

**Personal
Information**

acosta@demogr.mpg.de and kikepaila@gmail.com

Research Gate: https://www.researchgate.net/profile/Enrique_Acosta4

MPIDR personal page: <https://blnk.in/IWz4g6>

OSF: <https://osf.io/ac6xg/>

ORCID ID: <https://orcid.org/0000-0001-6250-4018>

**Current
Position**

Research Scientist

Max Planck Institute for Demographic Research (MPIDR), Rostock, Germany

Research Group: Population Health.

Research Group Leader: Mikko Myrskylä, Ph.D.

Education

Ph.D. in Demography (2019) *

Université de Montréal, Canada

Advisors: Alain Gagnon, Ph.D. and Nadine Ouellette, Ph.D.

M.Sc. in Demography (2013) ***

Université de Montréal, Canada

B.A. (Hons) in Sociology (2008) **

Universidad Nacional de Colombia, Colombia

B.Eng. (Hons) in Industrial Engineering (2007) *

Universidad Distrital de Bogotá, Colombia

* with highest distinction

** with distinction

*** accelerated in the doctoral program

**Research
Interests**

Mortality trends, Age-Period-Cohort effects, Extrinsic and Behavioral causes of death, Epidemics (influenza, COVID-19, drug overdoses), Demography of violence.

**Peer-
reviewed
Publications**

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*. <https://doi.org/10.1371/journal.pone.0238904>

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). <https://doi.org/10.1073/pnas.2008760117>

* [Nepomuceno and Acosta contributed equally]

2020 Gagnon, Alain, **Enrique Acosta**, and M.S. Miller. "Age-specific incidence of influenza A responds to change in virus subtype dominance." *Clinical Infectious Diseases*, (ciaa075). <https://doi.org/10.1093/cid/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).
<https://doi.org/10.1007/s13524-019-00824-z>

2019 Acosta, Enrique, Alyson van Raalte. “APC-Curvature Plots: Displaying Nonlinear Age-Period-Cohort Patterns on Lexis Plots.” *Demographic Research*, 41 (42). <https://doi.org/10.4054/DemRes.2019.41.42>

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).
<https://doi.org/10.1128/mBio.02091-17>

* [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). <https://doi.org/10.1016/j.vaccine.2018.08.077>

2015 Gagnon, Alain, **Enrique Acosta**, J. Madrenas and M.S. Miller. “Is Antigenic Sin always “original?”: Re-examining the evidence regarding circulation of a human H1 influenza virus immediately prior to the 1918 Spanish Flu.” *PLoS Pathogens* 11(3). <https://doi.org/10.1371/journal.ppat.1004615>

Under Review

Acosta, Enrique, Alain Gagnon, Nadine Ouellette, Robert Bourbeau, Marília Nepomuceno, Alyson van Raalte. “The boomer penalty: excess mortality among baby boomers in Canada and the United States.” *MPIDR Working Paper Series WP-2020-003*. <https://doi.org/10.4054/MPIDR-WP-2020-003>

Riffe Tim*, **Acosta Enrique***, et al. “COVeAGE-DB: A database of age-structured COVID-19 cases and deaths.” Preprint. *MedRxiv*.
<https://www.medrxiv.org/content/10.1101/2020.09.18.20197228v1>

* [Riffe and Acosta contributed equally]

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.” reprint. *SocArXiv*. <https://osf.io/gveaj>

Working Papers

Acosta, Enrique, Catalina Torres, Rafael Silva-Ramírez, Robert Bourbeau. “Violence and External Mortality in Colombia: Analysis of Demographic Costs During the Period 1979-2016.”

Nepomuceno, Marilia, Alyson van Raalte, **Enrique Acosta**. “Rising midlife mortality among US Whites: A cohort survival comparison.”

Data Bases

Riffe Tim, **Acosta Enrique**, et al. (2020) COVeAGE-DB: A database of COVID-19 cases and deaths by age. <https://osf.io/mpwjq/>

* [Riffe and Acosta contributed equally]

Invited Talks

Acosta Enrique (October 2020) Age and COVID-19. Université de Montréal, Department of Demography, (Planned digital talk).

Acosta Enrique (May 2020) Cohort effects on Influenza mortality during epidemics and pandemics. Universidade Federal de Minas de Gerais,

CEDEPLAR, Brazil (Digital talk).

Acosta Enrique (May 2020) Impactos de las pandemias de Influenza y COVID-19 en América Latina. Universidad de la República. Programa de Población, Uruguay (Digital talk).

Acosta Enrique (February 2020) Age-Period-Cohort Analysis: Limitations and Possibilities. *Keynote Speaker* in the 11th Demographic Conference of Young Demographers. Faculty of Science, Charles University, Czech Republic.

Guest Editor Canadian Studies in Population, [Special Issue on Population Health and COVID-19](#) (2020)

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 Congreso Internacional de la Asociación Latinoamericana de Población (**ALAP**), 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, Fonde de Recherche de Québec – Société et Culture (FRQSC) (2020-2022). Amount: 110,000 CAD.

* First place

Postdoctoral Grant, Social Sciences and Humanities Research Council (SSHRC) of Canada (2020-2022). Amount: 90,000 CAD.

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

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

Entrance Scholarship, Quebec inter-University Centre for Social Statistics (QICSS), (2017). Amount: 2,000 CAD.

Scholarships to attend International Advanced Studies in Demography at MPIDR (2016-2017). Amount: 1,800 EUR.

Excellence admission scholarship, Faculté des études supérieures, Université de Montréal, (2014). Amount: 4,000 CAD.

Scholarship for transfer from Masters to Ph.D. (2014-2015). Amount: 14,000 CAD.

Competitive travel grants for students, Population Change and Life course Strategic Knowledge Cluster (2014). Amount: 2,000 CAD.

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

Awards and Honors

- Distinction of the Université de Montréal - Dean's list of honor
- Doctoral thesis [selected](#) as the best within the Arts, human and social sciences category to represent the Université de Montréal for the Canada's Distinguished Dissertation Awards ACES/UMI (2020)
- Distinction of the Université de Montréal - Doctoral dissertation with the mention of "exceptional" – the highest distinction
- Distinction of the National Government of Colombia - Top ten graduating Industrial Engineers in Colombia among 4,420 students (top 0.2% of Colombian graduates) (2007).
- Distinction of the Universidad Distrital de Bogotá - Best graduating student from Industrial Engineering at the University (2007).
- Distinction of the Institute of Industrial Engineers (IIE) - Best result of national quality exams of higher education (ECAES) in Industrial Engineering in the University (2006).
- Distinction of the Universidad Distrital de Bogotá – Honours thesis in B.Eng. Industrial Engineering with the mention of "meritorious" (2007).
- Distinction of the Universidad Nacional de Colombia - Honours thesis in B.A. Sociology postulated by the jury upon the best memories of the Faculty (2007-2008).

Research Experience

Ph.D. Research Fellow (2019)

Max Planck Institute for Demographic Research (MPIDR), Rostock, Germany.
Research Group: Population Health.
Research Group Leader: Mikko Myrskylä, Ph.D

Ph.D. Research Fellow (2018 – 2019)

Max Planck Institute for Demographic Research (MPIDR), Rostock, Germany
Project: Lifespan Inequalities: Why the age-at-death distribution varies between countries and socioeconomic groups - LIFEINEQ.
Research Group Leader: Alyson van Raalte, Ph.D.

Research Assistant (2016 – 2018)

Project: The lasting effects of influenza: Defining the causes and consequences of early life exposures on age-specific mortality later in life, 1890-2015.
Canadian Institutes for Health Research.
Research Group Leader: Alain Gagnon, Ph.D.

Research Assistant (2013 – 2016)

Project: Mortality risks in later life from exposure to pandemic influenza in early life: the 1890 and 1918 influenza pandemics in Canada.
Canadian Institutes for Health Research.
Research Group Leader: Alain Gagnon, Ph.D.

Teaching Experience

Lecturer

International Max Planck Research School for Population, Health and Data Science (PHDS)
- Lecturer in *Mortality Trends* – November 2020

- Lecturer in *Mortality Trends* – November 2019

Departamento Administrativo Nacional de Estadística – DANE, Equipo de Proyecciones de Población y Análisis Demográfico

- Workshop on *Methods for Mortality Estimation* – April 2016

Substitute Lecturer

Université de Montréal - Department of Demography, Montreal, Canada

- Several sessions of the course *Statistical Methods for Demography* (DMO6371) – Fall 2017

Teaching Assistant

Université de Montréal - Department of Demography, Canada

- *Methods in Historical Demography* (DMO6330) – Winter 2017
Professor: Lisa Dillon, Ph.D.
- *Statistical Methods for Demography* (DMO6371) – Fall 2015
Professor: Thomas Legrand, Ph.D.
- *Economy and Population* (DMO3450) – Fall 2015
Professor: Thomas Legrand, Ph.D.
- *Statistical Methods for Demography* (DMO6371) – Fall 2014
Instructor: James Lachaud, Ph.D.
- *Survival Analysis* (DMO6405) – Winter 2014
Professor: Alain Gagnon, Ph.D.

Other Relevant Training

Life Table and Decomposition Analysis for Population Health Research (using R). Max Planck Institute for Demographic Research (MPIDR), Rostock, Germany. June 2018.

Smoothing Demographic Data: Flexible Models in Population Studies. Max Planck Institute for Demographic Research (MPIDR), Rostock, Germany. June 2017.

Visualizing Data. Max Planck Institute for Demographic Research (MPIDR), Rostock, Germany. June 2017.

Statistical Analysis in the Lexis Diagram: Age-Period-Cohort Models. Max Planck Institute for Demographic Research (MPIDR), Rostock, Germany. May 2016.

Analyse des micro-données des recensements historiques canadiens.

Centre interuniversitaire québécois de statistiques sociales (CIQSS), Montreal, Canada. May 2015.

Research Course in historical demography. Center for economic demography, Lund University, Lund, Sweden. August 2014.

Press Coverage

The Guardian “More than 250 epidemiologists and public health experts have called for a drastic increase in Covid-19 testing in Latin America and the Caribbean to tackle the spread of the coronavirus.”

<https://bit.ly/31ajCsd>

Nature Medicine: “Low- and middle-income countries face up to COVID-19” Mai 2020. <https://www.nature.com/articles/d41591-020-00020-2>

Les Echos. “L'impossible bilan comparatif des morts du Covid-19.” Avril 2020. <https://www.lesechos.fr/monde/enjeux-internationaux/limpossible-bilan-comparatif-des-morts-du-covid-19-1198167>

Alternatives Économiques : “ENTRETIEN « En Amérique latine, l'ampleur de l'épidémie est largement sous-estimée » Avril 2020.

<https://www.alternatives-economiques.fr/amerique-latine-lampleur-de-lepidemie-largement-estime/00092487>

El País. “¿Y si el coronavirus hubiese llegado a todos los países por igual?”,

Juin 2020. <https://elpais.com/ciencia/2020-06-28/y-si-el-coronavirus-hubiese-llegado-a-todos-los-paises-por-igual.html>

El Espectador: “Expertos advierten la necesidad de ampliar la cobertura de pruebas COVID-19 en América Latina”. Avril 2020.

<https://bit.ly/321OtGx>

Nexo. “A importância de testar a população para enfrentar a covid-19.” Avril

2020. <https://www.nexojornal.com.br/ensaio/debate/2020/A-import%C3%A2ncia-de-testar-a-popula%C3%A7%C3%A3o-para-enfrentar-a-covid-19>

The New York Times. “Venezuela's Go-To Test for Fighting Virus Raising Questions” Avril 2020.

<https://www.nytimes.com/aponline/2020/04/17/world/americas/ap-lt-virus-outbreak-venezuela.html>

Associated Press. “In Ecuador, Families Wait With Their Dead as Bodies Pile Up.” March 2020.

<https://apnews.com/ccf626dfa46e62da38cb7faa938aa3b8>

UdeM Nouvelles. “What was your first flu?” January 31, 2020.

<https://nouvelles.umontreal.ca/en/article/2020/01/30/what-was-your-first-flu/>

**Journals
Reviewed for**

Demography, American Journal of Epidemiology, International Journal of Epidemiology, Health Affairs, Epidemiology and Infection, BMJ Open, PLOS One, PeerJ

Languages

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

**Advanced
Software Skills**

R, RStudio; STATA; Excel and Visual Basic

**Other
Employment
Background**

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

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

Project Coordinator on empowerment of the vulnerable population for social and economic integration (2008-2010). City Hall of Bogota, Institute for Social Economy-IPES, Colombia

**Academic
References**

Available upon request