



Polychronis Kostoulas

Date of birth: 18 May 1976 | **Nationality:** Greek | **Gender:** Male |

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● ABOUT ME

Polychronis Kostoulas (PK) has a core expertise in **Public Health Epidemiology**. His primary research interest is in the development and application of Bayesian methods and deep learning algorithms for the evaluation of diagnostic tests, estimation of true disease prevalence, proof of disease freedom and early warning systems for epidemics. PK has **over 100 publications** in peer-reviewed journals ([Google Scholar profile](#)) and has participated in in **18 international research projects, leading four (4) and coordinating and leading the other two (2)**.

He is also Member of the Executive Board of ASPHER and EiC of PVM (Elsevier).

Below are listed only relevant research projects that I lead/led in the past four years and only selected publications since 2021.

● WORK EXPERIENCE

1 JAN 2021 – CURRENT Greece

ASSOCIATE PROFESSOR OF EPIDEMIOLOGY UNIVERSITY OF THESSALY

● EDUCATION AND TRAINING

SEP 2021 – 20 APR 2022 Washington DC, United States

SCHOLAR OF THE ACADEMIC PUBLIC HEALTH LEADERSHIP INSTITUTE Association of Schools and Programs of Public Health (ASPPH) & Center of Creative Leadership (CCL)

Website <https://asp-ph.org>

1 OCT 2002 – 1 APR 2006 Greece

PH.D. IN EPIDEMIOLOGY University of Thessaly

● ADDITIONAL INFORMATION

NETWORKS AND MEMBERSHIPS

2022 – CURRENT

Member of the Executive Board of ASPHER

PROJECTS

OCT 2019 – APR 2024

Novel tools for test evaluation and disease prevalence estimation H2020 - COST Action

Main proposer, Coordinator and Chair

Link www.harmony-net.eu

NOV 2020 – NOV 2022

Unravelling Data for Rapid Evidence-Based Response to COVID-19 H2020 (Grant Agreement No 101016216)

Leader for University of Thessaly

Link <https://uncover-eu.net>

JAN 2018 – JUN 2020

Harmonization of Transmissible Disease Interpretation in the EU European Food Safety Authority
Coordinator and Project leader

PUBLICATIONS

[**Diagnostic accuracy of multiplex nucleic acid amplification tests for Campylobacter infection: a systematic review and meta-analysis**](#)

– 2023

Pathogens & Global Health

[**Addressing misclassification bias in vaccine effectiveness studies with an application to Covid-19**](#) – 2023

BMC Medical Research Methodology

[**Prevalence estimates of major depressive disorder in 27 European countries from the European Health Interview Survey: accounting for imperfect diagnostic accuracy of the PHQ-8**](#)

– 2023

BMJ Ment Health

[**Burden of infectious disease studies in Europe and the United Kingdom: a review of methodological design choices**](#)

– 2023

Epidemiology & Infection

[**Limits in the search date for rapid reviews of diagnostic test accuracy studies**](#) – 2022

Research Synthesis Methods

[**Likelihood ratio interpretation of the relative risk**](#) – 2022

BMJ Evidence-Based Medicine

[**| tPRiors |: a tool for prior elicitation and obtaining posterior distributions of true disease prevalence**](#)

– 2022

BMC Medical Research Methodology

[**Overconfident results with the bivariate random effects model for meta-analysis of diagnostic accuracy studies**](#)

– 2022

Journal of Evidence-Based Medicine

[**Modelling human brucellosis based on infection rate and vaccination coverage of sheep and goats**](#) – 2022

Pathogens

[**The epidemic volatility index, a novel early warning tool for identifying new waves in an epidemic**](#) – 2021

Nature Scientific Reports

[**Unravelling data for rapid evidence-based response to COVID-19: a summary of the unCoVer protocol**](#)

– 2021

BMJ

[Diagnostic accuracy estimates for COVID-19 real-time polymerase chain reaction and lateral flow immunoassay tests with bayesian latent-class models](#)

– 2021

American Journal of Epidemiology

[Diagnostic accuracy of ELISA kits for measurement of rabies antibodies](#) – 2021

Journal of Travel Medicine

[Bayesian latent class analysis when the reference test is imperfect.](#) – 2021

Revue Scientifique et Technique (International Office of Epizootics)

[A new method for synthesizing test accuracy data outperformed the bivariate method](#) – 2021

Journal of Clinical Epidemiology