

José Manuel Aburto [updated November 2018]

CONTACT INFORMATION	University of Southern Denmark J.B. Winsløws Vej 9 DK-5000 Odense C +45 65 50 94 16 jmaburto@health.sdu.dk
RESEARCH INTERESTS	Demography, demographic methods, health, mortality, statistical modeling, lifespan equality, biodemography.
FORMAL EDUCATION	<p>PhD candidate in Public Health. Defense scheduled July 2019. University of Southern Denmark, Max Planck Center on the Biodemography of Aging & Max Planck Institute for Demographic Research. Topic: “On the relationship between life expectancy and lifespan equality” Main supervisor: James W. Vaupel</p> <p>European Doctoral School of Demography, Sapienza University of Rome & Max Planck Institute for Demographic Research, 2015-16. Mentors: Alyson van Raalte and Tim Riffe</p> <p>M.Sc. Demography, El Colegio de Mexico, Mexico City, 2012-14. Supervisors: Hiram Beltrán-Sánchez and Victor M. García Guerrero</p> <p>B.S., Actuarial sciences, Universidad Autonoma de Guadalajara, Guadalajara, Mexico, 2005-09.</p>
TEACHING RESEARCH EXPERIENCE	<p>Teaching Assistant. Biostatistics I. University of Southern Denmark. Fall term 2018.</p> <p>Lecturer. An introduction to Shiny apps for health and demographic research. Workshop at Australian National University. September 2018.</p> <p>Lecturer. Mathematical Demography: Decomposition techniques for health research. University of Southern Denmark, European Doctoral School of Demography. Cohort 2017-2018.</p> <p>Teaching Assistant. Biostatistics I. University of Southern Denmark. Fall term 2017.</p> <p>Lecturer. Demography & Economics. University of Southern Denmark. Fall term 2017.</p> <p>Teaching Assistant. Mathematical Analysis. Universidad Autonoma de Guadalajara. 2008-2009.</p>

POSITIONS AND PROFESSIONAL EXPERIENCE **Visiting Scholar.** Institut national d'études démographiques, December-January 2019

Visiting Scholar. Australian National University, October 2018

Consultant. World Bank; Health Profile for Saudi Arabia 2018-

Guest researcher. Max Planck Institute for Demographic Research 2017-

Consultant. World Bank; Age- and Cause-Decomposition of the Difference in Life-Expectancy in Latin American and Caribbean Countries 2017-

Research Assistant. Max-Planck Odense Center on Biodemography of Aging; IST - EBB/Epidemiology, Biostatistics and Biodemography. University of Southern Denmark 2016-2017

Assistant Director. Demographic Analysis- Census Division. National Institute of Statistics and Geography (INEGI), Mexico. 2010-2012

Research Assistant. "Derecho a la Identidad: la cobertura del registro de nacimiento en Mexico en 1999 y 2009". INEGI-UNICEF 2011-2012

Risk Account Analyst. AON Risk Services (Guadalajara) 2007-2009

AWARDS **Best poster award PAA 2018:** Homicides in Mexico increased inequality of lifespans 2018

Editor's choice for the paper: "Mexico's Epidemic of Violence and its Public Health Significance on Average Length of Life" In *Journal of Epidemiology and Community Health*. <http://jech.bmj.com/content/71/2> 2017

Actuarial Sciences cohort 2005-2009 BD *Summa Cum Laude*, Universidad Autonoma de Guadalajara 2009

RESEARCH SUPPORT **Funding for research stay.** French National Institute for Demographic Studies. December 2018

Title: Longevity in Latin America and the Caribbean (LAC).
Description: To compare mortality trends across time and the LAC region

versus EU. Agency: World Bank. Role: Co-PI.

Term: 2017

Title: Health Status of the Population of Saudi Arabia. Description: To compare mortality trends across time in SA as well as construct a burden of disease study. Agency: World Bank. Role: Co-PI. Term: 2018

National Council of Science and Technology (CONACYT) funding for a research stay. Spring 2014

National Council of Science and Technology (CONACYT) Studentship to pursue Master degree. 2012-2014

National Program of Fellowships (PRONABE) Studentship to pursue BSc degree. 2005-2009

PUBLISHED
ARTICLES

Aburto, J.M., Beltrán-Sánchez H. “The upsurge of homicides and its impact on life expectancy and lifespan inequality in Mexico, 2005-2015 ” Accepted in *American Journal of Public Health*

Aburto, J.M., van Raalte, A. “Lifespan dispersion in times of life expectancy fluctuation: the case of Central and Eastern Europe” Accepted in *Demography*

Aburto, J.M., Riffe, T., Canudas-Romo, V. (2018) “Trends in avoidable mortality over the life course in Mexico, 1990-2015: A cross-sectional demographic analysis”. *BMJ Open* 2018;8:e022350. doi: 10.1136/bmjopen-2018-022350

Aburto, J.M., Wensink, M., van Raalte, A., Lindahl-Jacobsen, R. (2018). “Potential gains in life expectancy by reducing inequality of lifespans in Denmark: An international comparison and cause-of-death analysis ”. *BMC Public Health*, 18(1), 831. doi:0.1186/s12889-018-5730-0

Canudas-Romo, V., **Aburto, J.M.** (2017). “Biodemography of Aging Determinants of Healthy Life Span and Longevity”. Book Review. *European Journal of Population*. <https://goo.gl/KZbPSu>.

Canudas-Romo, V., **Aburto, J.M.**, García-Guerrero, V., Beltrán-Sánchez, H. (2017), “Mexico’s Epidemic of Violence and its Public Health Significance on Average Length of Life”. *Journal of Epidemiology and Community Health*, 71(2), 188-193. doi:10.1136/jech-2015-207015

Aburto, J.M., Beltrán-Sánchez, H., García-Guerrero, V., Canudas-Romo, V. (2016), “Homicides In Mexico Reversed Life Expectancy Gains For Men

And Slowed Them For Women, 2000-10". *Health Affairs*, 35(1),88-95.

Aburto, J.M., García Guerrero, V.M. (2015) "El modelo aditivo doble multiplicativo. Una aplicación a la mortalidad mexicana". *Papeles de población*, 21(84), 9-44.

BOOK
CHAPTERS

Lenart, A., **Aburto, J.M.**, Stockmarr, A., Vaupel, J.W. (Forthcoming). "The human longevity record may hold for decades". In *Exceptional Lifespans*. Edited by H. Maier, B. Jeune, and J. W. Vaupel.

Villavicencio, F., **Aburto, J.M.** (Forthcoming). "Does the force of mortality increase after age 110?". In *Exceptional Lifespans*. Edited by H. Maier, B. Jeune, and J. W. Vaupel.

OTHER
PUBLISHED
OUTPUTS

Canudas-Romo, V., **Aburto, J.M.** (2018). Saudi Arabia Health Profile Interactive Application. Available at:
<https://population-health.shinyapps.io/saudi-arabia-health-profile/>

Canudas-Romo, V., **Aburto, J.M.** (2017). Age- and Cause-Decomposition of the Difference in Life-Expectancy in Latin American and Caribbean Countries. Available at:
https://wb-lac.shinyapps.io/lac_diversity/

WORKING
PAPERS

García, J., **Aburto, J.M.** "The impact of violence on Venezuelan life expectancy and lifespan inequality" Revise and resubmit in International Journal of Epidemiology

Canudas-Romo, V., **Aburto, J.M.** "Youth lost to homicides: The disparities in survival in Latin America and the Caribbean ". Revise and resubmit in BMJ Global Health

Pascariu, MD., Basellini, U., **Aburto, J.M.**, Canudas-Romo, V. "The Linear Link: Deriving Age-Specific Death Rates from Life Expectancy" Revise and Resubmit in Population Studies

Alvarez-Martínez, J., **Aburto, J.M.**, Canudas-Romo, V. "Latin American convergence and divergence towards the mortality profiles of developed countries" Revise and resubmit in Population Studies

Riffe, T., **Aburto, J.M.** "Lexis fields" Under review in Demographic Research

Kashnitsky, I., **Aburto, J.M.**. “Geofaceting align small-multiples for regions in a spatially meaningful way”. Under review in Demographic Research.

Aburto, J.M., Alvarez-Martínez, J.A., Villavicencio, F., Vaupel, J.W. “The threshold age of the Keyfitz’ entropy” Under review in Demographic Research’s formal relationships.

Aburto, J.M., Villavicencio, F., Vaupel, J.W. “The threshold age of the the Gini coefficient” Under review in Demographic Research’s formal relationships.

Aburto, J.M., Basellini, U., Kjærgaard, S., Vaupel, J.W. “Life Expectancy and Lifespan Equality: a Long-run Relationship with recent interruptions” Intended for PNAS.

Aburto, J.M., Villavicencio, F., Vaupel, J.W. “Dynamics of life expectancy and lifespan equality” Intended for PNAS.

Pescador, M., Flores, A., Vignau, M., Riffe, T., Canudas-Romo, V., **Aburto, J.M.** “Violence and its consequences on women’s health in Mexico after 2005”. Intended for Health Affairs.

RESEARCH STAYS	Australian National University.	September-October 2018
	University of Wisconsin-Madison.	Spring 2014
	Mathematics Research Center (CIMAT).	Fall 2009
INVITED PRESENTA- TIONS	Latin America’s epidemic of violence.	Australian National University 2018
	The impact of violence on lifespan inequality in Mexico.	Tel Aviv University. 2018
	La epidemia de violencia en México y su impacto en la salud de la población.	CIDE Region Centro, México. 2018
	Life expectancy and lifespan equality: a long run relationship.	Max Planck Institute for Demographic Research, MaxNet aging. 2017
	Pace and Shape of real vs lifetable’s age at death distributions.	

	Max Planck Institute for Demographic Research, MaxNet aging.	2017
	Violence in Mexico in the first decade of the XXI century. Sapienza University of Rome, with Vladimir Canudas-Romo.	2015
ACADEMIC PRESENTA- TIONS	The impact of violence on lifespan inequality in Mexico. Oral Presentation. ALAP. Puebla, Mexico.	2018
	Dynamics of life expectancy and lifespan equality. Oral Presentation. ALAP. Puebla, Mexico.	2018
	Lifespan Inequality in Denmark, Sweden and Norway: How Long until Denmark Reduces the Gap?. Oral Presentation. EPC. Brussels, Belgium.	2018
	Potential gains in life expectancy by reducing inequality of lifespans in Denmark: a cause of death analysis. Oral Presentation. PAA. Denver, USA.	2018
	Homicides in Mexico increased inequality of lifespans. Poster Session. PAA. Denver, USA.	2018
	Macro patterns in the evolution of human aging. BSPS Annual Conference. Liverpool, UK.	2017
	Homicides increase variation in lifespans in Mexico and its States, 2005-2015. BSPS Annual Conference. Liverpool, UK.	2017
	Lifespan inequalities in Mexico and its states 1995-2015. International Seminar on Mortality, Unicamp, Brazil.	2017
	Human Mortality Database Symposium. Oral Presentation. Berlin, Germany.	2017
	Life expectancy and lifespan equality: a long run relationship. Oral Presentation. PAA. Chicago, USA.	2017
	Lifespan variation in Central and Eastern Europe. Poster Session. PAA. Chicago, USA.	2017
	Lifespan variation in Central and Eastern Europe. 9th Young Demographers Conference. Prague, Czech Republic.	2017

Lifespan dispersion in Eastern Europe. European Population Conference. Mainz, Germany. 2016

Homicide, Health, and Deviations from Best Practices Mortality: Mortality in Mexican States, 1990-2010. Poster Session. Population Association of America. Washington, D.C. 2016

Estimación de la Mortalidad Mexicana por el Método de Lee-Carter y por el Modelo Aditivo Doble Multiplicativo Propuesto por Wilmoth. SOMEDE at Aguascalientes, Mexico. 2012

Diagnóstico de la cobertura de los registros de nacimientos en México. SOMEDE at Aguascalientes, Mexico. 2012

PRESS
COVERAGE

Homicides In Mexico Reversed Life Expectancy Gains For Men And Slowed Them For Women, 2000-10. 2016, *Health Affairs*
New York Times: Reverberations From a Rise in Mexico's Murder Rate
<https://goo.gl/6nrfQR>
(Spanish) <https://goo.gl/Q9A97F>
Der Spiegel: Drogenkrieg senkt Lebenserwartung mexikanischer Männer
<https://goo.gl/SriitK>
The Guardian: Mexico's drug war reverses trend of rising male life expectancy, study finds <https://goo.gl/uFE6M7>
El País: Violence shortening average life expectancy in Mexico
<https://goo.gl/Q6B4vZ>
Vox: The war on drugs is literally killing Mexico <https://goo.gl/UNRBtf>
Independent <https://goo.gl/3LQn9h>
Sin Embargo <https://goo.gl/hnp9Qj>
Aristegui Noticias <https://goo.gl/w78KHD>
El Financiero <https://goo.gl/9bwN2n>

REVIEW
PAPERS FOR

BMJ
International Journal of Epidemiology
Health Affairs
Demography
PlosOne
F1000Research
Injury Prevention
Theoretical Population Biology
Genus
Papeles de Población

PROFESSIONAL TRAINING	Workshop in “Matrix approaches in health demography” , Max Planck Institute for Demographic Research	2017
	Workshop in “Advanced statistics in biomedicine” , University of Southern Denmark	2016
	Workshop in “Intergenerational transfers and demographic transformations” , El Colegio de Mexico. Iván Mejía Guevara	2013
	Workshop in “Remote sensing applications to social science research” , El Colegio de Mexico. José Luis Silván	2013
	Workshop in “Multistate models” , El Colegio de Mexico. Alberto Palloni	2011
	Redatam Data Base Creation , Instituto Nacional de Estadística y Geografía	2011
	Applied Analytics Using SAS Enterprise Miner , Instituto Nacional de Estadística y Geografía	2011
	Generating Statistical Information , Instituto Nacional de Estadística y Geografía	2011
	Redatam Process , Instituto Nacional de Estadística y Geografía	2010
	School of mathematical and vector analysis , Centro de Investigación en Matemáticas	2009
LANGUAGES	X School of probability and statistics , Centro de Investigación en Matemáticas	2009
	First summer of research in probability and statistics , Centro de Investigación en Matemáticas	2008
	<i>Project: “Simultaneous Multiresponse Optimization”</i>	
	Spanish: native speaker.	
	English: fluent.	
	Portuguese: good command.	
	Italian: good command.	