Vasileios (Bill) Katsianos

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Education

University of Chicago

PhD in Statistics   October 2019 - June 2024

- Current GPA: 3.83/4.00
- Advisor: Mary Sara McPeek

National & Kapodistrian University of Athens

MSc in Statistics & Operations Research   October 2016 - September 2018

- GPA: 9.56/10
- Advisor: Loukia Meligkotsidou
- Thesis: Likelihood-Based Inference and Model Selection for Discrete-Time Finite State-Space Hidden Markov Models

National & Kapodistrian University of Athens

BSc in Applied Mathematics   October 2012 - June 2016

- GPA: 9.07/10
- Official Forum Administrator
- Specialization in Statistics & Operations Research

Experience

University of Chicago

Graduate Teaching Assistant   January 2020 - Present

- Applied Regression Analysis (3 quarters)
- Analysis of Categorical Data (3 quarters)
- Applied Linear Stat Methods (1 quarter)
- Nonparametric Inference (1 quarter)
- Sample Surveys (1 quarter)

University of Chicago

Graduate Student Consultant   October 2019 - Present

- Leading consulting meetings with clients from a wide variety of disciplines such as biology, chemistry, neuroscience, ecology, anatomy, geophysics, psychology, sociology and economics
- Providing statistical and coding help with the clients' research projects, assisted by a team of other student consultants

National & Kapodistrian University of Athens

Graduate Laboratory Instructor   October 2016 - December 2020

- Computer Science with Matlab, Python & Java (5 semesters)
- Linear Models with R & SPSS (3 semesters)
- Bayesian Statistics with R (1 semester)
- Multivariate Data Analysis with Matlab & SPSS (1 semester)
- Nonparametric Statistics with R (1 semester)

Teaching Materials

The latest versions are available on my personal website.

- Mathematical Statistics
- Linear Models (in Greek · Pending Translation)
- Simulation
- Introductory Applied Statistics Tutorial (in Progress)
- Advanced Applied Statistics Tutorial (in Progress)
- Bayesian Statistics Tutorial
- Hidden Markov Models Tutorial
- Linear Algebra for Statistics (in Progress)

Research Projects

Joint Association Analysis of Abundances of Two X. Arboricola Strains Co-Infecting an A. Thaliana Line

University of Chicago   September 2023 - Present

Joint Association Analysis of Hepatitis C Pretreatment Viral Load Using Both Human and Viral Genomes

University of Chicago   October 2021 - Present

Invited Talks

Graduate Student Seminar, Department of Statistics & Operations Research, UNC Chapel Hill   April 2023

Monte Carlo Statistical Methods Seminar, Department of Mathematics, National & Kapodistrian University of Athens   May 2021

Awards & Scholarships

Consulting Award, Statistics Consulting Program, University of Chicago   2021-2022

Graduate Excellence Scholarship, MSc in Statistics & Operations Research, National & Kapodistrian University of Athens   2016-2017

Skills

Programming	R, Matlab, Python, Java, C & C++, HTML & CSS
Miscellaneous	Latex (Overleaf & R Markdown), R Shiny, IBM SPSS, Microsoft Office, Linux, Git
Analytical Skills	Data Analysis & Visualization, Coding Help & Debugging, Consulting, Problem-Solving
Communication Skills	Teaching & Tutoring, Writing Statistical & Coding Tutorials, Public Speaking & Presenting, Team Leading

Languages

English	Full professional proficiency
Greek	Native proficiency
French	Limited working proficiency