

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
2017- Assistant Teaching Professor in Sociology, Pennsylvania State University
2015-17 Lecturer in Sociology, Pennsylvania State University

AFFILIATIONS

2016- Research Affiliate, Population Research Institute, Pennsylvania State University
2016- Masters in Geographic Information Systems Program, 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)

COURTESY APPOINTMENTS

2017 Assistant Professor in Business Administration, Universidad del Sagrado Corazón

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 Daw, Jonathan. Forthcoming. The Contribution of Three Dimensions of Allostatic Load to Racial/Ethnic Disparities in Poor/Fair Self-Rated Health. *Social Science & Medicine – PH*.

Howard, Jeffrey T., Kotwal, Russ S., **Santos, Alexis R.**, Martin, Matthew J. and Stockinger, Zsolt T. Forthcoming. Re-Examination of a Battlefield Trauma Golden Hour Policy. *Journal of Trauma and Acute Care Surgery*.

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. Forthcoming. Burn Hand/Finger Goniometric Measurements: Sum of the Isolated Parts not equal to Composite Whole. *Journal of Burn Care & Research*.

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.

PUBLICATIONS (Continued)

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

Santos-Lozada, Alexis R. and Howard, Jeffrey T. Using allostatic load to validate self-rated health for racial/ethnic groups in the United States. (Under Review, Second Round, *Biodemography and Social Biology*)

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

Santos-Lozada, Alexis R. Hispanic-White disparities in Self-Rated Health: Implications of Language of Interview for Understanding the Latino Health Puzzle. (Ready for Decision, *Annals of Epidemiology*)

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. (Under Review, *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., 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?

WORKS IN PROGRESS (Continued)

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)

Santos-Lozada, Alexis R. and Caraballo-Orozco, Diego N. Does the Male-Female Health-Survival Paradox apply to Puerto Ricans elders?

Santos-Lozada, Alexis R. and Caraballo-Orozco, Diego N. Does the predictive power of comparative health status for subsequent mortality varies by comparison frame among Elder Puerto Ricans?

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

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

SELECTED PROFESSIONAL PRESENTATIONS

- 2017 Population Association of America, Annual Meeting, Chicago IL (with Daniel N. Ramírez-Smith)
- 2016 Applied Geography Conference, Annual Meeting, Louisville KY
- 2016 Population Association of America, Annual Meeting, Washington DC (with Matthew J. 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 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

* Denotes the expected year of completion for the student

** Denotes a 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 N. Caraballo**	M.S.	2017*	Member	Mortality and Health
Diego Aguilar	M.A.	2017*	Member	Health Disparities
Wayne Ki Frad	M.GIS	2016	Chair	Spatial Epidemiology

PROJECTS

Ongoing

Puerto Rican Diaspora in the Aftermath of Hurricane María (Santos, Alexis R. PI)

More information available in: <http://sites.psu.edu/prdiasporastudy>

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)

GRANTS (continued)

Internal Funding

- 2015-17 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

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

- Applications in Applied Demography (Spring 2018) Graduate course, Co-Teaching with Dr. Nicolás Sacco
- Applied Demography, Data and G.I.S. (Spring 2018) Graduate course
- 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)

Universidad del Sagrado Corazón

- 2017 Introduction to Microeconomics for the Business Administration Department (Hurricane María Initiative)

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)

American Burn Association

- 2017-19 Research Committee

University of Puerto Rico at Cayey

2013 Judge for the Research Symposium
 2009-10 Acting President, Student Government
 2009 Presidential Search Committee, Institutional and System-wide Search
 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

Mentoring experience

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

Funding secured for Ph.D. Candidates and 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*

[Will Puerto Ricans return home after Hurricane María?](#) an article where the intentions to return to Puerto Rico are discussed. Published in The Conversation (November 17, 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 major 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 major newspapers in Puerto Rico (April 27, 2017).

Demographic News

[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)

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.

I also served as professional reviewer for Statistics Section in SHOCK.

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. Melissa Hardy

Pennsylvania State University
melissa.hardy@psu.edu

Dr. David Swanson

University of California, Riverside
david.swanson@ucr.edu

Dr. Jeffrey T. Howard

U.S. Army Institute for Surgical Research
jeffhoward01@gmail.com