



Università degli Studi di Roma "Tor Vergata"

ACADEMIC AND SCIENTIFIC CURRICULUM OF PROF.

PERSONAL DATA

Name and Surname: Stefano Orlando

Place and date of birth: Rome, 13th of November 1980

CURRENT POSITION: Fixed-term researcher (type B)

Department: Department of Biomedicine and Prevention

Position: Researcher (type B)

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Italian Ministry of Education Academic-Scientific sector: MED/42

In possession of **National Academic Qualification as Associate Professor** in the in the Italian Scientific Sector 06/M1 - GENERAL AND APPLIED HYGIENE, INFIRMIER SCIENCES AND MEDICAL STATISTICS

TEACHING AND SCIENTIFIC ACTIVITY

Education and academic positions:

- Graduated in Political Science from the University of Roma Tre (grade 110/110 cum laude) in 2005 with a thesis in development economics at the conclusion of a research abroad (Mozambique) funded by a scholarship.
- After graduating, the academic career continued with a PhD in health education at the University of Perugia (years 2008-2010) and several research projects as a health economist in national and international research groups.
- Since 2017 I have been a researcher at the Department of Biomedicine and Prevention of the University of Tor Vergata in Rome where I carry out research and teaching in health economics.
- In 2021 I obtained a Master of Science (II level) from King's College London in Public Health (Global Health) with a Distinction (75/100)

Professional and didactic activities in Italian and international Institutions:

Since 2017 I have been a researcher at the Department of Biomedicine and Prevention of the University of Tor Vergata in Rome where I carry out research and teaching in health economics. I dealt with various topics such as the health needs of the elderly population, and the economic efficiency of public health programs in limited resources settings.

From 2017 onwards I have regularly carried out teaching activities at the following courses at the University of Tor Vergata:

- Business Economics within the course of Pharmacology Applied to Biotechnologies. Faculty: Medicine and Surgery. Degree course: Medical Biotechnology

- Health Management. Degree course: Global Governance. Faculty: Economics.
- General and Applied Hygiene within the Science of Prevention and Public Health course. Faculty: Medicine and Surgery. Degree course: Sciences of the health professions of prevention
- Health Economics within the Programming, Economics, Health Management, Health Law and Professional Responsibility course. Faculty: Medicine and Surgery. Degree course: Sciences of the diagnostic technical health professions.
- General and applied hygiene and Business Economics within the course of Hygiene - Epidemiology - Health Statistics and Nursing in Management, Health Law, Ethics and Bioethics. Faculty: Medicine and Surgery. Degree Course: Nursing.
- Political Economy within the Health Management Science course. Faculty: Medicine and Surgery. Degree course: Prevention techniques in the environment and in the workplace (qualifying for the health profession of Prevention technician in the environment and in the workplace).
- Applied Economics within the Public Health and Occupational Medicine course. Faculty: Medicine and Surgery. Degree course: Medicine and Surgery.
- Applied Economics within the Public Health course. Faculty: Medicine and Surgery. Degree course: Medicine and Surgery (course in English)

I am also

- Member of the board of the School of Specialization in Hygiene and Medicine within the Department of Biomedicine and Prevention of the University of Tor Vergata. From 2017 to today, I have been a teacher of Health Economics and tutor for some postgraduates at the aforementioned school.
- Member of the college in the PhD in NURSING AND PUBLIC HEALTH SCIENCES cycle 37 within the Department of Biomedicine and Prevention of the University of Rome Tor Vergata
<https://www.dottoratotorvergata.it>
- Specialty Chief Editor of "Disasters and emergency medicine" section of Frontiers in Public Health Journal - Publisher: Frontiers Media S.A. - E-ISSN:2296-2565 <https://www.frontiersin.org/journals/public-health>
- Since October 2022 member of the Scientific Council of the Interdepartmental Centre for Research and Training (CIFAPPS) at the University of Tor Vergata

Awards and funding:

I have held the role of principal investigator in research groups in Italy and abroad, especially in sub-Saharan Africa (Malawi, Mozambique and Kenya) gaining extensive experience in the field of scientific research, especially in the field of public health and in health economics.

I am currently collaborating with researchers from the Istituto Superiore di Sanità and Scuola Superiore Sant'Anna for international research funded by the Italian Agency for Development Cooperation (AICS), with the role of principal investigator in two projects.

- "CHAO (Comorbidities in HIV / AIDS Outpatients): an epidemiological research to reduce mortality in HIV patients in Kenya" funded by the Italian Ministry of Foreign Affairs through the Italian Development Cooperation Agency (AICS) (project code AID 012168 / 02/1) within the Global Fund 5% program aimed at supporting the commitments of the global fund in Africa. The project was funded following a competitive tender.

I have also participated in the following research projects

- WeMen! Improving women's access to healthcare system through men's inclusion "in collaboration with the Scuola Superiore Sant'Anna which takes place in Malawi funded by the Italian Ministry of Foreign Affairs through the Italian Development Cooperation Agency (AICS) (project code AID 011587.08.5) within the Global Fund 5% program aimed at

supporting the commitments of the Global Fund in Africa. The project was funded following a competitive call for tenders.

- Safe Milk for African Children (SMAC) study: an observational study conducted in Malawi aimed at evaluating the safety and pharmacokinetics of administering antiretroviral therapy (ART) to breastfeeding women. The study was conducted as part of the Drug Resource Enhancement against AIDS and Malnutrition (DREAM) program, conceived and managed by the Community of S Egidio (Rome, Italy), an Italian religious non-governmental organization and in collaboration with a team of researchers from the Italian Higher Institute of Health.
- Research group led by a team of the National Institute of Health within the research project called "Prevention of maternal-infant transmission of HIV in Malawi: analysis of maternal adherence to programs and infant health in the first year after birth" which takes place in Malawi and is financed by the Italian Ministry of Foreign Affairs through the Italian Development Cooperation Agency (AICS) (project code AID 011141/03/04) within the Global Fund 5% program aimed at supporting global fund commitments in Africa. The project was funded following a competitive tender.
- Study "IDEA-TB study (Innovative Diagnostic Enhancement Against TB)", a prospective study aimed at evaluating the possible role of HS-CRP for TB diagnosis and the prediction of early mortality in HIV-positive patients in Kenya, in collaboration with a research group of the Istituto Superiore di Sanità. The study was funded by the Italian Ministry of Foreign Affairs through the Italian Development Cooperation Agency (AICS) within the Global Fund 5% program aimed at supporting the global fund's commitments in Africa. The project was funded following a competitive tender.
- Study in collaboration with the National Institute of Health. The main objectives of the study were to define the local prevalence of tuberculous disease (using WHO-approved molecular tests that also evaluate resistance to rifampicin) among HIV-positive subjects never treated with ART, the prevalence of subclinical disease in tuberculosis-positive patients and the added value of including an Xpert repeat sputum test and a urine LAM test in the diagnostic algorithms for tuberculosis

Research activity H-index 12 (Scopus, at 16/03/2023)

15 most relevant publications

1. Orlando S, Marazzi MC, Mancinelli S, Liotta G, Ceffa S, Giglio P, et al. Cost-effectiveness of using HAART in prevention of mother-to-child transmission in the DREAM-project Malawi. *J Acquir Immune Defic Syndr*. 2010;55(5).
2. Palombi L, Bernava GM, Nucita A, Giglio P, Liotta G, Nielsen-Saines K, et al. Predicting trends in HIV-1 sexual transmission in sub-Saharan Africa through the drug resource enhancement against AIDS and malnutrition model: Antiretrovirals for 5 reduction of population infectivity, incidence and prevalence at the district level. *Clin Infect Dis*. 2012;55(2).
3. Nucita A, Bernava GM, Giglio P, Peroni M, Bartolo M, Orlando S, et al. A Markov chain based model to predict HIV/AIDS epidemiological trends. Vol. 8216 LNCS, *Lecture Notes in Computer Science* (including subseries *Lecture Notes in Artificial Intelligence* and *Lecture Notes in Bioinformatics*). 2013.
4. Liotta G, Marazzi MC, Mothibi KE, Zimba I, Amangoua EE, Bonje EK, et al. Elimination of mother-to-child transmission of HIV infection: The drug resource enhancement against AIDS and malnutrition model. *Int J Environ Res Public Health*. 2015;12(10).

5. Orlando S, Diamond S, Palombi L, Sundaram M, Zimmer LS, Marazzi MC, et al. Cost-effectiveness and quality of care of a comprehensive ART program in Malawi. *Med (United States)*. 2016;95(21).
6. Legramante JM, Morciano L, Lucaroni F, Gilardi F, Caredda E, Pesaresi A, et al. Frequent use of emergency departments by the elderly population when continuing care is not well established. *PLoS One*. 2016;11(12).
7. Liotta G, O’Caoimh R, Gilardi F, Proietti MG, Rocco G, Alvaro R, et al. Assessment of frailty in community-dwelling older adults residents in the Lazio region (Italy): A model to plan regional community-based services. *Arch Gerontol Geriatr*. 2017;68.
8. Mancinelli S, Nielsen-Saines K, Germano P, Guidotti G, Buonomo E, Scarcella P, et al. Who will be lost? Identifying patients at risk of loss to follow-up in Malawi. The DREAM Program Experience. *HIV Med*. 2017;18(8).
9. Orlando S, Triulzi I, Ciccacci F, Palla I, Palombi L, Marazzi MC, et al. Delayed diagnosis and treatment of tuberculosis in HIV+ patients in Mozambique: A cost-effectiveness analysis of screening protocols based on four symptom screening, smear microscopy, urine LAM test and Xpert MTB/RIF. *PLoS One*. 2018;13(7).
10. Liotta G, Inzerilli MC, Palombi L, Madaro O, Orlando S, Scarcella P, et al. Social interventions to prevent heat-related mortality in the older adult in Rome, Italy: A quasi-experimental study. *Int J Environ Res Public Health*. 2018;15(4).
11. Ciccacci F, Tolno VT, Doro Altan AM, Liotta G, Orlando S, Mancinelli S, et al. Noncommunicable Diseases Burden and Risk Factors in a Cohort of HIV+ Elderly Patients in Malawi. *AIDS Res Hum Retroviruses*. 2019/08/31. 2019;35(11–12):1106–11.
12. Liotta G, Marazzi MC, Orlando S, Palombi L. Is social connectedness a risk factor for the spreading of COVID-19 among older adults? The Italian paradox. *PLoS One* [Internet]. 2020;15(5):e0233329. Available from: <https://doi.org/10.1371/journal.pone.0233329>
13. Orlando S, Palla I, Ciccacci F, Triulzi I, Thole D, Sangaré HM, et al. Improving treatment adherence and retention of HIV-positive women through behavioral change interventions aimed at their male partners: Protocol for a prospective, controlled before-and-after study. *JMIR Res Protoc*. 2021;10(1).
14. Orlando S, Mosconi C, De Santo C, Emberti Gialloreti L, Inzerilli MC, Madaro O, et al. The Effectiveness of Intervening on Social Isolation to Reduce Mortality during Heat Waves in Aged Population: A Retrospective Ecological Study. Vol. 18, *International Journal of Environmental Research and Public Health* . 2021.
15. Liotta G, Emberti Gialloreti L, Marazzi MC, Madaro O, Inzerilli MC, D’Amico M, et al. Pro-active monitoring and social interventions at community level mitigate the impact of coronavirus (COVID-19) epidemic on older adults’ mortality in Italy: A retrospective cohort analysis. *PLoS One* [Internet]. 2022 Jan 21;17(1):e0261523. Available from: <https://doi.org/10.1371/journal.pone.0261523>