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Section of Epidemiology  
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## Short presentation

My main research is focused on prediction modelling of adverse outcomes in vulnerable individuals challenged by life-stressors. My primary interest lies in the use of longitudinal, time-series data, their properties and dynamics in classic and machine learning prognostic models. I am also fascinated by the implementation, understanding, and utility of various sources of data that capture further layers of the complexity of human health. My PhD project is placed in the intersection of epidemiology, statistics and machine learning and is part of the CHALLENGE platform, 'Harnessing the Power of Big Data to Address the Societal Challenge of Ageing'.

## Research outputs

### **Assessing racial bias in type 2 diabetes risk prediction algorithms**

Cronjé, Héléne Toinét, Katsiferis, Alexandros, Elsenburg, Leonie K., Andersen, Thea Otte, Rod, Naja Hulvej, Nguyen, Tri-Long & V Varga, Tibor, 17 May 2023, In: PLOS Global Public Health. 3, 5, 15 p., e0001556.

### **Machine learning models of healthcare expenditures predicting mortality: A cohort study of spousal bereaved Danish individuals**

Katsiferis, Alexandros, Bhatt, Samir, Mortensen, Laust Hvas, Mishra, S., Jensen, Majken Karoline & Westendorp, Rudi GJ, 2023, In: PLoS ONE. 16 p.

### **Predicting mortality risk after a fall in older adults using health care spending patterns: a population-based cohort study**

Katsiferis, Alexandros, Mortensen, Laust Hvas, Khurana, Mark Poulsen, Mishra, S., Jensen, Majken Karoline & Bhatt, Samir, 2023, In: Age and Ageing. 52, 8, 9 p.

### **Sex differences in health care expenditures and mortality after spousal bereavement: A register-based Danish cohort study**

Katsiferis, Alexandros, Bhatt, Samir Jagdish, Mortensen, Laust Hvas, Mishra, S. & Westendorp, Rudi GJ, 2023, In: PLoS ONE. 18, 3, 14 p.

### **Dynamical indicators in time series of healthcare expenditures predict mortality risk of older adults following spousal bereavement**

Katsiferis, Alexandros, Yde, Pernille, Jensen, Majken Karoline & Westendorp, Rudi GJ, 2022, In: BMC Geriatrics. 22, 1, 301.

## Qualifications

Computational Biomedicine, M.Sc., University of Southern Denmark  
1 Sep 2019 → 28 Jun 2021  
Award Date: 28 Jun 2021

Actuarial Science & Risk Management, M.Sc., University of Piraeus  
31 Oct 2017 → 15 Jul 2019  
Award Date: 15 Jul 2019

Statistics, B.Sc., University of Piraeus  
1 Sep 2013 → 20 Jun 2017  
Award Date: 20 Jun 2017

## Employment

### **Dynamical Indicators in Epidemiology**

PhD fellow

Section of Epidemiology

København K

1 Jul 2021 → nu