implications of using federal, state and commercial administrative records data in the enumeration process of the upcoming 2020 Decennial Census. A special convening will be conducted to include policy researchers, the advocacy community, statisticians, and Census Bureau staff, culminating in a report with findings and recommendations for Bureau of the Census consideration. This \$60,000 grant is headed by the Urban Institute and co-sponsored by The Leadership Conference and the Georgetown University Center for Poverty and Inequality. The New Venture Fund provided funding.

**Collaborating for Clients: Training, Technical Assistance, and Evaluation** Co-Principal investigator (2015-2018). Funded by Feeding America (FA), this three-year \$675K evaluation project will provide technical assistance to 5 pilot projects developed by food banks which feature collaborations with local organizational partners to provide a more holistic approach to addressing not only the hunger issues faced by families but also the co-existing and underlying issues that are associated with food insecurity (e.g., health, employment, etc.). Urban is conducting a process evaluation and developing a framework for an outcome evaluation of these pilot approaches.

**Pathways for Community Voices.** Co-Principal Investigator (2015-2018) Sponsored by the Fund for Shared Insight, this \$600K study is a collaboration with Feeding to pilot and rigorously test multiple measures and methods to acquire feedback from clients, make meaningful programmatic changes based on that feedback, communicate these changes back to the client, tailor services to produce greater client positive impact, and as a consequence to improve clients' individual outcomes and perceptions of the services they receive. The project employs Community Based Participatory Research approach to allow food banks and their agencies to develop and instill client feedback in as a key element in a continuous improvement approach to service delivery program development.

**Community Vulnerability Assessment Tool.** Co-Principal Investigator. (2014-2017). Sponsored by DHS under a Fire Safety and Prevention Grant, this \$1M project assembles diverse sets of geo-spatial, fire incident and infrastructure data and conducts analyses to create a community specific risk profile as well as a fire department specific readiness profile that can be compared in order to maximize insights into and highlight areas of concern regarding the level of correspondence between the documented community risk and fire department resource readiness/deployment. A community specific "vulnerability scoring" will then be determined and assigned.

**Housing Discrimination on the Basis of Source of Income.** Co-Principal Investigator (2013-2017). This \$3M contract from HUD called for the design, conduct and analysis of a multi-site pilot study on rental housing discrimination among families receiving housing vouchers. A paired testing methodology was used in which testers representing families with and without respond to rental ads and specific measures of their home seeking experience are used to develop estimates of differential treatment.

**Longitudinal Research on Aging Drivers (LongROAD)** Co-Principal investigator (2014-2017). Funded by AAFTS, this study involves a five-year \$12 million project to understand how physical and cognitive functions, medical conditions, medications and vehicle technologies affect driving safety among seniors aged 65+ over time. Research will also examine how older drivers self-regulate in reaction to challenging driving conditions as well as the causes and consequences of driving cessation. This five year study of 3,000 senior drivers involves recruitment in multiple medical facilities sites across the country and the collection of cognitive, medical, geospatial/geotemporal driving data as well as attitudinal and other data. As co-PI Santos provides statistical and methodological support. Substantive research partners include Columbia University Mailman School of Public Health and University of Michigan Transportation Research Institute.

**Feeding America Longitudinal Research Planning Project.** Co-Principal Investigator (2015-2016). Funded by Feeding America, this \$200K project will conduct research to develop a concept paper and preliminary research designs for a longitudinal study of households receiving charitable feeding assistance and those that are at risk of needing services. This study will also explore the temporal concurrence and interdependencies between food insecurity and housing stability/sustainability among families who turn to emergency food services, housing assistance, or who altogether fail to tap these resources.

**Research to Determine Number of Primary Sampling Units in the National Children's Study.** Principal Investigator (2013-2014). NIH commissioned an independent study to examine the trade-offs in statistical precision for two-stage

sampling designs involving various numbers of PSUs (hospitals) for the (now defunct) National Children's Study. Micro level data from the 2011 State Inpatient Databases were used to conduct simulation studies under varying numbers of PSUs and noting the impact on outcome measures of births. Work was conducted in partnership with researchers at Columbia University and Baruch College.

***Pilot for Estimate of Housing Discrimination against Lesbian, Gay, Bisexual and Transgender (LGBT) People.*** Sr. Statistical Advisor (2013-2015). This \$3M contract from HUD calls for the design, conduct and analysis of a multi-site pilot study on rental housing discrimination among LGBT persons. A paired testing methodology is being used and specific measures of their home seeking experience are used to develop estimates of differential treatment.

***Research on Fostering Economic Stability for Vulnerable Americans.*** Co-Principal Investigator (2013). Sponsored by Feeding America (FA), this project conducted research to identify vulnerable populations and existing FA Network initiatives that showed promise for a wider distribution. UI guided FA through a decision-making process that to define the initiative's goals and target population, best practices to meet the target population's most critical needs, and the capacity and resources to implement these practices. The research effort included a mixed method qualitative-quantitative approach, including multi-site visits and observations, in-depth interviews, analysis of secondary data and the conduct of a small agency survey. The results of this project fed into FA's a multi-year comprehensive initiative to use its network as a platform for (a) education, (b) health, and (c) employment in partnership with national and local funders and service providers.

***Rental Housing Discrimination Study Against Persons Who Are Deaf or Who Use Wheelchairs.*** Co-Principal Investigator (2013-2014). This \$6M contract from HUD called for the design, conduct and analysis of a multi-site national study on rental housing discrimination among persons who are deaf or who use wheelchairs. A paired testing methodology was used in which disabled and non-disabled testers respond to rental ads and specific measures of their home seeking experience are used to develop estimates of differential treatment. These measures were used to develop statistically valid estimates.

***Measuring Discrimination Against Families with Children in Rental Housing.*** Co-Principal Investigator (2013-2014). This \$2.3M contract from HUD called for the design, conduct and analysis of a pilot study on rental housing discrimination among families with children. A paired testing methodology was used in which testers representing families with children and childless households respond to rental ads and specific measures of their home seeking experience are used to develop estimates of differential treatment. These measures were used to explore the feasibility, validity and costs of conducting discrimination testing for families with children.

***National Pretrial Reporting Program.*** Co-Principal Investigator and Sr. Sampling Statistician (2012-2016). This project is sponsored by the Bureau of Justice Statistics (BJS) in the U.S. Department of Justice. The National Pretrial Reporting Program (NPRP) is a biennial national survey of courts whose objective is to generate national estimates on pretrial release and misconduct for both misdemeanor and felony defendants. This project uses a mixed-method qualitative-quantitative study to gather information and produce a complete re-design of the NPRP. Qualitative research includes focus groups of state and county court officials to examine issues of standardization, access to and breadth of pretrial release and misconduct data. Quantitative analyses are being conducted with existing NPRP and other secondary data to feed the investigation into the development of a new sample design and data collection approach.

***Exploratory Advanced Travel Research.*** Co-PI and Sr. Sampling Statistician (2011-2013). Sponsored by the Federal Highway Administration of the U.S. Department of Transportation, this two year study investigated alternative sampling and measurement methods for capturing *long distance* travel of the U.S. public. Besides an exploration of alternative sampling frames for surveying U.S. households, this study included tests of new technology to capture travel behaviors such as smart phones, GPS units and other methods.

***Driving Exposure Data Collection System.*** Co-PI and Sr. Methodologist (2012-2017). Funded by the AAA Foundation for Traffic Safety (AAAFTS), this \$1.5 million project called for research to develop, pilot, launch and maintain a data collection system to assess annual vehicle driver exposure of the U.S. population. The research included a literature reviews, industry scans and analysis of existing travel data to develop a prototype and pilot test a data collection system to be adopted by AAAFTS for regular collection and publishing of driving exposure population profiles. The continuous telephone survey commenced in 2013 and accumulated over 14,000 completed interviews.

***High Rise Fire Safety.*** Sr. Methodologist (2011-2012). The proposed project quantified the effects of crew size, effective firefighting force assembly time, vertical-response time and fire service access elevators on the intervention capability, effectiveness and safety of firefighters during a working high-rise, high risk building fire on an upper floor. Findings informed the NFPA 1710 Technical Committee on the optimal crew size and total effective firefighting force for a first alarm assignment to a working high rise or other high hazard fire. The results also informed code provisions

in the 2009 International Building Code which require fire service access elevators in new construction over 120 ft. Santos was involved in the design of the study as well as the analysis of the results.

***Survey of General Purpose Law Enforcement Agencies.*** Sr. Sampling Statistician (2011-2014). This grant from the Bureau of Justice Statistics called for the design and implementation of a national survey of law enforcement agencies. Santos role in this research was to use data from the 2008 Census of State and Local Law Enforcement Agencies to conduct an analysis of alternative sample designs with the goal of developing a recommended approach that concurrently permits agency and officer level analyses with reasonable levels of statistical precision.

***National Metropolitan Rental and Sales Housing Market Discrimination Study: Discrimination against Blacks, Hispanics and Asians.*** Co-PI & Sr. Methodologist (2010-2013). This \$9M contract from HUD called for the design, conduct and analysis of a multi-site national study on discrimination among Blacks, Hispanics and Asians. A paired testing methodology was used in which white and minority testers respond to rental and sales ads and specific measures of their home seeking experience are used to develop estimates of differential treatment.

***Family and Neighborhood Interventions to Reduce Heart Disease Risk in East L.A.*** Methods Core Senior Scientist (2010-2015). Under this \$9M NIH Grant, the UCLA-USC Center for Population Health and Health Disparities conducted research to reduce cardiovascular disease risk among Latinos in East Los Angeles, California (East L.A.). East L.A. is an urban community with high rates of obesity-related chronic diseases, including heart disease, diabetes, hypertension and stroke. Santos served as the sampling statistician on one of three projects involving pre-post household surveys in comparison and treatment communities where the ‘treatment’ involves corner store makeovers. He also served on the overarching Research Methods Core to coordinate statistical design and methodology, instill innovation and ensure scientific rigor in all aspects of the research conducted under this grant.

***National Judicial Reporting Program (NJRP) Study Redesign.*** Sr. Statistician/Project Director (2009-2010). The U.S. Bureau of Justice Statistics conducts biennially the NJRP program to collect data on the sentences and characteristics of convicted felons. The purpose of the redesign effort was to examine alternative sampling and data collection methods can be adopted to increase the statistical rigor, precision and efficiency of the program. Santos oversaw all aspects of the re-design effort.

***State Courts Processing Statistics (SCPS) Study Redesign.*** Sr. Statistician/Project Director (2008-2009). The U.S. Bureau of Justice Statistics (BJS) conducts SCPS biennially to provide snapshots of felony defendants and their case processing characteristics in the seventy five most populous counties in the United States. The purpose of the redesign effort was to examine alternative sample designs, data collection approaches and content area expansions to increase the statistical rigor, precision and efficiency of the SCPS program. Santos oversaw all aspects of the sample re-design effort, addressing issues such as geographic coverage, stratification and optimal allocation, clustering effects from sampling counties, experimental panels and other methodological aspects of the overall research design.

***National Park Service Performance Benchmarks.*** Senior Methodological Advisor (2008-2009). The National Park Service (NPS) and Center for Parks Management (CPM) contracted the Urban Institute to identify appropriate types of benchmarks and suggest specific benchmark values for NPS performance measures relating to eight performance areas: Visitor satisfaction, safety and understanding; facility condition, employee safety, base labor and overhead.

***Firefighter Safety and Deployment Study – Statistical Support.*** Sr. Statistician & Methodologist (2007-2011). This represents a series of DHS funded grants involving statistical studies to examine the influence of staffing and equipment configurations to fire and EMS events on outcomes such as injury and/or property loss. UI was responsible for the statistical design and analyses, including the design and selection of a national stratified three-stage sample of Departments, Stations and events. UI was involved in the development of field protocols for the collection of data and the processing and analysis of the survey data. Regression analysis was used to explore how different staffing and equipment configurations influence fire and EMS outcomes.

***Statistical Support and Quality Assurance for the National Household Travel Survey – Statistical Support.*** Sr. Statistician & Methodologist (2008-2011). In collaboration with prime Battelle, UI provided ongoing statistical support on the sampling, data collection, data processing and weighting of the National Household Travel Survey. Tasks included the development and testing of a strategy for analytic weighting, review of the quality of the raw data, and review of final public use data and associated documentation.

***Services in support of the 2009 National Household Travel Survey.*** Sr. Statistician & Methodologist (2007-2008). The U.S. Department of Transportation’s Federal Highway Administration conducted a large scale national household survey of travel behavior in 2008-9. Part of the sample design involved the integration of an overall national study with numerous state-specific oversamples of households in order to provide efficient statistical estimates at both the national and state levels. UI provided sample design consultation for the development of an efficient national sample design that met the stated analytic objectives.

**Chafee Evaluation.** Statistician & Methodologist (2006-2008). The U.S. Department of Health and Human Services' (DHHS) Children's Bureau has contracted with the Urban Institute and its partners—the Chapin Hall Center for Children at the University of Chicago and the National Opinion Research Center—to conduct an evaluation of selected programs funded through the John Chafee Foster Care Independence Program (CFCIP). The goal was to determine the effects of Independent Living Programs funded under CFCIP in achieving key outcomes for participating youth including increased educational attainment, higher employment rates and stability, greater interpersonal and relationship skills, reduced non-marital pregnancy and births, and reduced delinquency and crime rates. This evaluation, using a random assignment design, was mandated by the Foster Care Independence Act of 1999.

**Children of Detained Immigrants of ICE Work Site Raids.** Methodologist (2006-2010). The Urban Institute conducted an extensive study to assess the plight of children with detained parents as a result of ICE enforcement activity including raids on work sites and homes in the U.S. Data collection included in-depth interviews by phone and in-person with community leaders, social service providers, immigration lawyers. In-depth interviews of caregivers of these children were conducted as well. Data collection was conducted in 2007 in a strategic, purposive sample of 5-6 sites where worksite enforcement raids had occurred. A second round of data collection was conducted in 2008-9 including an expansion to large urban sites.

**National Evaluation of the Court Improvement Program.** Statistician & Methodologist. (2006-2009) Funded by the Children's Bureau of the Department of Health and Human Services, this five year study assessed a program to improve state court oversight of foster care and adoption cases, and to identify effective models of juvenile and family court reform. Evaluations were conducted in state court systems of Texas, Delaware and Connecticut using state administrative data bases for analysis.

**HBCU-UP Evaluation.** Sampling Statistician & Methodologist (2005-2006) Under subcontract to the Urban Institute, NuStats conducted a survey of graduates from Historically Black Colleges and Universities (HBCUs) as part of a larger NSF-funded formal evaluation of the Historically Black Colleges and Universities Undergraduate Program (HBCU-UP). The survey involved sampling, tracking and conducting interviews with 1,500 HBCU graduates using a mixed mode mail/CATI methodology. The survey was one element of the summative evaluation component of the project. The larger evaluation project also included a process evaluation involving site visits and in-depth interviews of HBCU-UP faculty and administrators.

**Populations, Activity and Emissions of Diesel Nonroad Equipment.** Sr. Statistician & Methodologist (2006-2010). This research focused on the environment. It involved a pilot test of new methodology that merged sample surveys with equipment instrumentations to measure the total gaseous and particulate matter emissions from off-road vehicles in EPA Region 7; UI was responsible for statistical design, specification of methodology, and technical advice on post survey data processing and analysis.

**National Educational Technology Trends Study.** Survey Methodologist (2004-2006). This study required the design of a sampling plan for the National Educational Technology Trends Study (NETTS). Funded by the U.S. Department of Education, NETTS examined the implementation of the Enhancing Education Through Technology Program (EETT). The study included both qualitative (case study) and quantitative (survey) research components. Santos designed the sampling plan for national surveys of districts and teachers. The design utilized an innovative integration of three nested sample surveys (via three stage sampling of districts, schools and teachers). The survey data examine how EETT funding was used by districts and by teachers to embed technology into curricula and instruction.

#### **EARLIER PROJECT EXPERIENCE (SELECTED, SINCE 2000)**

**Returning Home: Understanding the Challenges of Prisoner Reentry -- Texas.** Project Director and Survey Methodologist (2004-2006). This study was aimed at developing a deeper understanding of the reentry experiences of returning prisoners, their families, and their neighborhoods. The study also included prisoner's family members and the neighborhoods into which the prisoners are released. It was sponsored by the Urban Institute with support from the Texas Department of Criminal Justice, the Houston Endowment, and the JEHT Foundation. Under this study, prisoners of Texas correctional facilities were interviewed in person just prior to their release (n=650), two months after release (n=500), and again 10-12 months after release. (n=375). Finally, 425 family members of prisoners are interviewed via mixed mode telephone/personal interview. Contract amount: \$1.1 million.

**National Health Insurance Study.** Project Director & Survey Methodologist (2004-2006). Sponsored by the Kaiser Family Foundation, national and state specific surveys of populations with annual incomes below 200 percent of the federal poverty level were conducted. The study required the development and implementation of a robust sampling plan for difficult to reach populations using techniques to insure a representative sample. The survey focused on

access to care, barriers to care, utilization of private, federal and state health plans, and health status. Over 6,500 telephone interviews were obtained from approximately 53,000 screened households. Contract amount: \$700,000

***EPA Kansas City Emissions Testing Study***, Sr. Sampling Statistician, (2004 – 2005). This benchmark study sought to characterize the distribution of Particulate Matter (PM) emissions in a randomly selected fleet of gasoline vehicles to better evaluate the contribution of gasoline high emitters to ambient PM concentrations. The data was to be used by EPA to update and evaluate mobile source emissions models (MOBILE6 and MOVES). This seminal study incorporated random sampling of households in the KC area and recruitment of vehicles from those households to centralized emissions testing facilities. Santos developed, tested and implemented the recruitment sample design and field protocols. The resulting methodology should influence how future emissions testing studies conducted by EPA.

***World Trade Center Tragedy Survey of Survivors***. Sampling Statistician & Survey Methodologist (2003-2004). NuStats served as the survey research provider to the National Institute of Standards and Technology (NIST) in its study of the behavior of World Trade Center (WTC) occupants and first responders, documenting factors facilitating and impeding egress of survivors from the time the buildings were struck on 9/11/01 to the time they exited the towers. Developed sample design for CATI study, qualitative design for in-depth personal interviews, weighting processes, estimates of population coverage and sampling error, etc. Santos also headed the institutional review board (IRB) approval process.

***Survey of High School Students in an Evaluation of the Texas Top Ten Legislation***, Project Director and Survey Methodologist (2001-2005). Funded by the Ford Foundation, this \$2 million subcontract from Princeton University involves a longitudinal survey of 34,000 high school students in the state of Texas to examine the impact of the Top Ten Rule on high school student decision making about college attendance. In-class self administered surveys were completed by sophomores and seniors in a sample of 108 Texas high schools. A subsample of 6,000 seniors was followed-up by telephone one year after the students d their high school attendance. A subsample of 2,000 Sophomores was be followed in 2004, and a follow-up of 5,400 seniors is being conducted in 2005-2006. Santos served as project director through 2003, and now is sampling statistician and survey methodologist on the project.

***Bureau of the Census Task Order Contract***, Project Director (2002-2005). Santos supported the Census Bureau's planning and development efforts by providing quick turnaround advisory and assistance services in methodological research in six major areas. These include questionnaire design, facilitating cooperation and participation in the census itself, achieving high response rates in areas where response rates are often low, innovative use of computer technology, multiple use of administrative records in surveys (from their use as sampling frames, to replacing missing data, supplementing questionnaire data, or estimating coverage errors), and finally consulting on issues of privacy: the public's concerns about the confidentiality of the census data.

***Integrated Studies of Educational Technology***, Project Statistician & Methodologist (2000-2001). Under this subcontract to SRI, a Department of Education task order called for the integration of three studies – a school level formative evaluation of the E-Rate program; a study of teacher development in technology area; and a district study of the TLFC program. Santos designed the integrated samples of districts, schools and teachers so that the samples were nested and therefore provided additional auxiliary information at each level of analysis.

#### **BOOKS (CONTRIBUTED AS PANEL/COMMITTEE MEMBER)**

Committee to Evaluate the Department of Veterans Affairs Mental Health Services (2018) *Evaluation of the Department of Veterans Affairs Mental Health Services*. Washington, DC: The National Academies Press. doi: <https://doi.org/10.17226/24915>.

Panel on redesigning the BLS Consumer Expenditure Survey (2013) *Measuring What We Spend: Toward a New Consumer Expenditure Survey*, The National Academies Press, Washington DC.

Committee on Social Security Representative Payees, National Research Council (2007) *Improving the Social Security Payee Program: Serving Beneficiaries and Minimizing Misuse*, The National Academies Press, Washington DC.

#### **PAPERS AND PRESENTATIONS**

Bernstein, H. *et al.* Recently Resettled Refugees and their Experience with the Annual Survey of Refugees, Annual Conference of the American Association for Public Opinion Research, Denver, CO, 2018.

Santos, R. "AAPOR Presidential Address: Borne of a renaissance – a metamorphosis for our future," *Public Opinion Quarterly*, Vol. 78, No. 3, Fall 2014, pp. 769-777.

Santos, R. "The use and value of federal statistics to AAPOR," invited presentation to the Third Quarterly Meeting of COPAFS, Washington, DC, December 2013.

- Santos, R. "Thoughts on Innovative Approaches for Sampling Special Populations," Invited discussant, Federal Committee on Statistical Methodology Conference, Washington, DC 2013.
- Santos, R. "A Framework for Statistical Inference from Nonprobability Samples," Presentation at the 67<sup>th</sup> Annual Conference of the American Association for Public Opinion Research, Orlando, FL, 2012.
- Pastor, R. A., Santos, R., Stoilov, V. Voting and ID requirements: A survey of registered voters in three states. *The American Review of Public Administration*, Vol. 40, No. 4, pp. 461-481, July 2010.
- Santos, A., Contrino, H., and Santos, R. Immigrant Travel Characteristics in the 2008 National Household Travel Survey. Presentation at the American Association for Public Opinion Research Conference, Hollywood, FL, 2009.
- Santos, R. "Sampling & Design Issues in Community Based Participatory Research: A Workshop." 5th Annual Summer Institute, Family Research Consortium, New Orleans, LA, 2008.
- Santos, R. "Exploring Statistical Inferences from Web-Based Surveys: How Does It Work?" Presentation at the American Association for Public Opinion Research Conference, Anaheim, CA, 2007.
- Capps, R., *et al*, Impacts of Recent Immigration Worksite Enforcement Actions on Children, Families and Communities. Presentation at the National Council de la Raza Annual Meeting, Miami, FL 2007.
- Santos, R. "Oversampling AAPI Populations in Federal Health Surveys." Invited presentation at the Asian Health Brain Trust Conference, Washington, DC, 2007.
- Paasche, J., and Santos, R. Investigating Non-Response Bias: An Analysis of Early, Mid- and Late Responders in a Panel Survey of Texas High School Students. Presentation at the American Association for Public Opinion Research Annual Conference, Montreal, Canada, 2006.
- Santos, R. Community Participation and Community Benefit in Health Survey Research – An Alternative Perspective. In *Eighth Conference on Health Survey Research Methods*, Cohen, SB and Lepkowski, JM, eds., Hyattsville, MD: National Center for Health Statistics, DHHS Publication No. (PHS) 04-1013, 2004.
- Santos, R. and Dehr, P. Methodological and Analytic Issues in Multi-Level Studies of Quality and Cost of Health Care, invited paper presented at the Conference entitled Penetrating the 'Black Box': Mechanisms for Enhancing Healthcare Efficiency and Clinical Effectiveness, Seattle, Washington, October, 2002
- Santos, R. "*Racial and Ethnic Populations: Cross-Cultural Considerations in Health Survey Research - A Discussion, in Proceedings of the 7th Conference on Health Survey Research Methods.*" DHHS Publications No. (PHS) 01-1013, pp. 105-110, 2001.
- Santos, R. "*Putting It All Together: Concluding Remarks.*" Invited speaker at workshop entitled "Inclusion of Language Minority Populations in National Studies: Challenges, Opportunities, and Best Practices" sponsored by NIA and NICHD, DHHS, Washington, DC, 2000.
- Santos, R. "*Not Asked or Not Answered: Multiple Imputations for Multiple Surveys.*" Comment for Journal of the American Statistical Association, Vol. 93, No. 443, September 1998.
- Santos, R. "*Are we getting the right answers; are we asking the right questions?*" Invited panel member, Joint Statistical Meetings, Dallas, TX, 1998.
- Santos, R. "*Book Review of Designing Surveys: A Guide to Decisions and Procedures.*" Public Opinion Quarterly, Thousand Oaks, CA: Pine Forge Press, Volume 6, Number 2, 1997.
- Santos, R. "*Some thoughts on feasibility, costs and strategies of ethnic oversampling for the General Social Survey.*" Invited paper presented at the Beyond Black and White Conference, Washington, DC, February, 1996.
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- Santos, R. "*Organizational structures and management issues.*" Presentation at the 1995 International Field Directors and Technologies Conference, Fort Lauderdale, FL, 1995.
- Scott, L.J., Pennell, B.E. and Santos, R. "*Developing an effective multi-cultural workplace in the survey research setting.*" Presentation at the 1994 Field Directors/Technologies Conference, Boston, MA, 1994.
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- Santos, R. and Kessler, R. "The National Survey of Health and Stress." Presentation at the Joint Statistical Meetings, Survey Research Methods Section, Boston, MA, 1992.
- Santos, R. and Pennell, B.E. "A multi-faceted approach to improving response rates in sample surveys." Presentation at the American Association for Public Opinion Research Conference, 1992.
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#### **SELECTED RESEARCH BRIEFS & REPORTS**

- Scott, M., Diby, S., Santos, R. Pathways for Community Voices: Building Feedback Loops with Clients of Charitable Food Assistance, Urban Institute, Washington, DC. May, 2018.
- McClure, D., Santos, R., Kooragayala, S. Administrative Records in the 2020 US Census: Civil Rights Considerations and Opportunities, Urban Institute, Washington, DC. May, 2017.
- Levy, D., Wissoker, D., Aranda, C., Howell, B., Pitingolo, R., Sewell, S., Santos, R. A Paired-Testing Pilot Study of Housing Discrimination against Same-Sex Couples and Transgender Individuals, Urban Institute, Washington, DC. June 2017.
- Santos, R., Turner, M. A., Aron, L., Howell, B. Future Directions For Research On Discrimination Against Families With Children In Rental Housing Markets. Washington, DC: U.S. Department of Housing and Urban Development. December, 2016.
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- Kishan, S., Fincher, S., Sabisch, M., Santos, R., Zmud, M., Sen, S., Amen, S. Ensfield, C. (2010) Populations, Activity and Emissions of Diesel Nonroad Equipment in EPA Region 7, Final Report, EPA Contract # EP-C-06-080, Oct 19, 2010.
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- Chaudry, A., Capps, R., Pedroza, Juan M., Castaneda, R. M., Santos, R., and Scott, Molly M. *“Facing our future: Children in the aftermath of Immigration Enforcement.”* The Urban Institute, February 2010.
- Cosentino de Cohen, C., Clewell, B., Mancini, C, and Santos, R., Evaluation Design of the National Science Foundation LSAMP Bridge to Doctorate Initiative, The Urban Institute, 2008.
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- Pastor, R., Santos, R., Prevost, A., Gueorguieva, V., *Voter IDs Are Not the Problem: A Survey of Three States*, Center for Democracy and Election Management, American University, 2008.
- Panel to Assess the Benefits of the American Community Survey for the NSF Division of Science Resources Statistics (R. santos, member). *Using the American Community Survey for the National Science Foundation's Science and Engineering Workforce Statistics Programs*. National Research Council, 2008.
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- Santos, R., et al. "*A methodological report on the 1990 Small Business Benefits Study.*" Survey Research Center, Ann Arbor, MI, 1991.
- Santos, R., Rahe, C. and Shinefeld, A. "*A methodological report on the Latino National Political Survey.*" Survey Research Center, Ann Arbor, MI, 1991.
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- Clayton, R.R., et al. "*National Household Survey on Drug Abuse: Main Findings 1985.*" U.S. Department of Health and Human Services, National Institute on Drug Abuse, Rockville, Maryland, 1988.
- Santos, R. and LoSciuto L. "*National Household Survey on Drug Abuse: population estimates 1985.*" U.S. Department of Health and Human Services Publication No. (ADM) 87-1539, 1987.
- Santos, R. and Lazaro, C.G. "*Assessing effects and plausibility of asset imputation in the New Beneficiary Survey.*" Institute for Survey Research, 1987.
- Santos, R. "*Final report on the feasibility study of a survey of Latino immigrants.*" Institute for Survey Research, 1986.
- Santos, R. "*A Sampling Report on the New Beneficiaries Survey.*" Institute for Survey Research, 1984.
- Walbridge, R.H. and Santos, R. "*PCB regulation compliance and prediction of violation.*" Institute for Survey Research, 1983.
- Santos, R. "*Effects of imputation on complex statistics.*" Survey Research Center, Ann Arbor, MI, 1981.
- Kalton, G. and Santos, R. "*Sampling error estimation for the 1979 Income Survey Development Research Panel.*" Survey Research Center, Ann Arbor, MI, 1981.

#### **SELECTED SAMPLE DESIGNS**

- Annual Survey of Refugees, HHS, 2016-2019
- Hunger in America Survey, 2014
- Housing Discrimination Studies among: Voucher holders, 2014; Families with Children, 2013; Disabled, 2013; Minorities, 2012.
- Survey of General Purpose Law Enforcement Agencies, 2011
- NIST Firefighter Safety and Deployment Study, 2008
- 2009 National Household Travel Survey -- National sample portion of the, 2008
- National Health Insurance Study, 2005
- Dept. of Education National Educational Technology Trends Survey, 2004
- Survivors of the World Trade Center Tragedy, 2003
- Survey of Physicians and Physician Practices, 2001
- Housing Discrimination Study, 2000
- Dept. of Education Integrated Survey of Educational Technology, 2000
- BJS National Survey of Indigent Defense Systems, 1998
- Latino National Political Survey, 1989
- National Survey of Adolescent Males, 1988
- National Survey of Families and Households, 1987
- Survey of Puerto Rican Elders, 1986
- National Survey of Children's Behavior, 1986
- Survey of Male Puerto Rican Adolescents in New York City, 1985

National Household Survey on Drug Abuse, 1985  
Survey of Young Puerto Rican Women in New York City, 1985  
National Alcohol Survey, 1984  
National Survey of Unmarried Young Women, 1982  
New Entrants Survey, NSF, 1985, 1983, 1982  
New Beneficiary Survey, 1982  
National Chicano Survey; SRC, Ann Arbor, MI., 1977

#### **CONSULTING CLIENTS**

MALDEF, 2018  
Feeding America, Chicago, IL, 2004-present  
Mathematica Policy Research (WebMD Panel Technical Advisory Group), 2015-2016  
Educational Testing Service (2013-2016)  
Temple University Institute for Survey Research, 2010-2012  
ICF International, 2012  
Research Triangle Institute, 2009-2010  
NORC, University of Chicago, 2009  
Chesapeake Research Associates, 2009  
Arbitron, 2008  
VoteWatch (aka Election Science Institute), San Francisco, CA 2004-2005  
Knowledge Networks (aka InterSurvey), 2000  
Bureau of Labor Statistics, Puerto Rico Department of Labor, 2000  
Anchor Study, University of California, Santa Cruz, 1994  
Hispanic Research Center, Fordham University, 1990  
Transnational Family Research Institute, Palo Alto, California, 1988  
Survey Design & Analysis, Inc., Ann Arbor, Michigan, 1986  
Southwest Voter Research Institute, San Antonio, Texas, 1986-1989  
National Institute of Mental Health, 1985  
Southwest Voter Registration Education Project, San Antonio, Texas, 1981-1986  
Integral Research, Inc., New York, New York, 1984-1985  
Public/Private Ventures, Inc., Philadelphia, Pennsylvania, 1983-1985  
M.D. Anderson Hospital and Tumor Institute, Cancer Prevention Unit, Houston, Texas, 1981-1982  
Michigan Bell, Detroit, Michigan, 1981

#### **PROFESSIONAL SERVICE & AFFILIATIONS**

NCHS Board of Scientific Counselors, National Center for Health Statistics, Centers for Disease Control, 2017-2020.  
Technical Advisory Group, Feeding America, 2004-present.

***American Statistical Association:*** Vice-President, 2015-2017, Task Force on Sexual Harassment and Assault, 2017-2018; Social Statistics Section: Chair, 2013-2015; Media Training Task Force, Chair, 2015-2017; Accreditation Committee, 2010-2016; Council of Sections Representative, 2010-2011; Program Chair, 1999-2000; Washington Statistical Society Board of Directors: Representative at Large, 2009-2011; Scientific and Public Affairs Advisory Committee, 2007-2009; Nominations Committee, 2007-2008 (chair, 2008); Committee on Career Development 1996-

2001 (Chair, 1999-01); Committee on Minorities in Statistics, 1981-86, 1988-94, 1999-2004; Committee on Privacy and Confidentiality, 1993-1997; Program Chair, Survey Research Methods Section, 1993.

**American Association for Public Opinion Research:** President, 2012-15; Nominations Committee, 2018; Conference Program Chair, 2010-2011, Diversity Coordinating Committee, 2016-2018; AAPOR Award Committee, 2009; Innovator's Award Committee, 2006, Policy Impact Award Committee, 2006, Member, Student Paper Awards Committee, 2005-2006; Chair, Bylaws Committee, 2003-04; Secretary-Treasurer, 2000-02; President of the Washington, DC, AAPOR Chapter, 1999-2001

**National Assessment of Educational Progress (NAEP) Questionnaire Standing Committee,** member, 2013-16, Educational Testing Service.

**Editorial Board:** *Public Opinion Quarterly*, 1996 – 2003; 2009-2013

**National Academies Appointments:**

Committee to Evaluate the Department of Veterans Affairs Mental Health Services, National Academies of Science, Institute of Medicine, 2013-2016

Panel on Addressing Priority Technical Issues for the Next Decade of the American Community Survey, National Research Council, National Academies of Science, Committee on National Statistics, 2012-2014.

Transportation Research Board Committee: Using Census Data for Transportation Applications: A Conference, National Research Council, National Academies, 2011-2012.

Panel Member on NCHRP 08-79: Identifying Credible Alternatives for Producing 5-year CTPP Data Products from the ACS: National Academies Transportation Research Bureau, 2009-2011.

Using National Household Travel Survey (NHTS) Data for Transportation Decision Making, National Research Council, 2009-2010.

Steering Committee for Review of Confidentiality Criteria for Survey of Earned Doctorate Data, National Academies' Committee on National Statistics, 2009.

Panel on Assessing the Benefits of the American Community Survey for the NSF Survey of College Graduates: National Academies' Committee on National Statistics, 2007-2008.

External Advisory Committee, Program in Survey Methodology, Univ. of Michigan, Ann Arbor, 2003-2008.

Panel member, Committee on Social Security Representative Payees, Nat. Academies of Science, 2005-2007.

Census Advisory Committee of Professional Associations, Census Bureau, member, 2001-2006; chair, 2004.

Lecturer on survey sampling and statistics; Rice University Summer Institute of Statistics (RUSIS), 2005.

Election Science Institute, Scientific Advisory Board, member, 2003-2004.

Committee to Review the Scientists and Engineers Database System (SESTAT) 2000 Decade Design, National Academy of Sciences, 2002-2003.

Nat. Academy of Sciences, Exploratory Mission to Review Special Income Surveys of Puerto Rico, 1998-1999

**Study Section:** Agency for Health Research and Quality (AHRQ), Health Systems Research Study Section, 1993-1999

**Scientific Advisory Board,** National Survey of African American Mental Health, Institute for Social Research, University of Michigan, Ann Arbor, 1999-2004

**REFEREE FOR:**

International Statistical Review

American Journal of Public Health

Journal of the American Statistical Association

Statistical Science

Journal of Official Statistics

Health Services Research

John Wiley & Sons, Inc.

Public Opinion Quarterly

Journal of Business & Economic Statistics