

Theofanis Balanos, Ph.D. Candidate

Department of Biostatistics and Health Data Science
Fairbanks School of Public Health and School of Medicine • Indiana University
410 West 10th Street, Suite 3000 • Indianapolis, IN 46202
Email: tbalanos@iu.edu Tel: +1 (317)720-5689

EDUCATION

IU Richard M. Fairbanks School of Public Health (IUPUI), IN, USA

09/2019 – 05/2025

- Ph.D. in Biostatistics
 - Grade: 3.9 (*GPA*)
 - Thesis Topic: “*R package for multistate models (nonparametric estimation, confidence intervals and confidence bands, two-sample tests), K-sample nonparametric tests for state occupation and transition probabilities (and incorporation in the R package), K-sample nonparametric tests while adjusting for potential confounders via inverse probability weighting (and incorporation in the R package)*”
 - Relevant Coursework: *Introduction to Probability, Mathematical Statistics, Advanced Likelihood Theory, Advanced Longitudinal Data Analysis, Advanced Generalized Linear Models, Advanced Survival Analysis, Introduction to Clinical Trials, Advanced Epidemiology, Overview of Precision Health, Technical Writing and Scientific Reporting, Advanced Statistical Computing, Bayesian Statistics, Systematic Reviews and Meta-Analysis*

National and Kapodistrian University of Athens (NKUA), Athens, Greece

09/2016 – 09/2018

- MSc in Biostatistics
 - Grade: 4.0 (*GPA*)
 - Thesis: “*The effects of exposure to ozone in the respiratory system of children using different exposure indicators.*”
 - Relevant Coursework: *Regression Analysis, Introduction to Generalized Linear Models, Introduction to Survival Analysis, Applied Longitudinal Data Analysis, Introduction to Epidemiology*

National and Kapodistrian University of Athens (NKUA), Athens, Greece

09/2005 - 07/2014

- BSc in Mathematics
 - Concentration: Applied Mathematics
 - Relevant Coursework: Calculus I, II & III (Univariate and Multivariate Calculus), Linear Algebra I & II (including Matrix Theory), Probability I, Statistics I

PROFESSIONAL, RESEARCH, AND VOLUNTEERING EXPERIENCE

Instructor

01/2023 – Present

Department of Biostatistics and Health Data Science
Fairbanks School of Public Health and School of Medicine
Indiana University, Indianapolis, Indiana, USA

- Teaching introduction to Biostatistics course including lectures and labs, with a focus on innovative teaching methods and integrating real-world examples into the curriculum
- Developing study guides, quizzes and exams for the course, incorporating interactive and collaborative learning techniques to enhance student engagement and retention
- Assisting students in the lab during open hours or scheduling one-on-one meetings with students, providing personalized feedback and guidance to help them succeed
- Creating PowerPoint slides to accompany lecture material and organizing classroom materials before each class, ensuring that all course materials are up-to-date and accessible to students

Teaching Assistant

08/2022 – 12/2022

Department of Biostatistics and Health Data Science
Fairbanks School of Public Health and School of Medicine

Indiana University, Indianapolis, Indiana, USA

- Assisting with teaching introduction to Biostatistics course including lectures and labs, providing support to the lead instructor in developing and delivering course content
- Developing study guides, quizzes and exams for the course, incorporating innovative teaching methods to enhance student engagement and retention
- Assisting students in the lab during open hours or scheduling one-on-one meetings with students, providing personalized feedback and guidance to help them succeed
- Creating PowerPoint slides to accompany lecture material and organizing classroom materials before each class, ensuring that all course materials are up-to-date and accessible to students

Research Assistant

08/2019 – 07/2022

Department of Biostatistics and Health Data Science
Fairbanks School of Public Health and School of Medicine
Indiana University, Indianapolis, Indiana, USA

- Performing statistical analyses to evaluate the effect of hazardous drinking on the rates of gap in care and death by using semi-parametric Cox proportional hazards models among adults enrolling in HIV care from the Alcohol Use Assessment Sentinel Cohort (AUAC) prospective study, utilizing advanced statistical methods and programming languages such as SAS, R and Stata to conduct complex analyses
- Managing and manipulating multiple large data sets using Stata, R & SAS, ensuring data integrity and quality control
- Writing and editing statistical programs in Stata, R & SAS, providing clear and concise documentation for complex statistical analyses

Research Assistant

11/2017 – 07/2019

Department of Hygiene, Epidemiology and Medical Statistics School of Medicine
National and Kapodistrian University of Athens, Greece

- Conducting a Panel Study to investigate Ozone effects on children's respiratory health, utilizing advanced statistical methods and programming languages such as Stata, R and SQL to conduct complex analyses
- Managing and manipulating multiple large data sets using Stata, R & SQL, ensuring data integrity and quality control
- Participating in statistical analysis including general linear and nonlinear mixed models, linear regression analysis, longitudinal analysis, and generalized linear models, utilizing advanced statistical methods to gain insights into complex research questions

Tutor, Archimidis Education Center, Athens, Greece

09/2015 – 09/2016

- Assisted undergraduate and postgraduate students with their homework, projects, and thesis, utilizing innovative teaching methods and personalized guidance to enhance student learning and success
- Tutored undergraduate and postgraduate students individually and in small groups in multiple subjects, including Analysis of Variance (ANOVA), Linear Algebra, Probability & Statistics, Intro to Stata and R, Survival Analysis, Generalized Linear Models, tailoring teaching methods to individual student needs

Military service, (mandatory in Greece), Greek Army, Greece

11/2014 - 08/2015

Private Tutor Volunteer in high school level Mathematics and Physics, Athens, Greece

02/2011 - 06/2014

ABSTRACTS & POSTER PRESENTATIONS

- Konstantina Dimakopoulou, **Theofanis Balanos**, Evangelia Samoli, Klea Katsouyanni, Assessing the effects of the Ozone exposure to the Respiratory health in a Panel of Schoolchildren. Poster presentation at the 8th National Conference of the Forum of Public Health and Social Medicine, Larissa, Greece, Nov 22-25, 2018. Poster

COMPUTER SKILLS

- Statistical software: SAS, R, Stata, Python, Java, MATLAB, SPSS, SQL, Latex, BUGS (Bayesian inference Using Gibbs Sampling), ArcGIS
- Scientific document editor: L^AT_EX

- Operating Systems: Windows, Mac OS X

RESEARCH INTEREST

- Research interest: Survival Analysis, Competing-Risks data, Multi-State models, Clinical Trials, Semiparametric models, HIV/AIDS, Cancer

LANGUAGES

- **English** (fluent), **French** (basic), **Greek** (native)