

## José Manuel Aburto [updated September 2018]

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

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|                        | <b>Consultant.</b> World Bank; Health Profile for Saudi Arabia  | 2018        |
|                        | <b>Consultant.</b> World Bank; Age- and Cause-Decomposition of the Difference in Life-Expectancy in Latin American and Caribbean Countries  | 2017        |
|                        | <b>Research Assistant.</b> Max-Planck Odense Center on Biodemography of Aging; IST - EBB/Epidemiology, Biostatistics and Biodemography. University of Southern Denmark  | 2016-2017   |
|                        | <b>Assistant Director.</b> Demographic Analysis- Census Division. National Institute of Statistics and Geography (INEGI), Mexico.   | 2010-2012   |
|                        | <b>Research Assistant.</b> “Derecho a la Identidad: la cobertura del registro de nacimiento en Mexico en 1999 y 2009”. INEGI-UNICEF   | 2011-2012   |
|                        | <b>Risk Account Analyst.</b> AON Risk Services (Guadalajara)  | 2007-2009   |
| AWARDS AND FELLOWSHIPS | <b>Funding for research stay.</b> French National Institute for Demographic Studies.  | 2018        |
|                        | <b>Best poster award PAA 2018:</b> Homicides in Mexico increased inequality of lifespans  | 2018        |
|                        | <b>Editor’s choice for the paper:</b> “Mexico’s Epidemic of Violence and its Public Health Significance on Average Length of Life” In <i>Journal of Epidemiology and Community Health</i> . <a href="http://jech.bmj.com/content/71/2">http://jech.bmj.com/content/71/2</a> | 2017        |
|                        | <b>National Council of Science and Technology (CONACYT) funding for a research stay.</b>  | Spring 2014 |
|                        | <b>National Council of Science and Technology (CONACYT) Studentship to pursue Master degree.</b>  | 2012-2014   |
|                        | <b>Actuarial Sciences cohort 2005-2009 BD <i>Summa Cum Laude</i>,</b> Universidad Autonoma de Guadalajara   | 2009        |
|                        | <b>National Program of Fellowships (PRONABE) Studentship to pursue BSc degree.</b>  | 2005-2009   |
| PUBLISHED ARTICLES     | <b>Aburto, J.M., van Raalte, A.</b> “Lifespan dispersion in times of life expectancy fluctuation: the case of Central and Eastern Europe” Accepted in <i>Demography</i>   |             |

**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.

#### WORKING PAPERS

**Aburto, J.M.**, Beltrán-Sánchez H. “Homicides in Mexico increased inequality of lifespans and slowed down life expectancy gains in 2005-2015 ”Revise and Resubmit in American Journal of Public 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

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

Alvarez-Martínez, J., **Aburto, J.M.**, Canudas-Romo, V. “Latin American convergence and divergence towards the mortality profiles of developed countries” Under review in Population Studies

Canudas-Romo, V., **Aburto, J.M.** “ The disparities in survival in Latin America and the Caribbean: Youth lost to homicides”. Under review in British Medical Journal.

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.**, 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.

**Aburto, J.M.**, Alvarez-Martínez, J.A., Villavicencio, F., Vaupel, J.W. “The threshold age of the Keyftiz’ entropy” Intended for Demographic Research’s formal relationships.

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

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

**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 Confe-  
rence. 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 Manner*  
<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**  
**F1000Research**

**Injury Prevention**  
**Theoretical Population Biology**  
**Genus**  
**Papeles de Población**

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

**English:** fluent.

**Portuguese:** good command.

**Italian:** good command.