

ALEXIS SANTOS (SANTOS-LOZADA)

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EDUCATION

2015 Ph.D., Applied Demography, University of Texas at San Antonio
2012 M.A., Economics, University of Puerto Rico, Río Piedras
2010 B.A., Economics *Cum Laude*, University of Puerto Rico at Cayey - Minor in Statistics (2012)

ACADEMIC POSITIONS

2018- Assistant Professor of Human Development and Family Studies (Starting Fall 2018)
Pennsylvania State University

2015-18 Director of Graduate Studies in Applied Demography
Pennsylvania State University

2015-18 Assistant Teaching Professor in Sociology
Pennsylvania State University

AFFILIATIONS

2018- Research Associate, Center for Healthy Aging, Pennsylvania State University
2016- Research Affiliate, Population Research Institute, Pennsylvania State University
2016-18 Masters Program in Geographic Information Systems, Pennsylvania State University
2015-17 Postdoctoral Fellow, United States Army Institute for Surgical Research
2012-15 Graduate Research Assistant, University of Texas at San Antonio

PROFESSIONAL EXPERIENCE

2013 Principal Researcher for the Group Quarter Population Report, Puerto Rico Institute of Statistics
2013 Policy Consultant for Health, Vaccination and Pharmaceutical Products in Policy Wisdom, LLC

AREAS OF INTEREST

Applied Demography, Estimates and Projections, Race/Ethnicity and Health, Health Disparities, Biodemography and Mortality, Environmental Demography, Public Policy, Multilevel Models, Spatial Demography, Military Health

PUBLICATIONS

1. **Santos-Lozada, Alexis R.** and Howard, Jeffrey T. Forthcoming. Using allostatic load to validate self-rated health for racial/ethnic groups in the United States. *Biodemography and Social Biology*.
2. **Santos-Lozada, Alexis R.** (2018). Counting deaths and making deaths count: why getting the number right matters for public policy. *Health Affairs*, Vol. 37, No.4, pp. 520-522. . *Covered by BBC London News, "More or less" (BBC Radio Program), WTOP-FM (Washington, D.C., "to your health series" by Dimitri Sotis), Axios Newsletter.
3. **Santos-Lozada, Alexis R.** and Daw, Jonathan. 2018. The Contribution of Three Dimensions of Allostatic Load to Racial/Ethnic Disparities in Poor/Fair Self-Rated Health. *SSM – Population Health*, Vol. 4, pp. 55-65. ***Population Research Institute-Publication of the Week (March 12, 2018)**
4. Howard, Jeffrey T., Kotwal, Russ S., **Santos-Lozada, Alexis R.**, Martin, Matthew J. and Stockinger, Zsolt T. 2018. Re-Examination of a Battlefield Trauma Golden Hour Policy. *Journal of Trauma and Acute Care Surgery*. Vol. 84 (1), pp. 11-18. ***Editor's Choice**

5. **Santos-Lozada, Alexis R.** and Martínez, Matthew J. Forthcoming. How are you? or ¿Como estás?: Does language of interview influences self-rated health among Hispanic subgroups? *Journal of Immigrant and Minority Health*. *Population Research Institute-Publication of the Week (June 12, 2017)
6. Richards, Reg, Parry, Ingrid S., **Santos-Lozada, Alexis R.** and Dewey, W. Scott. 2017. Burn Hand/Finger Goniometric Measurements: Sum of the Isolated Parts not equal to Composite Whole. *Journal of Burn Care & Research*, Vol. 38 (6), pp. e960-e965.
7. Richards, Reg and **Santos, Alexis R.** 2017. Burn patient acuity demographics, scar contractures and rehabilitation treatment time related to patient outcomes: The ACT Study. *Journal of Burn Care & Research*, Vol. 38(4), pp. 230-242.
8. Richards, Reg; **Santos-Lozada, Alexis R.**, Dewey, W. Scott and Chung, Kevin K. 2017. Profile of Patients Without Burn Scar Contracture Development. *Journal of Burn Care & Research*, Vol. 38 (1), e62-e69.
9. **Santos-Lozada, Alexis R.** 2016. Self-rated mental health and race/ethnicity in the United States: Support for the Epidemiological Paradox. *PeerJ* 4:e2508.

PEER-REVIEWED ABSTRACTS PUBLISHED

1. **Santos-Lozada, Alexis R.** 2016. Competing regression models for the study of population growth for U.S. counties: Spatial or non-spatial? *Papers and Proceedings of the Applied Geography Conference* (ISSN 0747-5160)
2. **Santos, Alexis** and Richards, Reg. 2016. Comparison of the National Burn Repository (NBR) to the Acuity, Contracture, Time (ACT) Database. Supplement to *Journal of Burn Care & Research* (May/June 2016), Vol. 37 (3), p. S.190.
3. Richards, Reg and **Santos, Alexis R.** 2016. Profile of Patients Without Burn Scar Contracture Development. Supplement to *Journal of Burn Care & Research* (May/June 2016), Vol. 37 (3), p. S120.

TECHNICAL REPORTS

1. **Santos-Lozada, Alexis R.** County-level life expectancy differentials in Puerto Rico, 2010. Working paper under review for publication in the Working Paper Series for the Puerto Rico Institute of Statistics.
2. **Santos-Lozada, Alexis R.** and Velázquez-Estrada, Alberto. The Population Decline of Puerto Rico: An Application of Prospective Trends in Cohort-Component Projections. [Working Paper 2015-1](#) for the Puerto Rico Institute of Statistics.

PROFESSIONALLY REVIEWED ESSAYS

1. **Santos-Lozada, Alexis R.**, Matthews, Stephen A. and DeJong, Gordon F. Training Paradigms in Applied Demography. [PAA Affairs](#) (Summer 2017).

UNDER REVIEW

1. Hauer, Mathew and **Santos-Lozada, Alexis R.** Climate change could reduce life expectancy by one year. (Available through [SocArXiv](#), Under review in Nature Climate Change)
2. Noah, Aggie and **Santos-Lozada, Alexis R.** Your Body Can't Lie: Health Convergence Patterns in Allostatic Load among Foreign-born Hispanics are More Pronounced in Men than in Women. (Revise and Resubmit, *Women's Health Issues*)
3. **Santos-Lozada, Alexis R.** Patterns of physiological dysregulation among U.S. Adults: A Latent Class Analysis (Revise and Resubmit, *Biodemography and Social Biology*)

WORKS IN PROGRESS

1. **Santos-Lozada, Alexis R.** and Howard, Jeffrey T. Estimates of excess deaths in Puerto Rico following Hurricane María. (Available through [SocArXiv](#)) *Covered by *New York Times*(x2), *CNN* (x3), *Vox* (x2), and *CBS News*, *ABS News*, *El Nuevo Día* and over 20 other media outlets and blogs. **Most read pre-print in SocArXiv for November 2017. ***For a complete list, visit <http://sites.psu.edu/prdiasporastudy>.
2. **Santos-Lozada, Alexis R.**, Verdery, Ashton M., Monroe, Burt L. Up to 6.6 million at risk of not being counted in the 2020 Census (Results available)
3. **Santos-Lozada, Alexis R.** Estimates of excess passenger flow in Puerto Rico following Hurricane María. Available through [SocArxiv](#). *Covered by the Washington Post.
4. **Santos-Lozada, Alexis R.** and Pérez-Rivera, Danilo T. No lies, or dammed lies, just statistics: lessons from Puerto Rico.
5. Demographic and Economic Structures, Family Composition and Excess Deaths following Hurricane María in Puerto Rico (In collaboration with Skye Niles)
6. **Santos-Lozada, Alexis R.**, Aguilar, Diego L., Daw, Jonathan, and Howard, Jeffrey T. The Contribution of Three Dimensions of Allostatic Load to Racial/Ethnic differences in Mortality in the United States.
7. **Santos-Lozada, Alexis R.**, Aguilar, Diego L., Daw, Jonathan and Howard, Jeffrey T. The Contribution of Three Dimensions of Allostatic Load to Racial/Ethnic differences in Cause-Specific Mortality in the United States.
8. **Santos-Lozada, Alexis R.** Urban-Rural differences in allostatic load among adults in the United States.
9. **Santos-Lozada, Alexis R.** Does allostatic load mediate the nonmetropolitan mortality penalty among adults in the United States?
10. **Santos-Lozada, Alexis R.** Hispanic-White disparities in Self-Rated Health: Implications of Language of Interview for Understanding the Latino Health Puzzle. (Preparing for resubmission after first review).
11. **Santos-Lozada, Alexis R.** Allostatic Load Accelerates Time-to-Death among U.S. Adults. (Preparing for resubmission)
12. **Santos-Lozada, Alexis R.** and Ramírez-Smith, Daniel N. Future population structure, obesity prevalence and healthcare costs in Spain 2016-2031. (Preparing for resubmission after first review)
13. Patterson, Sarah E. and **Santos-Lozada, Alexis R.** Caregiving received by older adults in Puerto Rico. Manuscript available.

SELECTED PROFESSIONAL PRESENTATIONS (*Denotes an invitation to present)

- 2018* American Sociological Association, Philadelphia, PA
- 2018* Texas Demographic Conference, Austin, TX (Environmental/Climate Disasters Demography)
- 2018 Population Association of America, Denver, CO (with Matt Hauer)
- 2018 American Association of Geographers, New Orleans, LA (with Rickey "Ric" Stamm)
- 2017 Symposium for Teaching and Learning with Technology, State College, PA
- 2017 Population Association of America, Annual Meeting, Chicago IL (with Daniel N. Ramírez-Smith)
- 2016 Applied Geography Conference, Louisville KY
- 2016 Population Association of America, Annual Meeting, Washington DC (with R. Harris and Matt Martínez)
- 2015 Population Association of America, Annual Meeting, San Diego CA
- 2014 Population Association of America, Annual Meeting, Boston MA
- 2014 Applied Demography Conference, Biennial Meeting, San Antonio TX
- 2013 Population Association of America, Annual Meeting, New Orleans LA
- 2012 RCMi International Symposium on Health Disparities, San Juan PR

GRADUATE STUDENT ADVISOR OR THESIS COMMITTEE MEMBERSHIP

* Expected year of completion for the student

** Student in the M.S. Program in Demography at the University of Puerto Rico

Name	Degree	Year	Role	Topic
Kevin Sadowski	M.GIS	December 2018*	Chair	Housing Markets
Rickey "Ric" Stamm	M.GIS	May 2018	Chair	Children food insecurity
Diego N. Caraballo	M.S	December 2017	Member	Mortality and Health**
Wayne Ki Frad	M.GIS	December 2016	Chair	Spatial Epidemiology

INVITED PRESENTATIONS

- 2018 **Santos-Lozada, Alexis R.** Leveraging Social Media and Diasporas to collect information following climate disasters: the case of Puerto Rico. Graduate Student Methodology Workshop in Hard to Reach Populations, Population Research Institute.
- 2018 **Santos-Lozada, Alexis R.** Deaths and suicide in Puerto Rico following Hurricane María. Presentation for the San Juan Bautista Medical School - Symposium on Resiliency following an Environmental Disaster.
- 2018 **Santos-Lozada, Alexis R.** County-level excess deaths in Puerto Rico following Hurricane María. Lamento Borincano: Puerto Rican Sites of the Catastrophic, 1968/2018 at Princeton University.
- 2017 **Santos-Lozada, Alexis R.** Deaths in Puerto Rico following Hurricane María: a public health issue. Presentation for the Demography Program at the University of Puerto Rico - Medical Sciences Campus.
- 2017 Patterson, Sarah E. and **Santos-Lozada, Alexis R.** Caregiving Received by Older Adults in Puerto Rico. Family Demography Working Group Brownbag, Population Research Institute.
- 2013 **Santos-Lozada, Alexis R.** and Marazzi, Mario. Annual Group Quarter Population Report: Establishment and Implementation in Puerto Rico. Presentation at the Federal-State Cooperative for Population Estimates.

GRANTS*External Funding*

- 2016 Loan Repayment Grant, National Institutes of Health (Not funded)
- 2015 Conference Organization Grant, Puerto Rico Institute of Statistics (\$75,000)
- 2013 Conference Organization Grant, Puerto Rico Institute of Statistics (\$30,000)

Internal Funding

- 2015- Population Research Institute – Funding for PAA Participation
- 2017 Funds for the *Puerto Rico Diaspora Study*, Pennsylvania State University
- 2015-16 Open Access Publication Grant, University Libraries, Pennsylvania State University

TEACHING EXPERIENCE*Pennsylvania State University courses*

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| Applications in Applied Demography (Spring 2018) | Graduate course, Co-Teaching with Dr. Nicolás Sacco |
| Public Sector Demography (Spring 2018) | Graduate course |
| Seminar in Biodemography (Spring 2018) | Guest Lecturer for Dr. Jonathan Daw (Biomarker Workshop) |
| Demography Colloquium (Fall 2017) | Guest Lecturer for Dr. Stephen Matthews (Mentoring) |
| Principles of Demography (Fall 2017) | Graduate course |
| Demographic Techniques (Fall 2017) | Graduate course |

COURSE DEVELOPMENT*Pennsylvania State University*

- 2016-17 Demography, Data and G.I.S. (APDEM 802, Collaboration with other resources)
- 2015-16 Demographic Techniques (SOC 573)
- 2015-16 Principles of Demography (APDEM 801)

PROFESSIONAL WORKSHOPS

- 2016 Probabilistic Population Projections: Theory and Practice, University of Washington
- 2015 The Data Scientist's Toolbox, Data Science Program, Johns Hopkins University
- 2015 Formal Demography Workshop, University of California-Berkeley

AWARDS AND RECOGNITIONS

- 2018 TRIO Programs in Puerto Rico - TRIO Triunfador Award for High Achievements with a PhD
- 2015-17 Oak Ridge Association of Universities Research Fellowship
- 2015 Carlos and Malú Alvarez Award, University of Texas at San Antonio (\$1,000)
- 2012-15 Professional Development Award, University of Texas at San Antonio (\$400, each year)
- 2013 Honors Mention for PhD Paper Competition, University of Texas at San Antonio
- 2010 Economics Program Medal, University of Puerto Rico at Cayey
- 2010 Recognition by the Academic Senate for Collaboration as Academic Senator
- 2009 Recognition by the Academic Senate for Collaboration with Library Services
- 2006 Puerto Rico House of Representatives Medal of Achievement

PROJECTS

1. *Health Status and Migration among Puerto Ricans displaced by Hurricane María.*
Santos-Lozada, Alexis R. (Principal Investigator) and Verdery, Ashton M. (Co-Principal Investigator)
2. *Puerto Rico Congregation Study - Post-Hurricane María*
Santos-Lozada, Alexis R. (Principal Investigator) in collaboration with Dr. Yeris Mayol-García (U.S. Census Bureau) and Dr. Doris García-Rivera (Evangelical Seminary of Puerto Rico).
3. *Puerto Rican Diaspora in the Aftermath of Hurricane María.*
Santos-Lozada, Alexis R. (Principal Investigator) Available in (sites.psu.edu/prdiasporastudy)

PROFESSIONAL, UNIVERSITY AND DEPARTMENTAL SERVICE

Demography Program

- 2017- Judge and Discussant for the Annual Mini PAA Conference

Department of Sociology and Criminology

- 2017-18 Member, Social Committee
- 2016-18 Member, Diversity Promotion Committee
- 2015-18 Member, Online Education Committee

Pennsylvania State University

- 2015- Online Directors of Graduate Studies, College of the Liberal Arts
- 2015- Coordinators of Online of Online Learning and Teaching (C.O.L.T.)
- 2017- Judge for the Graduate Exhibition (Poster Session)
- 2016-17 Commission on Racial/Ethnic Diversity (CORED)

University of Puerto Rico at Cayey

- 2013 Judge for Research Symposium
- 2010 Presidential Search Committee for the University of Puerto Rico
- 2009-10 Acting President, Student Government
- 2008-09 Academic Senator
- 2006-09 Executive Secretary, Student Government
- 2008 Acting Administrative Board Representative
- 2007 Acting University Board Representative
- 2006-07 Freshman Delegate, Student Government

Population Association of America

- 2017-18 Program Committee for the Annual Meeting (Denver, CO)
- 2018 Discussant, Population Projections and Forecasts Session, Annual Meeting (Denver, CO)
- 2017 Chair, Estimation and Projections Session, Annual Meeting (Chicago, IL)

American Burn Association
2017-19 Research Committee

Funding secured for Ph.D. Candidates in collaboration with the Applied Demography Program

Name	Project	Year
Erik Hernández	Course Reviews for Business Demography	2017
Cassie McMillan	Course Reviews for Health Sector Demography	2017
Michael Martin	Course Reviews for Data and GIS, and Demography	2017
Daniel Ramírez	Course Reviews for Demographic Techniques	2017
Erik Hernández	Development of course content for Social Demography	2016
Daniel Ramírez	Development of case studies for Social Demography	2016

Mentoring experience

Name	Project	Year	Project
Diego Aguilar	Mortality and allostatic load	2017	Collaboration with Dr. Jonathan Daw

PARTICIPATION IN THE MEDIA

Op-Ed Columns

[Why Puerto Rico's death toll from Hurricane Maria is so much higher than officials thought](#) an article addressing the differences in official death count following Hurricane Maria and independent estimates. Published in The Conversation (January 3, 2018). *Most read article written by a Penn State faculty member in January 2018.

[Will Puerto Ricans return home after Hurricane María?](#) an article where I discuss the intentions to return to Puerto Rico of those who came to U.S. following Hurricane María. Published in The Conversation (November 17, 2017).

*In the Top 10 most read articles written by a Penn State faculty member in November 2017.

**Population Research Institute-Publication of the Week (November 27 2017)

***Included in the Migration mayhem in 2017: 9 essential reads by The Conversation (December 21, 2017)

[Time to release the vital statistics](#), a column about data transparency in the aftermath of Hurricane María in Puerto Rico. Published in El Nuevo Día, one of the principal newspapers in Puerto Rico (November 16, 2017).

[Population of Puerto Rico: A ship without a destiny](#), column about population projection methods. Published in El Nuevo Día, one of the principal newspapers in Puerto Rico (April 27, 2017).

Demographic News

[Puerto Rico, still reeling from Hurricane Maria, faces major challenges](#). Discussed the events surrounding the miscount of deaths in Puerto Rico following Hurricane María. Published by ABC News (March 18, 2018).

[Exodus from Puerto Rico grows as island struggles to rebound from Hurricane María](#). Discussed the preliminary findings of excess passenger flow and the limitations of administrative records and estimation techniques to address migration from Puerto Rico in the aftermath of Hurricane María. Published by the Washington Post on March 6, 2018.

[Puerto Rico deaths related to Hurricane María continued for months after the storm, data suggest](#). Spotlight on most recent analysis on excess deaths in Puerto Rico, published by Los Angeles Times (February 28, 2018). Published in print as "Puerto Rico death toll revisited" by LA Times on March 2, 2018.

[Puerto Rico asks a DC university to review possible Hurricane María deaths](#). Discussed the appointment of an independent team to review deaths associated with Hurricane María, published by CNN (February 22, 2018).

['Exodus' from Puerto Rico: a visual guide](#). Discussed the limitations of administrative records within the discussions of migration following climate disasters, published by CNN (February 21, 2018).

[Puerto Rico orders review and recount of Hurricane deaths](#). Highlighted the importance of accurate death counts for future climate disaster planning, published in the New York Times (December 18, 2017)

[Demographers estimate more victims after Hurricane María](#). Reported excess deaths following Hurricane María published in El Nuevo Día one of the major newspapers in Puerto Rico. (November 27, 2017)

[Penn State researcher studies response to Hurricane María](#). Penn State News (October 31, 2017)

[Immigration Concerns with Justin Betti](#) (May 11, 2017), ABC 23 (WATM). Provided information about the profile migrants pre and post-1980s and recent trends in net migration.

[Penn State Offering new degree in applied demographics](#), Centre Daily News (November 25, 2016)

Other News

[PSU Nittany Lion Shrine celebrates 75th birthday](#). Discussed the significance of the Lion Shrine in Penn State. WJAC.

[Puerto Rico Planning Board assumes control of the Statistics Institute](#). Removed my name from consideration for the position of Executive Director of the Puerto Rico Institute of Statistics due to political interventions. El Vocero (July 26, 2017)

PROFESSIONAL ASSOCIATIONS

Interdisciplinary Association for Population Health Science
Population Association of America
Southern Demographic Association

LANGUAGES

English and Spanish

REVIEWER

Journal of Healthcare for Poor and Underserved, Ethnicity & Disease, Demography, Spatial Demography, Mathematical Population Studies, Biodemography and Social Biology, SHOCK, Springer (Series on Demographic Methods and Population Analysis)

SOFTWARE USE

SAS, R, SPSS, STATA, ArcGIS, GeoDa, Q-GIS, Maptitude, CART, Eviews

REFERENCES

Dr. Lloyd B. Potter

University of Texas at San Antonio
lloyd.potter@utsa.edu

Dr. Jeffrey T. Howard

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jeffhoward01@gmail.com

Dr. John Iceland

Pennsylvania State University
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