

## José Manuel Aburto [updated March 2019]

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CONTACT INFORMATION	University of Southern Denmark J.B. Winsløws Vej 9 DK-5000 Odense C +45 65 50 94 16 jmaburto@health.sdu.dk
FORMAL EDUCATION	<b>PhD candidate in Public Health and Demography</b> University of Southern Denmark Topic: “On the relationship between life expectancy and lifespan equality” Main supervisors: Professors Vladimir Canudas-Romo & James W. Vaupel.  <b>European Doctoral School of Demography</b> , Sapienza University of Rome & Max Planck Institute for Demographic Research. 15/09/2015 - 30/06/2016.  <b>M.Sc. Demography</b> , El Colegio de Mexico, Mexico City. 15/08/2012 - 30/06/2014.  <b>B.S., Actuarial sciences and mathematics</b> , Universidad Autonoma de Guadalajara, Guadalajara, Mexico. 01/08/2005 - 30/06/2009.
AWARDS	<b>Best poster award American Population Association Award 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>Actuarial Sciences cohort 2005-2009 BD <i>Summa Cum Laude</i></b> , Universidad Autonoma de Guadalajara 2009
RESEARCH SUPPORT	<b>Funding for research stay.</b> French National Institute for Demographic Studies. December 2018  <b>Title: Longevity in Latin America and the Caribbean (LAC).</b> Description: To compare mortality trends across time and the LAC region versus EU. Agency: World Bank. Role: Co-PI. Term: 2017  <b>Title: Health Status of the Population of Saudi Arabia.</b> 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

## PUBLICATIONS

### Peer Reviewed published articles

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

García, J., **Aburto, J.M.** (Forthcoming) “The impact of violence on Venezuelan life expectancy and lifespan inequality” *International Journal of Epidemiology*.

Canudas-Romo, V., **Aburto, J.M.** (Forthcoming) “Youth lost to homicides: The disparities in survival in Latin America and the Caribbean”. *BMJ Global Health*, 4(2), e001275. doi:10.1136/bmjgh-2018-001275

**Aburto, J.M.**, Beltrán-Sánchez H. (2019) “The upsurge of homicides and its impact on life expectancy and lifespan inequality in Mexico, 2005-2015”. *American Journal of Public Health*, 109(3), 483-489. doi:10.2105/AJPH.

**Aburto, J.M.**, van Raalte, A. (2018) “Lifespan dispersion in times of life expectancy fluctuation: the case of Central and Eastern Europe”. *Demography*, 55(6), 2071-2096. doi:10.1007/s13524-018-0729-9

**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.

## Peer Reviewed 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. Preprint: <https://arxiv.org/abs/1812.01952>

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. Preprint: <https://arxiv.org/abs/1809.03732>

## Other published outputs

**Aburto, J.M.**, Enciso, F. Mexican war on drugs has, in places, decreased life expectancy. The Conversation UK. <https://bit.ly/2GwZjvS>.

## Submitted publications with peer review process

**Aburto, J.M.**, Alvarez-Martínez, J.A., Canudas-Romo, V. “Reformulation of years of life lost ” Under review in International Journal of Epidemiology.

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

Research.

Preprint: <https://arxiv.org/abs/1901.07963>

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

Preprint: <https://www.demogr.mpg.de/papers/working/wp-2019-001.pdf>

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

Preprint: <https://github.com/ikashnitsky/demres-2018-geofacet>

## Working papers

**Aburto, J.M.**, Basellini, U., Villavicencio, F. “The Gini coefficient of the life table: a reexamination” Intended for Theoretical Population Biology.

**Aburto, J.M.**, Villavicencio, F., Basellini, U., Kjærgaard, S., 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.

Colchero, F., **Aburto, J.M.**, Altmann, J., ... , Wrangham, R., Alberts, S. “The evolutionary landscape of primate longevity”. Intended for Science.

## SOFTWARE DEVELOPMENT AND WEB APPLICATIONS

**Aburto, J.M.**, Tim Riffe (PI), Ilya Kashnitsky and Marius Pascariu. **R package DemoTools** . Project developed for the United Nations Population Division.

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/>

## TEACHING EXPERIENCE

01/08/2018 - 15/12/2018. **Teaching Assistant.** Biostatistics I. University of Southern Denmark.

10/09/2018 - 12/09/2018. **Lecturer.** An introduction to Shiny apps for health and demographic research. Workshop at Australian National University (Workshop)

09/04/2018 - 13/04/2018. **Lecturer.** Mathematical Demography: Decomposition techniques for health research. University of Southern Denmark, European Doctoral School of Demography.

01/08/2017 - 15/12/2017. **Teaching Assistant.** Biostatistics I. University of Southern Denmark.

01/08/2018 - 15/12/2018 **Lecturer.** Demography & Economics. University of Southern Denmark.

POSITIONS AND  
PROFESSIONAL  
EXPERIENCE

01/12/2018 - 04/01/2019. **Visiting Scholar.** Institut national d'études démographiques.

01/10/2018 - 05/11/2018. **Visiting Scholar.** Australian National University.

01/06/2018-Present. **Guest researcher.** Max Planck Institute for Demographic Research.

01/07/2017 - 01/10/2018. **Consultant.** World Bank. Projects: Health Profile for Saudi Arabia and Age- and Cause-Decomposition of the Difference in Life Expectancy in Latin American and Caribbean Countries.

01/08/2016 - 30/11/2016. **Research Assistant.** Max-Planck Odense Center on Biodemography of Aging; IST - EBB/Epidemiology, Biostatistics and Biodemography. University of Southern Denmark.

01/02/2010 - 01/08/2012. **Assistant Director.** Demographic Analysis- Census Division. National Institute of Statistics and Geography (INEGI), Mexico.

5/06/2011 - 15/06/2012. **Research Assistant.** "Derecho a la Identidad: la cobertura del registro de nacimiento en Mexico en 1999 y 2009". INEGI-UNICEF.

15/08/2007 - 01/06/2009. **Risk Account Analyst.** AON Risk Services (Guadalajara, Mexico)

RESEARCH  
STAYS

01/03/2014 - 01/05/2014 **University of Wisconsin-Madison.**

01/08/2009 - 15/12/2009. **Mathematics Research Center (CIMAT).**

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

**Last 5 of 15**

- 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

PRESS  
COVERAGE

- Upsurge of Homicides and Its Impact on Life Expectancy and Life  
Span Inequality in Mexico, 2005-2015, *American Journal of Public  
Health***  
*Medical Xpress: Increasing murder rate is erasing gains in life expectancy among  
Mexican men*  
<https://goo.gl/pRPZLC>  
*Newsweek: Mexico's murder rate is so high it has altered the life expectancy of*

men <https://goo.gl/hzS69f>

**Homicides In Mexico Reversed Life Expectancy Gains For Men And Slowed Them For Women, 2000-10. 2016,(selected) *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, European Journal of Population, Epidemiology, F1000Research, Injury Prevention, Theoretical Population Biology, Genus, Papeles de Población,

LANGUAGES **Spanish:** native speaker.

**English:** fluent.

**Portuguese:** good command.

**Italian:** good command.