

José Manuel Aburto [updated March 2019]

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	PhD candidate in Public Health and Demography University of Southern Denmark Topic: “On the relationship between life expectancy and lifespan equality” Main supervisors: Professors Vladimir Canudas-Romo & James W. Vaupel. European Doctoral School of Demography , Sapienza University of Rome & Max Planck Institute for Demographic Research. 15/09/2015 - 30/06/2016. M.Sc. Demography , El Colegio de Mexico, Mexico City. 15/08/2012 - 30/06/2014. B.S., Actuarial sciences and mathematics , Universidad Autonoma de Guadalajara, Guadalajara, Mexico. 01/08/2005 - 30/06/2009.
AWARDS	Best poster award American Population Association Award 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 <i>Journal of Epidemiology and Community Health</i> . http://jech.bmj.com/content/71/2 2017 Actuarial Sciences cohort 2005-2009 BD <i>Summa Cum Laude</i> , 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

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*.

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*. 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.