

## José Manuel Aburto

---

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><b>PhD candidate in Demography</b>, Max Planck Center on the Biodemography of Aging, Max Planck Institute for Demographic Research &amp; University of Southern Denmark, 2016-19. Topic: “On the relationship between life expectancy and lifespan equality” 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. Mentors: Alyson van Raalte and Tim Riffe</p> <p><b>M.Sc. Demography</b>, El Colegio de Mexico, Mexico City, 2012-14. 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> 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. July 2008 - February 2009</p>
PROFESSIONAL EXPERIENCE	<p><b>Consultancy.</b> World Bank; Health Profile for Saudi Arabia 2018</p> <p><b>Consultancy.</b> World Bank; Age- and Cause-Decomposition of the Difference in Life-Expectancy in Latin American and Caribbean Countries 2017</p>

**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

PUBLISHED  
ARTICLES

**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.

WORKING  
PAPERS

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

**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

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

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

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.

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.

**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 interdisciplinary journal.

**Aburto, J.M.**, Villavicencio, F., Alvarez-Martínez, J.A., Vaupel, J.W.

“The threshold age of the Kyftiz’ 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.

**Aburto, J.M.**, Queiroz, B., Calazans, J., Luhar, S., Canudas-Romo, V. “The effect of homicides on life expectancy in Brazil by race” Intended for Health Affairs.

AWARDS AND  
FELLOWSHIPS      **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

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

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

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

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

REVIEW  
PAPERS FOR      **BMJ**  
**International Journal of Epidemiology**  
**Health Affairs**  
**F1000Research**  
**Injury Prevention**  
**Theoretical Population Biology**  
**Genus**  
**Papeles de Población**

RESEARCH  
STAYS      **University of Wisconsin-Madison.** Spring 2014

Mathematics Research Center (CIMAT).

Fall 2009

INVITED  
PRESENTA-  
TIONS

**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

	<b>Lifespan variation in Central and Eastern Europe.</b> Poster Session. PAA. Chicago, USA. 2017
	<b>Lifespan variation in Central and Eastern Europe.</b> 9th Young Demographers Conference. Prague, Czech Republic. 2017
	<b>Lifespan dispersion in Eastern Europe.</b> European Population Conference. Mainz, Germany. 2016
	<b>Homicide, Health, and Deviations from Best Practices Mortality: Mortality in Mexican States, 1990-2010.</b> Poster Session. Population Association of America. Washington, D.C. 2016
	<b>Estimación de la Mortalidad Mexicana por el Método de Lee-Carter y por el Modelo Aditivo Doble Multiplicativo Propuesto por Wilmoth.</b> SOMEDE at Aguascalientes, Mexico. 2012
	<b>Diagnóstico de la cobertura de los registros de nacimientos en México.</b> SOMEDE at Aguascalientes, Mexico. 2012
PROFESSIONAL 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

**Redatam Process**, Instituto Nacional de Estadística y Geografía 2010

**School of mathematical and vector analysis**, Centro de Investigación en Matemáticas 2009

**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

*Project: "Simultaneous Multiresponse Optimization"*

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>

LANGUAGE  
ABILITIES

**Spanish:** native speaker.

**English:** fluent.

**Portuguese:** good command.

**Italian:** good command.