

# IOANNIS OIKONOMIDIS

## STATISTICIAN, PHD CANDIDATE

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## EDUCATION

### PhD in Statistics

National and Kapodistrian University of Athens  
2021 - now

Statistical Techniques for Crop Stage  
Monitoring and Prediction with Remote Sensing  
Data.

### MSc in Statistics & Op. Research

National and Kapodistrian University of Athens  
2019 - 2020    GPA 9.44/10

Generalized Linear Models · Bayesian Statistics ·  
Time Series · Non-Parametric Statistics ·  
Deterministic & Stochastic Models in OR

### Bachelor of Mathematics

National and Kapodistrian University of Athens  
2013 - 2018    GPA 8.23/10

Mathematical Statistics · Linear Models · Game  
Theory · Stochastic Processes

## PUBLICATIONS

### Conferences

Presenter of academic papers in 7 conferences,  
3 of them international

### Academic Papers

Author of 2 academic papers in peer-reviewed  
international journals, 3 more in progress.

### Software Packages

Author of 3 software packages in R · more julia  
and R packages under development

## AWARDS

### PhD Scholarship

Fanourakis Foundation, 2024 - 2025

### MSc & PhD Scholarship

Bodossaki Foundation, 2020 - 2024

### Best Statistics Paper Prize for Young Statisticians

Greek Statistical Institute, 2021

## SKILLS

### Software

R · Julia · MATLAB · jamovi · SPSS · Microsoft  
Office · HTML & CSS · LaTeX

### Driving License

Car (Category B) · Motorcycle (Category A2)

### Languages

Greek (Native) · English (B2) · German (B1)

### Off the Clock

First Aid Trainer & Rescuer at the Red Cross ·  
Professional Pianist

## PROFILE

I am a PhD student at the Mathematics Department of the National and Kapodistrian University of Athens, working under the supervision of Professor [Samis Trevezas](#). The research subject I am working on is statistical techniques for crop stage monitoring and prediction with remote sensing data.

I have worked on several projects as a freelance data analyst, gathering experience from a variety of fields including biostatistics, agronomy, psychology, and econometrics. As my PhD studies come to an end, I would like to continue in R&D on data analytics and consulting to leverage my skills in statistics and machine-learning.

## WORK EXPERIENCE

### Lab Instructor & Teaching Assistant

National and Kapodistrian University of Athens

2020 - now

- Department of Mathematics

Conducted sessions and created teaching material, including R code, exercises, and assignments, for bachelor's and master's level courses on mathematical statistics, non-parametric statistics, linear models, Monte Carlo statistical methods and statistics for stochastic processes. Co-supervised 4 master's students.

- Online Coding Courses - [Fox Bytes](#)

Created a series of online courses on R programming for the Center for Continuing Education and Lifelong Learning (CCE) of the National and Kapodistrian University of Athens. The courses are entirely asynchronous, including video lectures, exercises, and assignments. Upon completing the course, the students are granted a certificate from the CCE. Personally undertook the task of marketing & promotion, including a YouTube channel, social media presence, and advertisement.

### Data Analyst

Freelance

2020 - now

- Agricultural Goal Programming

Developed an automated fertilizer mixer that optimized the proportions of specified fertilizers to produce a final blend most closely matching the target composition. The final product was an MS Excel spreadsheet in which the user could write the available fertilizers' ingredients, the target composition and get the proportions that produced the desired result or, if not possible, the ones that produced the closest mix possible.

- Biostatistics Cohort Study

Analyzed the data derived from a cohort study on stroke survivors' quality of life and the effect of personalized rehabilitation programs. The analysis, performed on SPSS, included cumulative link & binomial mixed-effects logistic modeling and mixed-effects ANOVA. The results showed the positive effect of rehabilitation in time and uncovered the underlying health conditions (hypertension) and demographic variables (marital status) that affected quality of life.

- Crime Rate Spatial Analysis

Worked on the cargo theft crime data of the Federal Bureau of Investigation (FBI). Created a Moran's I cluster map that identified subareas with a high crime rate, significantly reducing the policy application cost. The final product was an interactive report created with R Markdown, leaflet and shiny.

- Index Funds Time Series Analysis

Developed ARIMA time-series models for different components of the S&P 500 index, analyzing their behavior & stability, and forecasting their future values. The final deliverable was a report created with R and LaTeX.