

# Curriculum Vitae

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## Alessandro Feraldi

### GENERAL INFORMATION

Spoken Languages            Italian, English

### EDUCATION

- 11/2018 -            **Ph.D. in School of Statistical Sciences - Demography**  
05/2023            Sapienza University of Rome, Rome (Italy)  
Dissertation: Gender Disparities in Health and Survival
- 05/2022 -            **Research Stay Abroad (Visiting)**  
06/2022            INED - Institut National d'Études Démographiques, Paris (France)  
Mortality, Health, and Epidemiology Unit  
Research: Association between Healthy Life Expectancy and Behavioural Risk Factors; Influence of  
Widowhood and Separation on the Incidence of Neurodegenerative Diseases
- 09/2018 -            **European Doctoral School of Demography (EDSD)**  
07/2019            Max Planck Institute for Demographic Research MPIDR, Rostock (Germany)  
Southern University of Denmark, Odense (Denmark)  
Research: Gender Gap in Life Expectancy - Age- and Cause-specific Decomposition of Ten Countries
- 10/2015 -            **Master Degree: Demographical and Economical Statistical Sciences**  
01/2018            Sapienza University of Rome, Rome (Italy)  
Dissertation: Probabilistic Dietary Exposure Assessment to DON of Italian Population
- 09/2015 -            **Study Abroad (Erasmus)**  
02/2016            Technische Universität Dortmund (TU), Dortmund (Germany)  
Study: Multivariate statistical modelling and sampling methods
- 09/2010 -            **Bachelor Degree: Statistics for data analysis**  
10/2014            University of Palermo, Palermo (Italy)  
Dissertation: Data Analysis of Insulin Pumps in the Treatment of Type 1 Diabetes Mellitus in Diabetic  
Subjects Aged 23 and Older

### APPOINTMENTS

#### Academic Appointments

11/2022 - **Tutor for Statistics Course for Bachelor Degree in Statistics**  
07/2023 Sapienza University of Rome, Rome (Italy)  
Teaching statistics and R software, correction and evaluation of exams

### Other Appointments

Since **Max Planck Institute for Demographic Research (MPIDR)**  
05/2023 Research Scientist (Post-Doc) at the Research Group of Labour Demography  
Research interests: Socioeconomic Inequalities and Unhealthy Behaviour-Related Differences in Healthy and Unhealthy Working Life Expectancy

03/2021 - **Data Analyst and Researcher at National Institute for Environmental Research and Protection**  
03/2022 Department of Sustainable Development of Aquaculture in Inland, Transitional and Marine Coastal Waters  
ISPRA - Istituto Superiore per la Protezione e la Ricerca Ambientale, Rome (Italy)  
Tasks: Development and validation of a benchmarking system for the technical, production, health and environmental performance of the European Mediterranean Aquaculture Sector.  
Development of a Welfare Index to assess welfare of farmed Sea Bass and Sea Bream

01/2020 - **Internship at Italian National Institute of Health**  
06/2020 Department of Cardiovascular, Endocrine-Metabolic diseases, and Ageing  
ISS - Istituto Superiore di Sanità, Rome (Italy)  
Research: Frailty Prevalence, Incidence, and Association with Incident Disability in the Italian Longitudinal Study on Aging

04/2018 - **Junior Data Analyst**  
08/2018 InfoEdge Technology, Rome (Italy)  
Job: Development of web page for data collection (XML, HTML, SASECM)

01/2017 - **Internship at Italian National Institute of Health (Istituto Superiore di Sanità)**  
01/2018 Department of Food Safety, Nutrition and Veterinary Public Health  
ISS - Istituto Superiore di Sanità, Rome (Italy)  
Research: Epidemiological analysis of population exposure to mycotoxins and probabilistic assessment of dietary exposure to deoxynivalenol (DON) of Italian population

04/2023 - **Researcher for the Centre for Gender and Global Health, University College London (UCL)**  
05/2023 Research: Analysis of global datasets providing quantitative data along a care cascade and report on the key findings of sex-disaggregated differences along the care cascade

01/2021 - **Teaching Basic Statistics and R programming**  
10/2022 **LYRIS ([www.lyris.school/about](http://www.lyris.school/about))**  
Teaching statistics and R software

## SUMMARY OF SCIENTIFIC ACHIEVEMENTS

### Non-bibliometric information

Number of publications:	9
Number of publications in Class A:	1
Number of books:	0

### Bibliometric information

Total Impact factor:	2023 citations in 2022 papers = 5.0
Total Citations:	8
Average Citations per Product:	8 citations in 4 papers = 2.0
Hirsch (H) index:	2.0 (Scopus)
Normalized H index*:	2.0 (Scopus)

## PUBLICATIONS

### Publications selected for the evaluation

1. Feraldi, A., Zarulli, V., Mazzuco, S., & Giudici, C. (2023). Functional data analysis approach in population studies: an application to the gender gap in life expectancy. *Quality & Quantity*, 1-26
2. Feraldi, A., De Santis, B., Finocchietti, M., Debegnach, F., Mandile, A., & Alfò, M. (2023). Evaluation of Statistical Treatment of Left-Censored Contamination Data: Example Involving Deoxynivalenol Occurrence in Pasta and Pasta Substitute Products. *Toxins*, 15(9), 521.
3. Galluzzo, L., Noale, M., Maggi, S., Feraldi, A., Baldereschi, M., Di Carlo, A., ... & ILSA Working Group. (2023). Frailty Prevalence, Incidence, and Association with Incident Disability in the Italian longitudinal study on aging. *Gerontology*, 69(3), 249-260.
4. Feraldi, A., and Zarulli, V. (2022). Patterns in Age and Cause of Death Contribution to the Sex Gap in Life Expectancy: A Comparison among Ten Countries. *Genus*, 78(1), 1-22.
5. Galluzzo L, Feraldi A, Gruppo di lavoro WP5 della Joint Action ADVANTAGE. Il quadro epidemiologico della fragilità dell'anziano dai risultati della Joint Action europea ADVANTAGE. *Boll Epidemiol Naz* 2020;1(1):19-23.

### Other publications

1. Sex gap in cancer-free life expectancy: the association with smoking, obesity and physical inactivity. Alessandro Feraldi, Cristina Giudici, and Nicolas Brouard  
*52th Scientific Meeting of the Italian Statistical Society (SIS 2023) - ISBN 9788891935618AAVV*
2. Depression-free life expectancy among 50 and older Americans by gender, race/ethnicity and education: the effect of marital disruption. Alessandro Feraldi and Cristina Giudici  
*51th Scientific Meeting of the Italian Statistical Society (SIS 2022) - ISBN 9788891932310*
3. Analysing contributions of ages and causes of death to gender gap in life expectancy using functional data analysis. Alessandro Feraldi, Virginia Zarulli, Stefano Mazzuco, and Cristina Giudici  
*50th Scientific Meeting of the Italian Statistical Society (SIS 2021) - ISBN 9788891927361*
4. Provenzano, V., Brancato, D., Scorsone, A., Fleres, M., Aiello, V., De Santis, M., Di Noto, A., Feraldi, A., Provenzano, F., Saura, G., & Spano, L. (2016). Insulin Pumps Are Effective and Durable in Adult-Onset Type 1 Diabetes. *Diabetes* 2016; 65 (Supplement 1): A569

### Articles under review

1. Estimating Gender Gap in Depression-Free Life Expectancy among 50 and older American widowed: An application using Interpolated Markov Chain Approach  
*Feraldi Alessandro, Giudici Cristina, and Brouard Nicolas*  
Submitted to *Journal of Aging and Health* (Class A) on August 16<sup>th</sup>, 2023  
First revision: September 13<sup>rd</sup>, 2023  
Third revision (minor): January 22<sup>nd</sup>, 2024

### Ongoing publications

Socioeconomic Inequalities and Smoking-Related Differences in Healthy Working Life Expectancy: An Examination Using U.S. Population-based Estimates from the Health and Retirement Study at Age 50  
*Alessandro Feraldi and Christian Dudel*

Unveiling the Data Gap: The Need for Sex-Disaggregated Data Along the Health Pathway for Hypertension, Diabetes, and HIV/AIDS  
*Alessandro Feraldi, Virginia Zarulli, and Angela Chang*

Gender Gap in Cancer-Free Life Expectancy: The Association with Smoking, Obesity and Physical Inactivity  
*Alessandro Feraldi, Cristina Giudici, and Nicolas Brouard*

Depression-free life expectancy after widowhood, separation and divorce among community-dwelling elderly population in the US: Results from the US Health and Retirement Study  
*Alessandro Feraldi and Elisa Cisotto*

Comparison of programs for calculating health life expectancies: Imach, msm/elect (R), and SPACE (SAS)  
*Alessandro Feraldi, Cristina Giudici, and Nicolas Brouard*

### PRESENTATIONS AT INTERNATIONAL CONFERENCES

1. Sex gap in cancer-free life expectancy: the association with smoking, obesity and physical inactivity  
Alessandro Feraldi, Cristina Giudici, Nicolas Brouard  
*Proceeding conference - Population Association of America 2023 Annual Meeting, New Orleans, Louisiana - April 12-15, 2023*
2. Sex gap in cancer-free life expectancy: the association with smoking, obesity and physical inactivity  
Alessandro Feraldi, Cristina Giudici, Nicolas Brouard  
*Proceeding conference - 33rd REVES Meeting Advances in international research on health and life expectancy in the Covid-19 era. Halifax, Nova Scotia, Canada - September 21-23, 2022.*
3. Functional Data Analysis Approach in Population Studies: An Application to the Gender Gap in Life Expectancy  
Alessandro Feraldi, Virginia Zarulli, Stefano Mazzuco, Cristina Giudici  
*Proceeding conference - Population Association of America (PAA) 2022 Annual Meeting, Atlanta, Georgia - April 7th, 2022*
4. Sex gap in cancer-free life expectancy: the association with smoking, obesity and physical inactivity  
Alessandro Feraldi, Cristina Giudici, and Nicolas Brouard  
*Proceeding conference - 52th Scientific Meeting of the Italian Statistical Society (SIS 2023)*
5. Sex gap in cancer-free life expectancy: the association with smoking, obesity and physical inactivity  
Alessandro Feraldi, Cristina Giudici, and Nicolas Brouard  
*Proceeding conference - Population Days 2023 14th edition*

6. Depression-free life expectancy among 50 and older Americans by gender, race/ethnicity and education: the effect of marital disruption  
Alessandro Feraldi and Cristina Giudici  
*Proceeding conference - 51th Scientific Meeting of the Italian Statistical Society (SIS 2022) Caserta, Italia- June 23rd, 2022*
7. Analysing contributions of ages and causes of death to gender gap in life expectancy using functional data analysis  
Alessandro Feraldi, Virginia Zarulli, Stefano Mazzuco, and Cristina Giudici  
*Proceeding conference - 50th Scientific Meeting of the Italian Statistical Society (SIS 2021) - June 21st, 2021*

### GRANTS & AWARDS

2022	Bando Avvio alla Ricerca, Sapienza University, Rome, Italy (2022)
2021	2nd best Flash talk - New data for the new challenges of population and society - Progetto di Eccellenza. University of Padua, Padua, Italy.
2015	Erasmus, Sapienza University, Rome, Italy
2012	Scholarship, University of Palermo, Italy
2011	Scholarship, University of Palermo, Italy

### SOCIETY MEMBERSHIPS

Since 2021	Società Italiana di Statistica (SIS)
Since 2022	Population Association of America (PAA)

### IT SKILLS

IT	MS Office and OpenOffice	Advanced
	R	Advanced
	SPSS	Very good
	SAS	Very good (Certified Base Programmer SAS9)
	IMACH	Advanced
	LateX	Advanced
	JotForm	Good

### RESEARCH ACTIVITIES

Gender disparities in health and survival	To shed light on the evolution of the gender gap in survival in the recent decades by examining patterns of contributions of ages and causes of death to the gender gap in life expectancy. The analyses cover a wide range of causes of death and include long time periods for several European and non-European countries. To investigate gender differences in the associations between health expectancy and social and behavioural risk factors, focusing on healthy life expectancy as life expectancy free from specific diseases (not commonly studied, e.g. cancer and depression), rather than disability-free life expectancy.
Age and causes-of-death contributions to the gender gap	Constructing summary measures of trend and dispersion of the contributions to the overall gender gap, for each cause of death, between and within age groups, to evaluate how each distribution of age-specific contributions behaved over time. This approach gives a new and

	<p>non-conventional insight into the trends of the sex gap in life expectancy. The research shows that different patterns in terms of age groups and causes of death have contributed to the declining sex gap in life expectancy in the recent years. In addition, we uncover different patterns that specific causes have on the male–female mortality differences at various ages.</p>
Functional data analysis	<p>Functional Principal Component Analysis of the age profiles of cause-specific contributions, to identify the main components of the distribution of the age-specific contributions according to causes of death, and to summarize them with few components. The research show that in the most recent period the gender gap in life expectancy is affected by composition of the causes of death more than it was in previous periods and emphasises that Functional Data Analysis could prove useful to deepen our understanding of complex demographic phenomena.</p>
Mental health expectancy and widowhood	<p>To compare population-based estimates of depression-free life expectancy (namely the number of years of life an individual can expect to live without depression) of widowed as against married people, among recent U.S. older adults (from the Health and Retirement Study), assessing gender-specific differences. The research reveals that the difference in life expectancy between sexes widens in the context of widowhood. The gender gap in depression-free life expectancy widens by almost double when comparing widowed individuals to married individuals.</p>
Cancer-free life expectancy and behavioural risk factors	<p>Examine the association between smoking, obesity, and physical inactivity and cancer-free life expectancy in women and men, in a representative cohort of American older adults (from the Health and Retirement Study). The research highlights that smoking was associated with the shortest cancer-free life expectancy, whereas significantly shorten cancer-free life expectancy only in women. Notably, compared to men, women showed to lose a longer life expectancy free of cancer through the adherence to risky lifestyles.</p>
Frailty prevalence, incidence, and associations	<p>To provide population-based estimates of prevalence and incidence of frailty from the Italian Longitudinal Study on Aging (ILSA) and analyse the association with disability. The research shows that the prevalence and the incidence of (pre-) frailty were overall higher for women and increased with age. Additionally, frailty was a strong and independent predictor of disability.</p>
Gender disparities in Health Pathway	<p>Collecting sex- and age-disaggregated data along the health pathway (risk factor prevalence, disease prevalence, care cascade, and death rates) by sex and age for selected diseases, the research estimates the sex difference by age, income, and region, and provide an analysis of the associations with socioeconomic factors. Results show less progression in the care cascade, poorer health outcomes, and the higher prevalence of risk factors for males, with the exception of unsafe sex and obesity, which were more common among females.</p>
Inequalities in Healthy Working Life Expectancy	<p>Using U.S. Health and Retirement Study data, employing a multistate lifetable approach to model individual life courses, we examine disparities in healthy working life expectancy concerning race/ethnicity, education, and smoking habits at ages 50+. Findings reveal healthy working life expectancy disparities linked to socioeconomic factors and smoking behaviour, with men and non-smokers having longer healthy working life expectancy. The largest smoking differential is observed among American Indian/Alaskan Native, Asian/Pacific Islander, and individuals of other ethnicities, and Black Americans report the overall shortest healthy working life expectancy. Lower educated individuals report more than one-year shorter healthy working life expectancy than higher educated.</p>