Vasileios (Bill) Katsianos

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Education

University of Chicago

PhD in Statistics   October 2019 - July 2024

- GPA: 3.87/4.00
- Advisor: Mary Sara McPeek
- Dissertation: Genetic Association Analysis of Phenotypes Jointly Influenced by a Pair of Interacting Organisms

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

Work Experience

Washington University in St. Louis

Lecturer in Statistics and Data Science   August 2024 - Present

- Probability (1 semester)
- Topics in Statistics: Machine Learning Methods in Biological Sciences (1 semester)

University of Chicago

Graduate Teaching Assistant   January 2020 - June 2024

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

University of Chicago

Graduate Student Consultant   October 2019 - December 2023

- Led consulting meetings with clients from a wide variety of disciplines such as biology, chemistry, neuroscience, ecology, anatomy, geophysics, psychology, sociology and economics.
- Provided statistical and coding help with client research projects, assisted by a team of other student consultants.
- Summarized and presented statistical issues discussed and solutions provided in the weekly consulting seminar.

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)

Invited Talks

CAM & Stats Student Seminar, Department of Statistics, University of Chicago   April 2024

Graduate Student Seminar, Department of Statistics & Operations Research, University of North Carolina at Chapel Hill   April 2023

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

Teaching Materials

Available and regularly updated on my personal website.

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

Research Projects

Joint Association Analysis of Abundances for a Pair of 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

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