

## Curriculum Vitae

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**Timothy L. M. Riffe**  
**(Tim Riffe)**

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(updated 6 May 2024)

### Personal Information:

**Surname:** Riffe | **First Name:** Timothy | **Middle Names:** Lloyd Merrell

**Nationality:** USA

**Email:** tim.riffe@ehu.eus or tim.riffe@gmail.com or riffe@demogr.mpg.de

**Current:** Ikerbasque Research Fellow  
Basque Foundation for Science  
Bilbao, Spain

Profile: <https://www.ikerbasque.net/es/tim-riffe>

Ikerbasque Visiting professor,  
OPIK, Department of Sociology and Social Work  
University of the Basque Country (UPV/EHU)  
Leioa, Spain  
Profile: <https://www.ehu.eus/en/web/opik/tim-riffe>

Guest Researcher,  
Max Planck Institute for Demographic Research  
Rostock, Germany  
Profile:

[https://www.demogr.mpg.de/en/about\\_us\\_6113/staff\\_directory\\_1899/timothy\\_riffe\\_2198/](https://www.demogr.mpg.de/en/about_us_6113/staff_directory_1899/timothy_riffe_2198/)

**ORCID:** <https://orcid.org/0000-0002-2673-4622>

**Twitter:** [@timriffe1](https://twitter.com/timriffe1)

### Education:

**Sept. 2009 – June 2013:** Universitat Autònoma de Barcelona, Spain. Doctorat de Demografia (PhD program in Demography), Centre for Demographic Studies and Department of Geography. PhD thesis “The two-sex problem in populations structured by remaining years of life” directed by Dr. Albert Esteve Palós, defended in June 26, 2013. Received maximum Cum Laude qualification, European Mention, and later received an *extraordinary doctorate* award (premi extraordinari de doctorat). Research-Trainee (FI) funding from the Catalanian Government (AGAUR).

**Sept. 2009 – Aug. 2010:** European Doctoral School of Demography (EDSD), Max Planck Institute for Demographic Research (Rostock, Germany) and Lund University, Department of Economic Demography (Lund, Sweden). Thesis title: “The Maternal Mortality Incidence Rate (MMIR)” Funded by FI grant from the AGAUR.

**Sept. 2007 – 2009:** Universitat Autònoma de Barcelona, Spain. Master Oficial d'Estudis Territorials i de la Població (Regional and Population Studies), Department of Geography, Universitat Autònoma de Barcelona and Centre for Demographic Studies. Master thesis directed by Dr. Albert Esteve Palós presented in June, 2009.

**June – July, 2009:** ICPSR summer statistics courses for the social sciences held at the University of Michigan in Ann Arbor, Michigan, USA.

**Oct. 2005 – Sept. 2007:** Albert-Ludwigs-Universität, Freiburg, Germany. Non-degree concentrations in Sociology, Geography, and Rural Conservation.

**Sept. 2001 – Apr. 2006:** University of Michigan, Ann Arbor. Bachelor of Arts with Distinction, Concentration in Philosophy with minor in German. Five times University Honors. GPA: 3.734

**Sept. 2000 – Dec. 2000:** Washtenaw Community College, Ann Arbor. Non-degree Major in Humanities & Social Sciences. GPA 3.90

**Sept, 1999 – June, 2000:** DePaul University, Chicago. non-degree Major in Philosophy. Presidential Scholarship. University Honors. National Society of Collegiate Scholars. GPA 3.877

#### **Work:**

**2021 - present:** Ikerbasque Visiting Professor, University of the Basque Country (UPV/EHU), Leioa, Spain

**2021 - present:** Research Fellow, Ikerbasque (Basque Foundation for Science), Bilbao, Spain

**2015 – 2021:** Research Scientist, Max Planck Institute for Demographic Research, Rostock, Germany.

**2012 – 2015:** Scientific Programmer & Country Specialist, Human Mortality Database, University of California, Berkeley

**2008 – 2012:** Centre for Demographic Studies, Bellaterra, ES. Research Assistant

#### **Consulting:**

**2017 - 2023:** United Nations Population Division. I coordinate the development of two R packages implementing and documenting methods most recently used in production for the 2022 World Population Prospects. This work has spanned five separate consultancies, and further work is foreseen for 2024.

#### **Grants:**

Multistate Healthy Life Expectancy Decomposition (MultiLED), Caixa Foundation. SR22-00502. 12-2022 - 12-2024. 100000 EUR. role: principal investigator

Multidimensional Social Inequalities as Demographic Determinants: Mortality Inequalities, Excess Mortality, and Working Life Expectancy (WorkDeathIneq), Spanish Ministerio de Ciencia e Innovación (MCINN). PID2022-142762OA-I00. 1-9-2023 - 31-8-2027. 100000 EUR. role: principal investigator

#### **Peer-reviewed Papers:**

Magda Muszynska-Spielauer, **Tim Riffe**, Martin Spielauer (2024). Healthy lifespan statistics derived from

cross-sectional prevalence data using Sullivan's method are informative summary measures of population health. Comparative Population Studies. Vol. 49 DOI: <https://doi.org/10.12765/CPoS-2024-03>

Erika Valero Alzaga, Ainhoa Elozegui de Pérdigo, **Tim Riffe**, Unai Martín Roncero (2023) Consumo de tabaco de liar en el País Vasco: magnitud, desigualdades socioeconómicas y evolución en el periodo 2013-2018. Rev Esp Salud Pública.v 97: 1 de diciembre e202312103  
[https://www.sanidad.gob.es/biblioPublic/publicaciones/recursos\\_propios/resp/revista\\_cdrom/VOL97/ORIGINALES/RS97C\\_202312103.pdf](https://www.sanidad.gob.es/biblioPublic/publicaciones/recursos_propios/resp/revista_cdrom/VOL97/ORIGINALES/RS97C_202312103.pdf)

Jessie Yeung, Monica Alexander, **Tim Riffe** (2023) Bayesian implementation of Rogers-Castro model migration schedules: An alternative technique for parameter estimation. Demographic Research. DOI: <https://doi.org/10.4054/DemRes.2023.49.42>

Tianyu Shen, **Tim Riffe**, Collin Payne, and Vladimir Canudas Romo (2023) Decomposition of Differences in Health Expectancies from Multistate Life Table. Demography. DOI: <https://doi.org/10.1215/00703370-11058373>

José M Aburto, Vanessa di Lego, **Tim Riffe**, Ridhi Kashyap, Alyson van Raalte, Orsola Torrissi. (2023) A global assessment of the impact of violence on lifetime uncertainty. Science Advances 9(5) DOI: <https://doi.org/10.1126/sciadv.add9038>

Nikkil Sudharsanan, José Manuel Aburto, **Tim Riffe**, and Alyson van Raalte. (2022) Commentary: Large variation in the epidemiologic transition across countries: is it still valuable as a mortality theory? International Journal of Epidemiology. dyac107 DOI: <https://doi.org/10.1093/ije/dyac107>

Pascal Geldsetzer, Trasius. Mukama, Nadine Jawad, **Tim Riffe**, Angela Rogers, Nikkil Sudharsanan. (2022) Sex differences in the mortality rate for coronavirus disease 2019 compared to other causes of death. European Journal of Epidemiology. DOI: <https://doi.org/10.1007/s10654-022-00866-5>.

Aurelio Tobias, **Tim Riffe**, Diego Ramiro, Seri Trias-Llimos (2022) Forthcoming challenges for COVID-19 data collection. The Lancet Public Health. Correspondence. DOI: [https://doi.org/10.1016/S2468-2667\(22\)00029-9](https://doi.org/10.1016/S2468-2667(22)00029-9)

Sergi Trias-Llimos, Usama Bilal, Manuel Franco, Amand Blanes, **Tim Riffe** (2022) Caídas en esperanza de vida en 2020 y seroprevalencia por SARS-CoV 2. Gaceta Sanitaria. DOI: <https://doi.org/10.1016/j.gaceta.2021.07.002>

Christian Garcia, Angel Paternina-Caicedo, Adrian Smith, Lee H. Harrison, Fernando Pio de la Hoz Restrepo, Enrique Acosta, **Tim Riffe** (2021) COVID-19 mortality needs age adjusting for international comparisons. Journal of Medical Virology 93 (7) Pages 4127-4129 DOI: <https://doi.org/10.1002/jmv.27007>

Adrien Remund, Carlo Giovanni Camarda, **Tim Riffe** (2021) La surmortalité des jeunes adultes est-elle naturelle? (Is young adult excess mortality a natural phenomenon?). Population et Sociétés. Nr 590 French: <https://www.ined.fr/fr/publications/editions/population-et-societes/la-surmortalite-des-jeunes-adultes-est-elle-naturelle/> English: [https://www.ined.fr/fichier/s\\_rubrique/31532/590.population.societes.june.2021.young.adults.excess.mortality.en.pdf](https://www.ined.fr/fichier/s_rubrique/31532/590.population.societes.june.2021.young.adults.excess.mortality.en.pdf)

Héctor Pifarré i Arolas, Enrique Acosta, Guillem López-Casasnovas, Adeline Lo, Catia Nicodemo, **Tim Riffe**, and Mikko Myrskylä (2021) Years of life lost to COVID-19 in 81 countries. Scientific Reports. 11, 3504 DOI: <https://doi.org/10.1038/s41598-021-83040-3> (Code Repository)

**Tim Riffe**, Enrique Acosta, José Manuel Aburto, Diego Alburez-Gutierrez, Anna Altová, Ainhua Alustiza, Ugofilippo Basellini, Simona Bignami, Didier Breton, Eungang Choi, Jorge Cimentada, Gonzalo De Armas, Emanuele Del Fava, Alicia Delgado, Viorela Diaconu, Jessica Donzowa, Christian Dudel, Antonia Fröhlich, Alain Gagnon, Mariana Garcia-Crisóstomo, Victor M. Garcia-Guerrero, Armando González-Díaz, Irwin Hecker, Dagnon Eric Koba, Marina Kolobova, Mine Kühn, Mélanie Lépori, Chia Liu, Andrea Lozer, Mădălina Manea, Lilian Marey, Muntasir Masum, Ryohei Mogi, Céline Monicolle, Saskia Morwinsky, Ronald Musizvingoza, Mikko Myrskylä, Marília R. Nepomuceno, Michelle Nickel, Natalie Nitsche, Anna Oksuzyan, Samuel Oladele, Emmanuel Olamijuwon, Oluwafunke Omodara, Soumaila Ouedraogo, Mariana Paredes, Marius D. Pascariu, Manuel Piriz, Raquel Pollero, Larbi Qanni, Federico Reherrmann, Filipe Ribeiro, Silvia Rizzi, Francisco Rowe, Adil R. Sarhan, Isaac Sasson, Erez Shomron, Jiaxin Shi, Rafael Silva-Ramirez, Cosmo Strozza, Catalina Torres, Sergi Trias-Llimos, Fumiya Uchikoshi, Alyson van Raalte, Paola Vazquez-Castillo, Estevão A. Vilela, Muhammad Ali Waqar, Iván Williams, Virginia Zarulli (2021) Data Resource Profile: A global demographic database of COVID-19 cases and deaths (COVerAGE-DB). International Journal of Epidemiology, Volume 50, Issue 2, April 2021, Pages 390–390f, DOI <https://doi.org/10.1093/ije/dyab027>

Sergi Trias-Llimos, **Tim Riffe**, & Usama Bilal (2020) Monitoring life expectancy levels during the COVID-19 pandemic: Example of the unequal impact in Spanish regions. PlosOne DOI: <https://doi.org/10.1371/journal.pone.0241952>

Sergi Trias-Llimos, Ainhua Alustiza, Clara Prats, Aurelio Tobias, **Tim Riffe** (2020) The need for detailed COVID-19 data in Spain. The Lancet Public Health. Correspondence. DOI: [https://doi.org/10.1016/S2468-2667\(20\)30234-6](https://doi.org/10.1016/S2468-2667(20)30234-6)

Christian Dudel, **Tim Riffe**, Enrique Acosta, Alyson van Raalte, Cosmo Strozza, and Mikko Myrskylä (2020) Monitoring trends and differences in COVID-19 case fatality rates using decomposition methods: A demographic perspective. PlosOne. 15(9): e0238904 DOI <https://doi.org/10.1371/journal.pone.0238904> (Code Repository)

**Tim Riffe**, Marilia Nepomuceno, Ugofilippo Basellini (2020) Mortality modeling. Encyclopedia of Gerontology and Population Aging, Springer [https://link.springer.com/referenceworkentry/10.1007%2F978-3-319-69892-2\\_556-1](https://link.springer.com/referenceworkentry/10.1007%2F978-3-319-69892-2_556-1) (Code Repository)

**Tim Riffe** and Jose Manuel Aburto (2020) Lexis fields. Demographic Research. V. 42, pp 713-726 DOI <https://doi.org/10.4054/DemRes.2020.42.24> (Code Repository)

Jorge Cimentada, Sebastian Kluesener, **Tim Riffe** (2020) Exploring the Demographic History of Populations with Enhanced Lexis Surfaces. Demographic Research. V. 42, pp 149-164 DOI <https://doi.org/10.4054/DemRes.2020.42.6> (Code Repository)

Rosie Seaman, **Tim Riffe**, Leyland Alastair, Frank Popham, and Alyson van Raalte (2019) The Increasing Lifespan Variation Gradient by Area-Level Deprivation: a Decomposition Analysis of Scotland 1981-2011.

Social Science and Medicine.V. 230(June), pp 147-157 DOI  
<https://doi.org/10.1016/j.socscimed.2019.04.008> (Code Repository)

Rosie Seaman, **Tim Riffe**, and Hal Caswell (2019) [The changing contribution of area level deprivation to total variance in age at death: a population based decomposition analysis](#). BMJ Open. 9(3) DOI  
<https://doi.org/10.1136/bmjopen-2018-024952>. (Code Repository)

Ian Stewart, René Flores, **Tim Riffe**, Ingmar Weber, and Emilio Zagheni (2019) Rock, Rap, or Reggaeton?: Assessing Mexican Immigrants' Cultural Assimilation Using Facebook Data. *Proceedings of the 2019 World Wide Web Conference*. pp 3258--3264 DOI: <http://doi.acm.org/10.1145/3308558.3313409> (Code Repository)

Jose Manuel Aburto, **Tim Riffe**, and Vladimir Canudas Romo (2018) [Trends in avoidable mortality over the life course in Mexico, 1990-2015: A cross-sectional demographic analysis](#). BMJ Open. 8(7) DOI  
<https://doi.org/10.1136/bmjopen-2018-022350> (Code Repository)

Adrien Remund, Carlo Giovanni Camarda, and **Tim Riffe** (2018) [A cause-of-death decomposition of the young adult excess mortality](#). Demography V. 55(3), pp 957-978. DOI  
<https://doi.org/10.1007/s13524-018-0680-9>

**Tim Riffe**, Jonas Schöley, and Francisco Villavicencio [A unified framework of demographic time](#). (2017) Genus. 73(7) DOI <https://doi.org/10.1186/s41118-017-0024-4> (Code Repository)

**Tim Riffe**, Pil H. Chung, Jeroen Spijker, and John MacInnes [Time-to-death patterns in markers of age and dependency](#) (2016) Vienna Yearbook of Population Research 2016. v14. pp 229-254 DOI  
<https://doi.org/10.1553/populationyearbook2016s229> (Code Repository) Previously posted as MPIDR Working Paper WP-2015-008.

Francisco Villavicencio and **Tim Riffe** (2016) [Symmetries between life lived and left in finite stationary populations](#), Demographic Research. V. 34, pp 381-398 DOI <https://doi.org/10.4054/DemRes.2016.35.14>

Magali Barbieri, John R Wilmoth, Vladimir M. Shkolnikov, Dana Gleit, Domantas Jasilionis, Dmitri Jdanov, **Tim Riffe**, Pavel Grigoriev, and Celeste Winant (2015) [Data Resource Profile: The Human Mortality Database \(HMD\)](#) International Journal of Epidemiology 44(5) pp 1549–1556 DOI  
<https://doi.org/10.1093/ije/dyv105>

**Tim Riffe** (2015) [The force of mortality by life lived is the force of increment by life left in stationary populations](#), Demographic Research. V. 32, pp 827-834 DOI <https://doi.org/10.4054/DemRes.2015.32.29>

Albert Esteve, Jeroen Spijker, **Tim Riffe** and Joan García (2012) [Spousal and parental roles among female student populations in 55 low- and middle- income countries](#), Vienna Yearbook of Population Research. V. 2012, pp 77-94

#### **Papers submitted, in review, or in revision:**

Margherita Moretti, **Tim Riffe**, and Angelo Lorenti (2023) Multistate analysis and decomposition of disability-free life expectancy trends in Italy 2004-2019.

Magda Muszynska-Spielauer and **Tim Riffe**. Life expectancy under a stationary population composition.

**Tim Riffe**, Kieron Barclay, Sebastian Klüsener, and Christina Bohk-Ewald. Boom, echo, pulse, flow: 385 years of Swedish births.

### **Working papers, technical reports, and others:**

Margherita Moretti, **Tim Riffe**, and Angelo Lorenti (2023) Multistate analysis and decomposition of disability-free life expectancy trends in Italy 2004-2019. MPIDR Working Paper WP-2023-030.  
<https://dx.doi.org/10.4054/MPIDR-WP-2023-030>

Tianyu Shen, **Tim Riffe**, Collin Payne, and Vladimir Canudas Romo (2023) Decomposition of Differences in Health Expectancies from Multistate Life Table. SocArXiv. <https://doi.org/10.31235/osf.io/xcp2f> (**now published in Demography**)

Magda Muszynska-Spielauer and **Tim Riffe**. Mortality rates, life tables and life expectancy under a stationary population composition. OSF preprints <https://doi.org/10.31219/osf.io/rnbf4>

José M Aburto, Vanessa di Lego, **Tim Riffe**, Ridhi Kashyap, Alyson A van Raalte, Orsola Torrisi (2022) A global assessment of the impact of violence on lifetime uncertainty. *socArXiv*.  
<https://doi.org/10.31235/osf.io/dzj4a> (**now published in Science Advances**)

Christina Bohk-Ewald, Enrique Acosta, **Tim Riffe**, Christian Dudel, Mikko Myrskylä (2021) Magnitude, global variation, and temporal development of the COVID-19 infection fatality burden. *medRxiv*.  
<https://doi.org/10.1101/2021.12.17.21267986>

**Tim Riffe**, Nikola Sander, and Sebastian Klüsener (2021) Editorial to the Special Issue on Demographic Data Visualization: Getting the point across – Reaching the potential of demographic data visualization. *Demographic Research*. <https://doi.org/10.4054/DemRes.2021.44.36>

Pascal Geldsetzer, Trasius. Mukama, Nadine Jawad, **Tim Riffe**, Angela Rogers, Nikkil Sudharsanan. (2021) Sex differences in the mortality rate for coronavirus disease 2019 compared to other causes of death. *medRxiv*. <https://doi.org/10.1101/2021.02.23.21252314> (**now published in the European Journal of Epidemiology**)

Héctor Arolas, Enrique Acosta, Guillem López Casasnovas, Adeline Lo, Catia Nicodemo, **Tim Riffe**, Mikko Myrskylä (2020) Global years of life lost to COVID-19. SocArXiv  
<https://doi.org/10.31235/osf.io/gveaj> (**now published in Scientific Reports**)

Sergi Trias-Llimos, **Tim Riffe**, & Usama Bilal (2020). Monitoring life expectancy levels during the COVID-19 pandemic: Example of the unequal impact in Spanish regions. *medRxiv*.  
<https://doi.org/10.1101/2020.06.03.20120972> (**now published in PlosOne**)

Christian Dudel, **Tim Riffe**, Enrique Acosta, Alyson van Raalte, and Mikko Myrskylä (2020) Monitoring trends and differences in COVID-19 case fatality rates using decomposition methods: A demographic perspective. Crossposted on Socarxiv <https://www.medrxiv.org/content/10.1101/2020.03.31.20048397v1> and *medRxiv* <https://www.medrxiv.org/content/10.1101/2020.03.31.20048397v1> (**now published in PlosOne**)

**Tim Riffe** and Jose Manuel Aburto (2019) [Lexis fields](#). MPIDR Working Paper WP-2019-001 (**now published in Demographic Research**)

**Tim Riffe**, Kieron Barclay, Sebastian Klüsener, and Christina Bohk-Ewald (2019) [Boom, echo, pulse, flow: 385 years of Swedish births](#). MPIDR Working Paper WP-2019-002

**Tim Riffe** and Nicolas Brouard (2018) [Structure and dynamics of populations: The ‘years-to-live’ pyramid, national aspects and regional examples](#). Socarxiv doi: [10.17605/OSF.IO/2UCYH](#) . An English **translation** of Brouard, Nicolas (1986) *Structure et dynamique des populations. La pyramide des années à vivre, aspects nationaux et exemples régionaux*. Espace, Populations, Sociétés vol.4 n°2, pp. 157-168, doi: 10.3406/espos.1986.1120

Adrien Remund, Carlo Giovanni Camarda, and **Tim Riffe** (2018) [Analyzing the young adult mortality hump in R with MortHump](#) MPIDR Technical Report TR-2018-003

J.R. Wilmoth, K. Andreev, D. Jdanov, D.A. Glei, and **T. Riffe** (2017) [Methods Protocol for the Human Mortality Database](#) (version 6)

**Tim Riffe**, Alyson van Raalte, and Maarten J. Bijlsma (2017) [Healthy life expectancy, mortality, and age prevalence of morbidity](#) MPIDR Working Paper WP-2017-015

Adrien Remund, Carlo Giovanni Camarda, and **Tim Riffe** (2017) [A cause-of-death decomposition of the young adult mortality hump](#). MPIDR Working Paper WP-2017-007 (**now published in Demography**)

**Tim Riffe**, Jonas Schöley, and Francisco Villavicencio (2015) [A unified framework of demographic time](#) MPIDR Working Paper WP-2015-008 (**now published in Genus**)

**Tim Riffe** (2015) [Renewal and stability in populations structured by remaining years of life](#) MPIDR Working Paper WP-2015-007

**Tim Riffe** (2015) [Reading Human Fertility Database and Human Mortality Database data into R](#) MPIDR Technical Report TR-2015-004

## Honors:

Mortality expert designation (2021, ongoing), Population Europe

EAPS Outreach Award (2018) For promoting data visualization in demography and open science practices.

Poster prize (2015) PAA annual meeting in San Diego. Poster session 4 “Time to death patterns in markers of age and dependency.”

Premi extraordinari de doctorat (2013), Universitat Autònoma de Barcelona

Doctor Europeus (2013), Universitat Autònoma de Barcelona

Cum Laude (2013), Universitat Autònoma de Barcelona

### Invited lectures:

**2023, Oct 16** Time perspectives influence narratives on population structure and health, Laboratory on Longevity and Ageing (LoLA) network, online.

**2023, Oct 4** Age patterns of excess mortality due to Covid-19. WHO RGHS Task Force 2 on all-cause mortality and life table estimation, online.

**2023, Sept 28** Uncertainty in healthy life years, CPoP Seminar Series, Odense, Denmark

**2023, Sept 26** Uncertainty in healthy life years, MPIDR Population Health Lab Talk, Rostock, Germany.

**2023, June 7** presentation “Reproducible Research: A practical workflow for publicly available data” Royal Statistical Society Glasgow Local Group. Online seminar.

**2023, March 7** presentation “Uncertainty in healthy life years” *Population and Health Research Group Seminar Series* University of St. Andrews, UK.

**2022, September 29** presentation. “Reflections on health and mortality research”. Workshop of the EAPS *Health, Morbidity, and Mortality Working Group* Charles University, Prague.

**2022, August 30 - Sept 2** presentation “Decomposing differences in multistate indices: Compositional reflections” *Climbing Mortality Models workshop*, Misurina, Italy

**2022, June 24** “Reproducible Open Science” Summer Institute in Computational Social Science (SICSS). Covenant University, Nigeria (online)

**2022, June 16-17:** “Inferring a mortality gradient from compositional change” 6th HMD Symposium, Paris, France

**2021, Dec 3:** presentation “Coding Decompositions” Formal Demography Working Group

**2021, Nov 11:** presentation “Decomposing differences in multistate indices” Seminar at Centre for Demographic Studies, Barcelona, Spain

**2021, Oct 12:** opening plenary “herramientas de la demografía nocturna” XVI Jornadas Argentina de Estudios de Población/ III Congreso Internacional de Población del Cono Sur (online)

**2021, Sept 22:** Cidacs/Fiocruz webinar on overcoming measurement challenges with mortality data (Como superar os desafios de mensuração da mortalidade?) “Mortality data quality with DemoTools” (online)

**2021, July 12:** SCOR Deep Talk “COVerAGE\*: how a group of researchers from around the globe got together to create the international database on COVID by age-band” SCOR Global Life, Paris, France (online)

**2020, Nov 6:** keynote, “La circularidad en los modelos multiestado: sombras, ecos, y reflexiones” IV Coloquio Internacional Estudiantil en Población, Ciudad y Ambiente.



Colmex, México (zoom)

**2020, June 6:** “The most demography thing ever: A database of COVID-19 cases and deaths by age and sex. Centre for Demographic Studies, Barcelona, Spain

**2020, April 8:** “Demographic methods for data evaluation, transformation and adjustments” United Nations virtual Expert Group Meeting on “Methods for the World Population Prospects 2021 and beyond”

**2020, Feb. 5-7:** keynote, “Alternative perspectives on health inequalities.” Young Demographers Conference. Charles University, Prague.

**2019, Dec. 18:** “Alignment, clocking, and macro patterns of episodes in the life course.” Centre for Demographic Studies, Barcelona, Spain

**2017, May 16:** “Extensions and applications of the Lexis diagram.” University of St. Andrews, UK

**2016, Oct. 6-7:** keynote “Demographic time, metabolism, and structure: Comments on Portugal and the EU.” V Portuguese Congress of Demography, Lisbon, Portugal

**2016, Aug. 18:** “A unified framework of demographic time” II Berkeley Formal Demography Workshop

#### **Presentations:**

**2024 (June 12-15, forthcoming),** EPC meeting in Edinburgh, UK “Decomposing a Sullivan expectancy: An indirect incidence-based approach”, with Rustam Tursun-zade

**2024 (May 22-24, forthcoming),** REVES meeting in Bogota, Colombia. “Decomposing a Sullivan expectancy: An indirect incidence-based approach”, with Rustam Tursun-zade

**2024 (May 22-24, forthcoming),** REVES meeting in Bogota, Colombia. “Arriaga meets Kitagawa: life expectancy decompositions including population subgroups”, with Rustam Tursun-zade and Sergi Trias Llimos.

**2024 (April 17-20),** PAA Annual Meeting in Columbus, OH, USA “Decomposing a Sullivan expectancy: An indirect incidence-based approach”, with Rustam Tursun-zade

**2023, Sept 20-22:** EAPS Health, Morbidity, and Mortality Working Group meeting. Budapest, Hungary. “Calculating a state occupancy distribution in multistate settings”, with Iñaki Permanyer, Rustam Tursun zade, and Magdalena Muszynska-Spielauer.

**2023, Sept 20-22:** EAPS Health, Morbidity, and Mortality Working Group meeting. Budapest, Hungary. “Sensitivity and decomposition of multistate healthy life expectancy” (poster), with Mauricio Gonzalez Forero and Francisco Villavicencio.

**2023, May 24-26:** REVES meeting. Padua, Italy. “Calculating a state occupancy distribution in multistate settings”, with Iñaki Permanyer, Rustam Tursun Zade, and Magdalena Muszynska-Spielauer.

**2023, May 24-26:** REVES meeting. Padua, Italy. “Sensitivity and decomposition of multistate healthy life

expectancy” (poster), with Mauricio Gonzalez Forero and Francisco Villavicencio.

**2021, May 26-28:** REVES meeting. Zoom. “Decomposing differences in multistate indices”

**2019, June 13-15:** Nordic Demography Symposium, Reykjavik, Iceland (poster) “Boom, echo, pulse, flow: 385 years of Swedish births”, with Kieron Barclay, Sebastian Klüsener, and Christina Bohk-Ewald. Also presented oral+poster at the XII Congreso de ADEH, Porto, Portugal **4-7 Sep, 2019**.

**2019, May 29-31:** REVES meeting in Barcelona, Spain “Prevalence and the variance of state occupancy time”

**2019, May 29-31:** REVES meeting in Barcelona, Spain (poster) “Changes in the death distribution in older ages: disablement, recovery, mortality, composition”, with Alyson van Raalte.

**2019, Apr 10-13:** PAA Annual Meeting in Austin, TX, USA. (poster) “Lexis Fields” with Jose Manuel Aburto.

**2019, Apr 10-13:** PAA Annual Meeting in Austin, TX, USA.. “Trends in United States Life Expectancy and Disability above Age 50: Delayed Onset, Improved Recovery, Mortality Change, or Compositional Change?” with Neil Mehta, Mikko Myrskylä, and Daniel Schneider.

**2018, May 30-June 1:** REVES meeting in Ann Arbor, MI, USA. “Healthy lives: Delayed onset, improved recovery, or mortality change?” with Neil Mehta, Mikko Myrskylä, and Daniel Schneider.

**2018, Apr 26-28:** PAA Annual Meeting in Denver, CO, USA. (poster) “Time spent and left of transient states in stationary populations”, with Francisco Villavicencio and Nicolas Brouard. Also presented as an oral presentation **2018, June 7-9:** EPC meeting in Brussels.

**2018, Mar. 14-16:** Statistische Woche in Köln, Germany. “Alignment, Clocking, and Macro Patterns of Episodes in the Life Course” also presented **2019, Dec 18** at CED, Barcelona, now with Andres Castro and Angelo Lorenti as coauthors. To be presented at ~~PAA 2020 in Washington DC~~, ~~SSA 2020~~, and ~~EPC 2020 in Padua~~. **EPC 2022**

**2017, Sep 29-30** Age-period-cohort workshop at Nuffield College, UK. “Selected properties of the generalized Lexis diagram” with Jonas Schöley.

**2017, Sep 19-22:** Statistische Woche in Rostock, Germany. “Morbidity dispersion and compression” with Maarten J. Bijlsma and Aïda Solé Auro. Also presented **2017, Oct. 31 - Nov 4:** XXVIII IUSSP International Population Conference in Cape Town, South Africa.

**2017, Sep 6-8:** British Society for Population Studies annual meeting in Liverpool, UK “Symmetries between life lived and life left” with Francisco Villavicencio.

**2017, Apr 27-29:** PAA Annual Meeting in Chicago. Discussant for session “Collection and quality assessment for data on adult mortality”.

**2017, Apr 27-29:** PAA Annual Meeting in Chicago “Domains of application for the demographic time

model”, with Jonas Schöley, Francisco Villavicencio, and Markus Göhler (poster)

**2016, May 26:** Fraunhofer Institute, Rostock “A selection of viz problems from demography”

**2016, Apr 13:** Kettering University “Birth, Death, and Thermodynamics” brown bag presentation.

**2016, Apr 12:** Kettering University “An overview of demography” brown bag presentation.

**2016, Mar 31-Apr 2:** PAA Annual Meeting in Washington D.C. Discussant for session “Complex demographic modeling”.

**2016, Mar 31-Apr 2:** PAA Annual Meeting in Washington D.C. “A non-parametric approach to decompose the young adult mortality hump by causes of death” with Adrien Remund (lead author) and Giancarlo Camarda (awarded poster prize).

**2016, Mar 31-Apr 2:** PAA Annual Meeting in Washington D.C. “Homicide, health, and deviations from best practices mortality: Mortality in Mexican states, 1990-2010” with Jose Manuel Aburto (lead author). Also presented as a poster at the **31 Aug-3 Sep, 2016** EPC conference in Mainz.

**2016, Mar 31-Apr 2:** PAA Annual Meeting in Washington D.C. “A Low Mortality Benchmark for the United States” with Adrien Remund, Magali Barbieri, and Celeste Winant. (poster)

**2016, Mar 31-Apr 2:** PAA Annual Meeting in Washington D.C. “Accounting for Temporal Variation in Morbidity” with Alyson van Raalte. Also presented **2017, Oct 31 - Nov 4:** XXVIII IUSSP International Population Conference in Cape Town, South Africa (under new title “Healthy life expectancy, mortality, and age prevalence of morbidity”)

**2015, Sep 17:** EAPS Workshop in Prague “Using Thanatological, Chronological and Period Components of Morbidity Patterns to Estimate Future Morbidity in the Context of Changing Mortality”, with Pil H. Chung and John MacInnes.

**2015, July 21:** MPIDR Lab of Population Health presentation “A Unified Model of Demographic Time”. Also presented at EAPS Health and Morbidity workshop held in Prague, **Sep 17, 2015**, and **2016, Mar 31-Apr 2** PAA Annual Meeting in Washington D.C. under the title “A Unified Framework of Demographic Time”, with Jonas Schöley and Francisco Villavicencio added as coauthors. Also presented **18 Aug., 2016** at the II Berkeley Formal Demography Workshop and **31 Aug-3 Sep, 2016** at the European Population Conference in Mainz, Germany

**2015, Apr 30-May 2:** PAA Annual Meeting in San Diego, poster session 2. “Distributional Aspects of Time to Death in Human Populations.” with Adam Lenart and Vladimir Canudas Romo.

**2015, Apr 30-May 2:** PAA Annual Meeting in San Diego, session 234. “Life Lost Lifesaving, and Causes of Death.” with Aïda Solé Auro.

**2014, Dec 3-5:** “New Measures of Age and Ageing” conference in Vienna, Austria and PAA Annual Meeting in San Diego (\* **Apr 30 - May 2, 2015**), poster session 4 (**session winner**). “Time to death patterns in markers of age and dependency.” with Pil H. Chung, Jeroen Spijker, and John MacInnes.

**2014, May 1-3:** PAA Annual Meeting in Boston, poster session 6, nr 23 and EPC meeting in Budapest (**June 25-28, 2014**), poster session 1, nr 42 “Decomposing and recomposing the population pyramid by remaining years of life” with Jeroen Spijker and John MacInnes.

**2013, Oct 9:** Brown Bag presentation, Department of Demography, University of California, Berkeley and PAA Annual Meeting in Boston (**May 1-3, 2014**), session 1001 and EPC meeting in Budapest (**June 25-28, 2014**), session 56 “Renewal and stability in populations structured by remaining years of life”.

**2012 May 3 - 5,** poster session 1, nr 46 "Student, spouse, parent? A worldwide test of the role incompatibility hypothesis among adolescents and young adults" with Albert Esteve (lead author), Jeroen Spijker and Joan García.

**2011, Mar 31-Apr 2:** PAA Annual Meeting in Washington D.C., session 113. “The Maternal Mortality Incidence Rate (MMIR)”

**2010, Mar 4-6:** La Encuesta Nacional de Inmigrantes (ENI): Explotación con perspectivas comparativas nacionales e internacionales. Working seminars, Madrid. “Sex differentials in the fertility impacts of international migration: The case of recent immigrants to Spain.”

(\*) indicates name removed from PAA program due to name appearances quota.

### **Memberships:**

Population Association of America (PAA)  
European Association for Population Studies (EAPS)  
International Union for the Scientific Study of Population (IUSSP)  
Technical Advisory Group on COVID mortality assessment (WHO, UN-DESA)  
Measuring Adult Mortality Community of Practice (MAM-CoP)  
Network on Health Expectancy (REVES)

### **Languages:**

Native English | fluent Spanish | fluent German | good Catalan | basic French

### **R-packages authored:**

**Work-related** (names may change prior to release):

[HMDHFDplus](#), package offering more refined and robust versions of the former. On CRAN.

[IDButils](#), utilities for HMD country specialists

[LDButils](#), utilities for the translation of the Lexis database matlab scripts RLexisDB, HMD methods protocol for standardization of input data. This project is ongoing and with the joint help of Carl Boe and Celeste Winant.

[HMDLifeTables](#), HMD methods protocol for producing period and cohort exposures and lifetables based on the HMD Methods Protocol versions 5 and 6. Now in production use for HMD.

[DDM](#) implements indirect death adjustment methods: GGB, SEG, and hybrid SEG. On CRAN.

[DemoTools](#) A collection of methods for evaluating, adjusting, and standardizing demographic data. Work sponsored by the UN Population Division. [DDSQLtools](#) provides a user-friendly set of wrappers for UN format data. DemoToolsData holds some bigger data files used in DemoTools.

[MortHump](#) uses the SSE method to estimate the rate schedule of the young adult mortality hump. Primary

authors Adrien Remund and Giancarlo Camarda.

[DemoDecomp](#) gives three general decomposition methods: Horiuchi, Wilmoth & Pletcher (2008), Andreev, Shkolnikov & Begun (2002), and Caswell (1989). [Also on CRAN](#).

[LifeIneq](#) calculates a suite of lifespan inequality (or dispersion) measures. Together with Alyson van Raalte and Christian Dudel.

[LifeIneqDecomp](#) implements between-within style decompositions of lifespan inequality measures. Together with Christian Dudel and Alyson van Raalte.

[Spells](#) implements a framework for a discrete-time lifecourse clock and alignment operations.

**personal, all publicly available at:** [www.github.com/timriffe](https://www.github.com/timriffe)

[LexisUtils](#), a package with a small set of functions for reshaping demographic data for different Lexis perspectives. Includes a surface plotting function.

(deprecated) [HMDget](#), a function for creating and reshaping data extracts from the HMD, online or local.

[Lotka](#), a collection of functions related to Lotka's renewal equation.

[Pyramid](#), a graphical function for population pyramids.

[LifeTable](#), produces a full lifetable either from given rates, or from vectors of deaths and exposures.

[RateSketch](#), graphical interface for hand-drawing rate schedules, returns vector interpolated to exact points.

[LexisDiagram](#), simple graphical functions for Lexis diagrams.

## Teaching:

Barcelona Summer School of Demography (BSSD), Centre for Demographic Studies:

**2023, July 3-7** Introduction to R.

**2022, July 4-8** Introduction to R.

**2021, July 5-9** Demography with R.

**2019, July 1-5** Introduction to R.

**2018, July 9-13** Data visualization in base R.

**2017, July 3-14** Introduction to R and data visualization. Co-taught with Francisco Villavicencio and Juan Galeano.

European Doctoral School for Demography (EDSD)

**2023, Nov 13-16** Data Wrangling (EDSD), INED, Paris, France

**2022, Nov 7-10** Data Wrangling (EDSD), Centre for Demographic Studies, Barcelona, Spain.

**2021, Nov 8-12** Data Wrangling (EDSD), Centre for Demographic Studies, Barcelona, Spain.

**2020, Nov 9-12** Data Wrangling (EDSD), Centre for Demographic Studies, Barcelona, Spain. (online)

**2019, Nov 11-15.** Data Wrangling (EDSD), Centre for Demographic Studies, Barcelona, Spain.

**2019, Apr 30** Intro to Stable Populations. (EDSD), University of Southern Denmark, Odense, Denmark.

**2016, Sep-Oct** Introduction to R. (EDSD), MPIDR, Rostock, Germany

KOSTAT-UNFPA Summer Seminar on Population

**2023, July 24-28** Demography with R. Daejeon, South Korea.

**2022, July 27- Aug 5** Demography with R. Daejeon, South Korea.

**2021, July 26-30** Demography with R. (online)

IMPRS-PHDS

**2021, Nov 24** Health expectancies and multistate modeling. (online)

**2020, Nov 20** Health expectancies and multistate modeling (online)

**2019, Nov 26** Health expectancies and multistate modeling (IMPRS-PHDS), MPIDR, Rostock, Germany

University courses

**2024, May 14 (forthcoming)** Métodos para estudiar desigualdades demográficas, *Modelos y Áreas de*

*Investigación en Ciencias Sociales (MAICS)*, Universidad del País Vasco (UPV/EHU). 0.5 ECTS  
**2022, May 11 & 18** Taller de visualización de datos. Workshop within master *Modelos y Áreas de Investigación en Ciencias Sociales (MAICS)*, Universidad del País Vasco (UPV/EHU)  
**2019, summer semester (Apr-Jul)**. Demographic exploration and discovery. Universität Rostock, Germany.  
**2017, Apr-Sep**. Simulation and Forecasting in R. Universität Rostock. Co-taught with Christian Dudel.

#### Other

**2023, Nov 10** Demographic Decomposition Workshop, Quantitative Methods Working Group, Department of Sociology, University of Pennsylvania, USA (online)  
**2023, Sept 25** Demographic Decomposition, ThinkPop workshop series, Laboratory of Population Health, MPIDR, Rostock  
**2022, Oct 3-4** Reproducibility in the Population Sciences, Department of Demography and Geodemography, Charles University, Prague, Czechia  
**2020, Oct 21** Demographic Decomposition. International Autumn School (HSE) (online)  
**2019, Aug 19-30** Introduction to R and the DemoTools package. Workshop held at the United Nations Population Division, New York City.  
**2018, June 5**. pre-EPC Data visualization workshop. Brussels, Belgium  
**2016, June 13-14** Introduction to R. (MaxNet Aging program), MPIDR, Rostock, Germany  
**2015, June 15-19** Advanced Demography. Colmex summer workshop, Mexico City  
**2014, Mar 24-25** Stanford Workshop in Formal Demography (presentation + aid), Stanford, USA  
**2012, Oct 4-10** Introduction to R. Centre for Demographic Studies, Barcelona, Spain

#### Journals reviewed for (bold indicates multiple):

**Demographic Research**, **Insurance Mathematics and Economics**, International Migration Review, Journal of Comparative Family Studies, **Journal of Epidemiology and Community Health**, Journal of Statistical Software, International Journal of Population Studies, **PeerJ**, **Springer monographs**, **European Journal of Population**, Biodemography and Social Biology, Social Indicators Research, Revista de Demografía Histórica, **Genus**, **Journal of the Royal Statistical Society series A**, **Statistical Methods and Applications**, Population, International Journal of Epidemiology, American Journal of Public Health, **Demography**, Erdkunde, **Population Studies**, **PlosOne**, Geografia Polonica, **SocInfo**, International Journal of Health Policy and Management, Health Policy, Communications Medicine, Health Affairs, International Journal of Infectious Diseases, Science Progress, Canadian Studies in Population, **Vienna Yearbook of Population Research**, Scientific Data, Theoretical Population Biology, Comparative Population Studies, Science Progress, Comparative Population Studies, Journal of Population Research, Gerontology

#### Service:

##### PhD theses directed

**2022-in progress** Rustam Tursun Zade (UPV/EHU), Models and Areas of Social Science Research. Provisional title: “Compositional forecasting of multistate transition probabilities”

**2023-in progress** Jacob Donald Martin (UPV/EHU and INED), Public Health. Provisional title: “Spatial inequalities in mortality: past, present, and future” co-direction with Carlo Giovanni Camarda (INED). Public Health.

##### Master theses directed

**2021, Sept 29** Paola Vasquez Castillo. (EDSD at CED/UAB) Title “Better alone? The impact of residential arrangements on the mortality of Costa Rican older adults.”

**2020, July 24** Rustam Tursun Zade EDSD (CED/UAB) Title “Forecasting Russian cancer mortality with compositional data analysis”

**2017, August 3** Markus Göhler (Universität Rostock) Title “Karriereverläufe von professionellen Sportlern. Eine Lebenslaufdatenanalyse”

### **PhD defense commissions**

**2023, Sept 19** Dissertation examiner for Octavio Bramajo. Universitat Autònoma de Barcelona. title forthcoming.

**2023, Sept 4** Dissertation examiner for Ciaran McMonagle. University of Glasgow. Title: “Diversity in causes of mortality in Scotland”

**2020, March 20** Dissertation examiner for Ryohei Mogi. Universitat Autònoma de Barcelona. Title: “Duration-Based Measures as an Alternative to Studying Union Formation and Fertility.”

**2019, Dec. 16** Dissertation examiner for Sarahi Rueda. Universitat Autònoma de Barcelona. Title: “Health conditions of the elderly population in Europe and Latin America. Methodological contributions.”

### **Master defense commissions**

**2022, Sept 9** Master thesis examiner for Donata Stonkute (EDSD at CED/UAB). Title “Educational Gradient in Disability-Free Life Expectancies across Europe: Evidence from SHARE”

**2022, Sept 9** Master thesis examiner for Chiara Micheletti (EDSD at CED/UAB). Title “The threshold age of the life table entropy in terms of the Gompertz modal age at death”

**2020, Sept 23** Master thesis examiner for Niklas Ullrich (Universität Rostock) “Sozioökonomische Unterschiede in der Sterblichkeit. Konstruktion von Sterbetafeln basierend auf individuellen Longitudinaldaten”

**2020, July 24** EDSD master thesis examiner for Anna Altova. Title “Obesity-related cancer in Czechia”

**2020, July 24** EDSD master thesis examiner for Luca dei Bardi. Title “Waiting Times for Access to Healthcare in 2017 by Socio-Economic Status in Spain”

### **Association or conference roles**

**2024, June (forthcoming)** Chair for session 806, "Flash session Morbidity", EPC meeting in Edinburgh.

**2021, Dec 8** Chair for session 113. Measurement of Age and Age Structures. For IPC2021 Conference.

**2020, June 24-27** Jury member for EAPS Outreach Award

**2019, Oct. 10-11** Co-organizer of the Rostock Open Science Workshop

**2019** Senior program committee member, Social Informatics conference

**2019**, Organizer of session “Mathematical Demography” at PAA in Austin, TX

**2017, June 26-28** Co-organizer of first Rostock Retreat [visualization]

**2016** Co-organizer of PAA DataViz Workshop PAA Washington DC

**2015** Organizer of session ‘Visualizing Demographic Data’ at PAA in San Diego, CA.

### **Other**

**2024, Sept 25-27 (forthcoming)** co-organizer and host of EAPS Health Morbidity and Mortality Working Group annual meeting in Bilbao

**2022, Sept 14-15** participant in virtual roundtable discussion on population projection for census data collected during the COVID-19 pandemic. Hosted by the Philippine Commission on Population and Development (POPCOM), Philippine Statistics Authority (PSA) and National Economic and Development Authority (NEDA), with support from UNFPA Philippines, UNFPA Headquarters, and UNFPA Asia Pacific Regional Office.

**2020-present** contributing member of WHO/UN-DESA Technical Advisory Group on COVID-19 Excess mortality. Active in Working Groups I (Global Mortality Estimates) and IV (Summary Metrics)

**2021, March 8** participant in Asia-Pacific Stats Café (UN-ESCAP) on Indirect demographic methods for measuring completeness and coverage for low-capacity countries.

**2019-2021 Guest editor** (with Sebastian Kluesener and Nikola Sander) for Demographic Research special collection on Data Visualization.

**2011** Cofounder of local R Users Group, Barcelona (RUGBCN)



