

Enrique Acosta, Ph.D.

Curriculum vitae

October 2024

Enrique Acosta is a demographer and *Ramón y Cajal* Fellow Research Scientist at the *Centre d'Estudis Demogràfics* (CED) in Barcelona, Spain, and a Guest Researcher at the *Max Planck Institute for Demographic Research* (MPIDR) in Rostock, Germany. His research focuses on mortality analysis, with a particular emphasis on the demographic impacts of crises, including violence, armed conflict, epidemics, pandemics, and substance abuse. He has developed innovative methodologies for studying Age, Period, and Cohort (APC) effects on mortality and is an expert in measuring excess mortality. Enrique has been a member of the *Technical Advisory Group of the UN Inter-agency Group for Child Mortality Estimation (IGME-TAG)* since March 2023.

Personal Information	eacosta@ced.uab.es , acosta@demogr.mpg.de , and kikepaila@gmail.com Google Scholar ; Research Gate ; CED personal page ; MPIDR personal page ; OSF ; GitHub . ORCID ID: 0000-0001-6250-4018
Academic Positions	Research Scientist (2022 – ongoing) <i>Centre d'Estudis Demogràfics (CED)</i> , Barcelona, Spain Research Group: Health and Ageing Guest Researcher (2022 – ongoing) <i>Max Planck Institute for Demographic Research (MPIDR)</i> , Rostock, Germany Research Group: Population Health Research Scientist (2019 – 2022) <i>Max Planck Institute for Demographic Research (MPIDR)</i> , Rostock, Germany Research Group: Population Health Ph.D. Research Fellow (2018 – 2019) <i>Max Planck Institute for Demographic Research (MPIDR)</i> , Rostock, Germany Research Group: Lifespan Inequalities - LIFEINEQ.
Affiliate Positions	<i>Ramón y Cajal</i> Research Fellow (2023 – 2027) <i>Agencia Estatal de Investigación Española</i> Technical Advisor (2023 – ongoing) <i>UN Inter-agency Group on Mortality Estimation's Technical Advisory Group (IGME-TAG)</i> SSHRC and FRQSC Postdoctoral Fellow (2020 – 2021) <i>Social Sciences and Humanities Research Council (SSHRC) of Canada</i> <i>Fonds de Recherche de Québec – Société et Culture (FRQSC)</i> Joseph-Armand Bombardier Fellow (2015 - 2018) <i>Social Sciences and Humanities Research Council (SSHRC) of Canada</i>
Education	Ph.D. in Demography (2019) * <i>Université de Montréal</i> , Canada Advisors: Alain Gagnon, Ph.D., and Nadine Ouellette, Ph.D. M.Sc. in Demography (2013) *** <i>Université de Montréal</i> , Canada B.A. (Hons) in Sociology (2008) ** <i>Universidad Nacional de Colombia</i> , Colombia B.Eng. (Hons) in Industrial Engineering (2007) * <i>Universidad Distrital de Bogotá</i> , Colombia * with the highest distinction ** with distinction *** accelerated in the doctoral program

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- Research Interests** Mortality trends; Mortality shocks; Violence and Armed Conflicts; Epidemics and Pandemics (COVID-19, influenza, substance abuse); Behavioral causes of death; Age-Period-Cohort effects; Excess mortality; Demography of violence.
- Databases** [COVerAGE-DB: A global demographic database of COVID-19](#).
* [Cofounded and co-directed 2020-2022 by Enrique Acosta and Tim Riffe]
- Publications**
- 2024 Acosta, Enrique, Lucia Hug, Helena Cruz-Castanheira, David Sharrow, José Henrique Monteiro da Silva, Danzhen You. “[Changes in stillbirths and child and youth mortality in 2020 and 2021 during the Covid-19 pandemic](#).” *International Journal of Epidemiology* 53(3).
- 2024 Diego Alburez-Gutiérrez*, Enrique Acosta*, Emilio Zagheni, and Nathalie Williams. “[The long-lasting effect of armed conflicts deaths on the living: Quantifying family bereavement](#).” *Science Advances* 10(30).
* [Alburez-Gutiérrez and Acosta contributed equally]
- 2024 Meyer, Anna, Marcus Ebeling, Enrique Acosta, and Modig Karin. “[Impact of the Covid-19 pandemic on the epidemiology of acute myocardial infarction – Population-level trends in incidence rates, hospital admissions, and fatality](#).” *European Journal of Epidemiology* (Forthcoming).
- 2023 Acosta, Enrique. “[Global estimates of excess deaths from COVID-19](#).” *Nature*, 613, 31-33.
- 2023 Castro, Andrés F., Enrique Acosta, Ignacio Pardo, Nicolás Sacco, Beatriz Piedad Urdinola. “[Diverging reproductive outcomes by maternal education during the Covid-19 pandemic across Brazilian and Colombian regions](#)” *Population, Space and Place*, 30(1).
- 2023 Pifarré i Arolas, Héctor, Enrique Acosta, Christian Dudel, Jo Mhairi Hale, and Mikko Myrskylä. “[US Racial–Ethnic Mortality Gap Adjusted for Population Structure](#)” *Epidemiology*, 34(3).
- 2022 Acosta, Enrique, Neil Mehta, Mikko Myrskylä, and Marcus Ebeling. “[Cardiovascular Mortality Gap between the United States and other High Life Expectancy Countries during the Period 2000-2016](#).” *Journal of Gerontology – Social Sciences*, 77(IS2).
- 2022 Ebeling, Marcus, Enrique Acosta, Anna Meyer, Hal Caswell, and Modig Karin. “[Years of life lost during the Covid-19 pandemic in Sweden considering variation in life expectancy by level of geriatric care](#).” *European Journal of Epidemiology*, 37.
- 2021 Riffe, Tim*, Enrique Acosta*, and the COVerAGE-DB Team. “[COVerAGE-DB: A Global Database of Age-structured COVID-19 Cases and Deaths](#).” *International Journal of Epidemiology* 50(2).
* [Riffe and Acosta contributed equally]
- 2021 Pifarré i Arolas, Héctor, Enrique Acosta, and Mikko Myrskylä. “[Optimal vaccination age varies across countries](#).” *Proceedings of the National Academy of Sciences (PNAS)* 118 (29).
- 2021 Pifarré i Arolas, Héctor, Enrique Acosta, Guillem López Casasnovas, Adeline Lo, Catia Nicodemo, Tim Riffe, and Mikko Myrskylä. “[Global Years of Life Lost to COVID-19](#).” *Scientific Reports* 11(3504).
- 2021 Morwinsky, Saskia, Natalie Nitsche, Enrique Acosta. “[COVID-19 fatality in Germany: Demographic determinants of variation in case-fatality rates across and within German federal states during the first and second waves](#).” *Demographic Research*, 45 (45).
- 2021 Ghio, Daniela, Enrique Acosta, David Fisman, Andrew Noymer, Nikolaos I. Stilianakis, and Simona Bignami. “[Population Health and COVID-19 in Canada: a Demographic Comparative Perspective](#).” *Canadian Studies in Population*.

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- 2021 Sempé, Lucas, Peter Lloyd-Sherlock, Ramón Martínez, Shah Ebrahim, Martin McKee, **Enrique Acosta**. “[Estimation of all-cause excess mortality by age-specific mortality patterns for countries with incomplete vital statistics: a population-based study of the case of Peru during the first wave of the COVID-19 pandemic.](#)” *The Lancet Regional Health – Americas* 100039.
- 2020 Nepomuceno, Marília R.*, **Enrique Acosta***, Diego Alburez-Gutierrez, José Manuel Aburto, Alain Gagnon, and Cássio M. Turra. “[Besides Population Age Structure, Health, and Other Demographic Factors can Contribute to Understanding the COVID-19 Burden.](#)” *Proceedings of the National Academy of Sciences (PNAS)* 117(25).
- * [Nepomuceno and Acosta contributed equally]
- 2020 Dudel, Christian, Tim Riffe, **Enrique Acosta**, Alyson A. van Raalte, Cosmo Strozza, and Mikko Myrskylä. “[Monitoring Trends and Differences in COVID-19 Case Fatality Rates Using Decomposition Methods: Contributions of Age Structure and Age-Specific Fatality.](#)” *PLOS ONE*, 15(9): e0238904.
- 2020 Gagnon, Alain, **Enrique Acosta**, and M.S. Miller. “[Age-specific incidence of influenza A responds to the change in virus subtype dominance.](#)” *Clinical Infectious Diseases*, (ciaa075).
- 2019 **Acosta, Enrique**, S.A. Hallman, N. Ouellette, R. Bourbeau, D.A. Herring, K. Inwood, L. Dillon, D.J. Earn, J. Madrenas, M.S. Miller, A. Gagnon. “[Determinants of Influenza Mortality Trends. Age-Period-Cohort Analysis of Influenza Mortality in the United States 1959-2016.](#)” *Demography*, 56 (5).
- 2019 **Acosta, Enrique**, Alyson van Raalte. “[APC-Curvature Plots: Displaying Nonlinear Age-Period-Cohort Patterns on Lexis Plots.](#)” *Demographic Research*, 41 (42).
- 2018 Gagnon, Alain, **Enrique Acosta**, S. Hallman, R.R. Bourbeau, L. Dillon, D.J. Earn, D.A. Herring, K. Inwood, J. Madrenas, and M.S. Miller. “[Pandemic paradox: Early life pandemic influenza infection enhanced susceptibility to death during the 2009 H1N1 pandemic.](#)” *mBio*, 9 (1).
- * [Gagnon, Acosta, and Miller contributed equally]
- 2018 Gagnon, Alain, **Enrique Acosta**, and M.S. Miller. “[Reporting and evaluating influenza virus surveillance data: An argument for incidence by single year of age.](#)” *Vaccine* 36 (42).
- 2015 Gagnon, Alain, **Enrique Acosta**, J. Madrenas and M.S. Miller. “[Is Antigenic Sin always "original?": Re-examining the evidence regarding the circulation of a human H1 influenza virus immediately prior to the 1918 Spanish Flu.](#)” *PLOS Pathogens* 11(3).
- Book chapters**
- 2024 Alburez-Gutierrez, Diego and **Enrique Acosta**. “Measuring Bereavement as a Consequence of War,” in “Handbook on Conflict and Health.” Edited by Amy Hagopian and Marion Birch, De Gruyter. *Forthcoming*.
- 2022 **Acosta, Enrique**. “La surmortalité des baby-boomers au Canada et aux États-Unis,” in “[L'éclairage de la démographie : Mesurer pour mieux comprendre les enjeux sociaux.](#)” Edited by Victor Piché, Céline Le Bourdais, Richard Marcoux, and Nadine Ouellette. Les Presses de l'Université de Montréal. ISBN 9782760644830.
- Other publications**
- 2023 **Acosta, Enrique**, Frédéric Fleury-Payeur, and Alexandre Paquette. [Méthodologie du modèle d'estimation de la surmortalité.](#) *Institut de la statistique du Québec*.
- 2022 - 2024 Leader of analysis of changes in stillbirths and deaths for children and youth during the COVID-19 pandemic for the reports of the *United Nations Inter-agency Group for Child Mortality Estimation (UN-IGME)*: “[Levels & Trends in Child Mortality report 2021](#)”, “[Levels & Trends in Child Mortality report 2022](#)”, and “[Never Forgotten The situation of stillbirth around the globe 2022.](#)”

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2019 Acosta, Enrique. “[Age, period, and cohort effects on adult mortality due to extrinsic causes of death.](#)” Doctoral thesis. *Université de Montréal*.

Working Papers

Ugarte, Ana C Gómez, Irena Chen, **Enrique Acosta**, Ugofilippo Basellini, and Diego Alburez-Gutierrez. “The effect of war on Palestinian life expectancy in 2023.”

Acosta, Enrique, Alain Gagnon, Nadine Ouellette, Robert Bourbeau, Marília Nepomuceno, and Alyson van Raalte. “[The boomer penalty: excess mortality among baby boomers in Canada and the United States.](#)” *MPIDR Working Paper Series WP-2020-003*.

Adarsh, **Enrique Acosta**, Hill Kulu, and Mikko Myrskylä. “Deviating Temporal Trends Of Substance Abuse Mortality In High-Income Countries”

Pifarré i Arolas, Héctor, **Enrique Acosta**, José Andrade, Peng Li, and Mikko Myrskylä. “Years lived and lost from an overlapping cohorts perspective.”

Invited Talks

A complete list is available on request. I have been invited to give talks at the Technical Advisory Group of the United Nations Inter-agency Group for Child Mortality Estimation (UN IGME); WHO Technical Advisory Group (TAG) on COVID-19 Mortality Assessment; Instituto Brasileño de Geografía y Estadística (IBGE); Space-Time Analysis Bayes (STAB) group at the University of Washington, the WHO – CA-CODE group, UN-RGHS Task Force on all-cause mortality and life table estimation; Centro de Estudios Demográficos, Urbanos y Ambientales at Colmex, Mexico; Congreso Internacional de la Asociación Latinoamericana de Población (ALAP); Universidad Nacional de Córdoba; Asian Demographic Research Institute at the Shanghai University; Department of demography at the Université de Montréal; Cedeplar at the Universidade Federal de Minas de Gerais; Programa de Población at the Universidad de la República, Uruguay; and Demographic Conference of Young Demographers, organized by Charles University, Czech Republic.

Special Issue Guest Editor

Canadian Studies in Population, Special Issue on Population Health and COVID-19 (2021)

Conference Presentations

Full list is available on request. I have given oral and poster presentations at large international, European, and Northern American demography conferences, including the International Population Conference (IPC) of the International Union for the Scientific Study of Population (IUSSP), the Population Association of America Annual Meeting (PAA), the European Population Conference (EPC), the Congreso Internacional de la Asociación Latinoamericana de Población (ALAP), EAPS Health, Morbidity and Mortality Working Group (HMMWG), Réseau espérance de vie en santé (REVES), The Colloque de l'Association des démographes du Québec (ADQ), the Federation of Canadian Demographers Conference (FCD), and the Conference of the European Society of Historical Demography (ESHD).

Grants and Fellowships

Postdoctoral Grant, **Ramón y Cajal** – *Agencia Estatal de Investigación del gobierno de España* (2023-2027). Amount: 236,650 EUR.

Postdoctoral Grant, **Beatriz de Pinós*** – *Generalitat de Catalunya* (2023-2025). Amount: 143,000 EUR.

* Declined for **Ramón y Cajal** postdoctoral grant.

Postdoctoral Grant, **Fonds de Recherche de Québec – Société et Culture (FRQSC)** (2020-2021). * Amount: 110,000 CAD.

* First place. Merged with the SSHRC postdoctoral fellowship.

Postdoctoral Grant, **Social Sciences and Humanities Research Council (SSHRC)** of Canada (2020-2021). Amount: 90,000 CAD.

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Doctoral Grant **Joseph-Armand Bombardier**, *Social Sciences and Humanities Research Council (SSHRC) of Canada* (2015-2018). Amount: 105,000 CAD.

Doctoral Fellowship, **Max Planck Institute for Demographic Research**, Laboratories Lifespan Inequalities and Population Health (2018-2019). Amount: 36,000 EUR.

Excellence Scholarship for full Master studies - **Universidad Distrital de Bogotá** (2009-2011). Amount: 15,000 USD.

Awards and Honors

Excellence award for best doctoral student – Department of demography, *Université de Montréal* (2020).

Dean's list of honor - *Université de Montréal* (2020).

Doctoral thesis [selected](#) as the best within the Arts, human, and social sciences category to represent the Université de Montréal for Canada's Distinguished Dissertation Awards ACES/UMI (2020).

Doctoral dissertation with the mention of *Exceptional* – the highest distinction – Department of Demography, *Université de Montréal* (2019).

Top ten graduating Industrial Engineers in Colombia among 4,420 students in 2007 (top 0.2%) - Distinction of the *National Government of Colombia* (2007).

Best graduating Industrial Engineer from the cohort - *Universidad Distrital de Bogotá* (2007).

Honors thesis in B.Eng. Industrial Engineering with the mention of “meritorious” – Distinction of the *Universidad Distrital de Bogotá* (2007).

Thesis in B.A. Sociology postulated by the jury upon the best memories of the Faculty of Humanities and Social Sciences - *Universidad Nacional de Colombia* - (2007-2008).

Teaching Experience

Lecturer

[European Doctoral School of Demography \(EDSD\)](#)

- *Analysis of Mortality Disturbances* – 2023-Ongoing

[International Max Planck Research School for Population, Health and Data Science \(IMPRS-PHDS\)](#) - Doctoral program

- *Mortality Trends* – 2019-2022

[Universidad de la República de Uruguay \(UDELAR\)](#) - *Programa de población* - Masters program

- *Demographic Analysis of Mortality* – 2022

Invited Lecturer

February 2022 – *Université de Montréal*, Department of demography, Montreal, Canada.

November 2021 – *Universidad Nacional de Córdoba*, Facultad de Ciencias Económicas, Postdoctoral Program in Demography, Córdoba, Argentina.

October 2021 – *Universidad de la República de Uruguay*, Programa de Población. Master in Demography, Montevideo, Uruguay.

April 2016 – *Departamento Administrativo Nacional de Estadística – DANE*, Equipo de Proyecciones de Población y Análisis Demográfico, Bogota, Colombia.

Teaching Assistant

Université de Montréal - Department of Demography, Canada: *Methods in Historical Demography* (DMO6330); *Statistical Methods for Demography* (DMO6371), *Economy and Population* (DMO3450), *Statistical Methods for Demography* (DMO6371), *Survival Analysis* (DMO6405)

Doctoral Students (main advisor)

Adarsh (U. St-Andrews - UK & Max Planck Institute for Demographic Research - Germany) 2021–. Topic: Age-Period-Cohort patterns of mortality from substance abuse in high-income countries

Gonzalo de Armas (U. de la República - Uruguay) 2022–. Topic: Mortality transitions in Latin American populations

Thesis Committee Member

Harold Mera (PhD, Universidad Pompeu Fabra), examiner 2024

Paula Castro (PhD, Centre d'Estudis Demogràfics - CED), examiner 2024

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Florencia Bathory (MSc, Universidad Nacional de Luján), examiner 2024
Maria Gargiulo (MSc, European Doctoral School in Demography), examiner 2024
Maria Laura Lopes Miranda (MSc, UFMG - CEDEPLAR), examiner 2023
Amanda Martins (MSc, European Doctoral School in Demography), examiner 2023
Giacomo Baldi (MSc, European Doctoral School in Demography), examiner 2023

Other Relevant Training

International Advanced Studies in Demography at the Max Planck Institute for Demographic Research (MPIDR), Rostock, Germany in *Advances in Mortality Forecasting; Life Table and Decomposition Analysis for Population Health Research; Smoothing Demographic Data: Flexible Models in Population Studies; Statistical Analysis in the Lexis Diagram: Age-Period-Cohort Models*

Selected Press Coverage

[Nature Middle East](#) (2024), [Haaretz](#) (2024), [Deutsche Welle](#) (2023), [El Mundo](#) (2023), [El País](#) (2021), [Fantástico](#) (2021), [Liberation](#) (2020), [The Guardian](#) (2020), [Nature Medicine](#) (2020), [Les Echos](#) (2020), [Alternatives Économiques](#) (2020), [El País](#) (2020), [El Espectador](#) (2020). [Nexo](#) (2020), [Associated Press](#) (2020).

Scientific Evaluation

Postdoctoral Grants Juan de la Cierva (2023), Spanish Agencia Estatal de Investigación.
BRAIN-be 2.0 research program (2020), Belgian Science Policy Office.
European Population Conference 2024 (Edinburg), Convener of Health, Morbidity and Wellbeing
European Consortium of Sociological Research (ECSR) 2024 (Barcelona), Scientific Committee.
REVES meeting 2024 (Bogotá), Scientific Committee.

Journals Reviewed for

Nature, PNAS, Demography, International Journal of Epidemiology, American Journal of Epidemiology, American Journal of Public Health, European Journal of Population, Health Affairs, Demographic Research, and Genus, among others.

Languages

English (Fluent); French (Fluent); Spanish (Native)

Software Skills

R, Excel

Other Experience

UN-UNICEF – Leader of analysis of excess stillbirths and deaths for children and youth during the COVID-19 pandemic in 2020, 2021, and 2022 at the United Nations Inter-Agency Group for Child Mortality Estimation (UN-IGME) (2021-2023). “[Levels & Trends in Child Mortality report 2021](#)”, “[Levels & Trends in Child Mortality report 2022](#)”, and “[Never Forgotten The situation of stillbirth around the globe 2022](#).”

UN-WHO – Observer member of the WHO [Technical Advisory Group \(TAG\) on COVID-19 Mortality Assessment](#) (2021-2024).

Institut de la statistique du Québec – Methodological design for the measurement of the excess mortality from all causes of death (2021).

Administrative National Department of Statistics of Colombia (DANE) – Demographic consultant team member for mortality estimation methodology. (2016). Under the direction of Robert Bourbeau, Ph.D. and Simona Bignami, Ph.D.

Université de Montréal – Research Assistant (2013 – 2018)

National University of Colombia – Management Process Reporting and Data Bases Coordinator (2010-2011).

Institute for Social Economy (IPES), City Hall of Bogota – Project Coordinator for social and economic empowerment of populations victims of violent displacement (2008-2010).

Academic References

Available upon request