

**ALEXIS SANTOS (SANTOS-LOZADA)**

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**EDUCATION**

2015 PhD, Applied Demography, University of Texas at San Antonio  
2012 MA, Economics, University of Puerto Rico, Río Piedras  
2010 BA, Economics *Cum Laude*, University of Puerto Rico at Cayey - Minor in Statistics (2012)

**ACADEMIC POSITIONS**

2015- Director of Graduate Studies in Applied Demography, Pennsylvania State University  
2015- Assistant Teaching Professor in Sociology, Pennsylvania State University  
*Lecturer in Sociology, Pennsylvania State University (2015-2017)*

**AFFILIATIONS**

2016- Research Affiliate, Population Research Institute, Pennsylvania State University  
2016- 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, Institute for Demographic and Socioeconomic Research (San Antonio, TX)

**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**

Demographic Techniques, Race/Ethnicity and Health, Health Disparities, Biodemography and Mortality, Statistical Methods, Spatial Demography, Military Health

**PUBLICATIONS**

**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*.

**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.

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**

**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)**

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.

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.

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.

**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**

**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)

**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.

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**

**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.

**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**

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

#### **UNDER REVIEW**

Hauer, Mathew and **Santos-Lozada, Alexis R.** Climate change could reduce life expectancy by one year. (Available through [SocArXiv](#), Under Review, *Lancet Planetary Health*)

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. (Ready for Decision, *Women's Health Issues*)

**Santos-Lozada, Alexis R.** Patterns of physiological dysregulation among U.S. Adults: A Latent Class Analysis (Under Review in *Biodemography and Social Biology*)

#### **WORKS IN PROGRESS**

**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* (x2), *Vox* (x2), and *CBS 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>.

**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.

**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.

**Santos-Lozada, Alexis R.** Urban-Rural differences in allostatic load among adults in the United States.

**Santos-Lozada, Alexis R.** Does allostatic load mediate the nonmetropolitan mortality penalty among adults in the United States?

**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).

**WORKS IN PROGRESS (Continued)**

**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).

**Santos-Lozada, Alexis R.** Allostatic Load Accelerates Time-to-Death among U.S. Adults. (Preparing for resubmission)

**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)

Patterson, Sarah E. and **Santos-Lozada, Alexis R.** Caregiving received by older adults in Puerto Rico. Manuscript available.

**Santos-Lozada, Alexis R.** and Patterson, Sarah E. Caregiving by older adults in Puerto Rico

**SELECTED PROFESSIONAL PRESENTATIONS (\*Denotes an invitation)**

- 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
- 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 Rural Sociological Society, Annual Meeting, New York NY
- 2013 Population Association of America, Annual Meeting, New Orleans LA
- 2012 RCMI International Symposium on Health Disparities, San Juan PR

**INVITED PRESENTATIONS**

- 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 Spring Meeting (FSCPE).

**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
Ric Stamm	M.GIS	2018*	Chair	Food insecurity
Kevin Sadowski	M.GIS	2018*	Chair	Urban Sociology
Diego Aguilar	M.A.	2018*	Member	Health Disparities
Diego N. Caraballo**	M.S.	2017	Member	Mortality and Health
Wayne Ki Frad	M.GIS	2016	Chair	Spatial Epidemiology

**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

**PROJECTS**

*Puerto Rican Diaspora in the Aftermath of Hurricane María*. Available in ([sites.psu.edu/prdiasporastudy](http://sites.psu.edu/prdiasporastudy))

**AWARDS AND RECOGNITIONS**

- 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

**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                  |
| Principles of Demography (Fall 2017)             | Graduate course  |
| Demographic Techniques (Fall 2017)               | Graduate course  |

**COURSE DEVELOPMENT**

*Pennsylvania State University*

- 2016-17 Applied 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

**PROFESSIONAL, UNIVERSITY AND DEPARTMENTAL SERVICE**

*Demography Program*

- 2017 Judge and Discussant for the Annual Mini PAA Conference

*Department of Sociology and Criminology*

- 2017- Member, Social Committee
- 2016- Member, Diversity Promotion Committee
- 2015- 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
- 2009-10 Acting President, Student Government

*University of Puerto Rico at Cayey (continued)*

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)

*American Burn Association*

2017-19 Research Committee

*Mentoring experience*

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

*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 G.I.S. 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

**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).

[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 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](mailto:lloyd.potter@utsa.edu)

**Dr. David Swanson**

University of California, Riverside  
[david.swanson@ucr.edu](mailto:david.swanson@ucr.edu)

**Dr. Stephen Matthews**

Pennsylvania State University  
[matthews@psu.edu](mailto:matthews@psu.edu)

**Dr. Melissa Hardy**

Pennsylvania State University  
[melissa.hardy@psu.edu](mailto:melissa.hardy@psu.edu)

**Dr. Jeffrey T. Howard**

U.S. Army Institute for Surgical Research  
[jeffhoward01@gmail.com](mailto:jeffhoward01@gmail.com)

**Dr. Gordon DeJong**

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