

Panagiotis Andreou

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EDUCATION

PhD Statistics & Operations Research
University of North Carolina at Chapel Hill

Expected: May 2026
Chapel Hill, NC

MSc Statistics & Operations Research
University of North Carolina at Chapel Hill

May 2025
Chapel Hill, NC

MSc Statistics & Operations Research

National and Kapodistrian University of Athens

Thesis title: The Bootstrap Method for Discrete-Time Markov Chains and Applications

Jun 2023
Athens, Greece
GPA: 9.33/10

BSc Mathematics

National and Kapodistrian University of Athens

Specialization in Statistics & Operations Research

Jun 2020
Athens, Greece
GPA: 9.44/10 (top 1.2%)

RESEARCH

Group Factor Models for High-Frequency Data (in preparation)
with Andrii Babii, Eric Ghysels, and Mirko Rubin

Homogeneity Fusion for Grouped Network VAR Models (in preparation)
with Vlasdas Pipiras & Changryong Baek

Opinion dynamics on non-sparse networks with community structure ([Submitted](#))
with Mariana Olvera-Cravioto

EXPERIENCE

Research Assistant

University of North Carolina at Chapel Hill

- “Machine Learning for Time Series”
PIs: Gerald Cohen, Eric Ghysels
May 2025 - May 2026
- PROJECT ID: 5122181, “Network Time Series: From Dynamics to Coevolution”
PI: Vlasdas Pipiras
Summer II, 2024
- NSF grant CMMI-2243261: “Opinion Dynamics on Complex Networks”
PI: Mariana Olvera-Cravioto
Spring 2024

Instructor

University of North Carolina at Chapel Hill

- STOR 155 - Introduction to Data Models and Inference
Fall 2023, Summer 2024, Spring 2025

Teaching Assistant

University of North Carolina at Chapel Hill

- STOR 654 - Theoretical Statistics I (PhD)
Fall 2024
- STOR 435 - Introduction to Probability
Spring 2023
- STOR 557 - Advanced Methods in Data Analysis
Fall 2022
- STOR 155 - Introduction to Data Models and Inference
Spring 2021

Tutoring Undergraduate Students

University of North Carolina at Chapel Hill

- STOR 113: Decision Models for Business and Economics
- STOR 155: Introduction to Data Models and Inference
- STOR 215: Foundations of Decision Sciences (Discrete Math)
- STOR 435: Introduction to Probability
- STOR 445: Stochastic Modeling
- PLCY 460: Quantitative Analysis for Public Policy

TECHNICAL SKILLS

Python, R, Microsoft Office, L^AT_EX

AWARDS

<i>2025 MLAX Faculty/Staff Appreciation Day</i> (Link)	Feb 2025
<i>Excellence in Teaching Assistance and Instruction Award</i> (Link)	Dec 2022
<i>National Prize Money Award</i> , for top score in the Panhellenic Exams	Nov 2016
<i>Award from the Department of Mathematics</i> , for entering 2nd among 250 students	Aug 2016

TALKS

Homogeneity Fusion for Sparse Grouped Network VAR Models (Link) Virtual Workshop for Junior Researchers in Time Series	Apr 2025 VTSS
Homogeneity Fusion for Sparse Grouped Network VAR Models Graduate Student Seminar	Apr 2025 Chapel Hill, NC
Opinion dynamics on non-sparse networks with community structure Graduate Student Seminar	Mar 2024 Chapel Hill, NC
Opinion Dynamics on Directed Inhomogeneous Networks (Link) Seminar of Statistics and Operations Research, NKUA	Oct 2023 Athens, Greece
Bayesian Bootstrap for the Transition Matrix of Finite State-Space Markov Chains (Link) Graduate Student Seminar	Sep 2021 Chapel Hill, NC

CONFERENCES

2025 Joint Statistical Meetings (Link) 1-hr talk	Aug 2025 Nashville, TN
Conference on New Developments in Probability (Link) Centre de Recherches Mathématiques Poster presentation	Sep 2024 Montreal, Canada
Graduate Student Probability Conference (Link) University of Wisconsin-Madison Poster presentation & 30' talk	Sep 2024 Madison, WI
Seminar on Stochastic Processes (Link) Rice University Poster presentation & lightning talk	Mar 2024 Houston, TX

STORFest - Celebrating 75 years of Statistics (Link) University of North Carolina at Chapel Hill Poster presentation	Sep 2023 Chapel Hill, NC
Southeastern Probability Conference II (Link) University of Virginia	Aug 2023 Charlottesville, VA
Southeastern Probability Conference I (Link) Duke University	May 2023 Durham, NC
Mathematics: foundation of the human thought (Link) Hellenic Mathematical Society	Nov 2016 Chania, Greece

DEPARTMENTAL SERVICE

UNC Science Expo 2025 (Link) Coordination of the Monty Hall Problem activity	Apr 2025 Chapel Hill, NC
BIOS-STOR Liaison Organizing monthly joint talks in the Biostatistics and STOR departments	Fall 2024 Chapel Hill, NC
UNC Science Expo 2024 (Link) Coordination of the Birthday Problem activity	Apr 2024 Chapel Hill, NC
STOR Data Outreach Program for Students 2024 Teaching Contemporary Mathematics Conference (Link) North Carolina School of Science and Mathematics	Feb 2024 Durham, NC
Graduate Student Seminar coordinator Coorganizing weekly seminar talks by PhD students	Aug 2023 - Dec 2023 Chapel Hill, NC
UNC Science Expo 2023 (Link) Coordination of the Galton Board activity	Apr 2023 Chapel Hill, NC

MINI-COURSES & WORKSHOPS

Workshop on Stein's method and Networks (Link) Oxford University	Jun 2024
Multivariate Power Laws and Preferential Attachment Modeling (Link) by Sidney Resnick (Cornell University)	Jan 2023 Chapel Hill, NC
A Celebration in Memory of Ross Leadbetter (Link) UNC Chapel Hill	Feb 2023 Chapel Hill, NC
Stochastic Calculus with Poisson processes and their application to Biology (Link) by Philippe Robert (INRIA, France)	Nov 2022 Chapel Hill, NC

COURSE PROJECTS

Mathematics of Deep Q-Learning for the graduate course <i>Reinforcement Learning</i>	
Simulating the Movement of Trains and Passengers for the graduate course <i>Simulation Modeling</i>	
Mean Field Analysis for PageRank for the graduate course <i>Probability for Networks and Algorithms</i>	
Generative Adversarial Networks for the graduate course <i>Applied Statistics II</i>	
Estimating the Transition Matrix of a Markov Chain for the graduate course <i>Object Oriented Data Analysis</i>	
Bayesian Linear Regression and MCMC methods for the graduate course <i>Bayesian Inference</i>	
Jackknife and Bootstrap for the undergraduate course <i>Nonparametric Statistics</i>	
Time Series Analysis for Investment Data for the graduate course <i>Time Series</i>	

LANGUAGES

Greek: Native Language

English: Fluent (C2 Michigan, IELTS: 8.5/9)

German: Intermediate Level (B2, Goethe Institut)

EXTRACURRICULAR ACTIVITIES

- Co-author in a file ([Link](#)) for *Mathematical Statistics*, 2024
- Co-translator of Prof. Loukia Meligkotsidou's book *Bayesian Inference*, 2019
- Contribution as a high school student at the writing of a mathematics book for the panhellenic exams, 2016
- School Table Tennis Championship, 2012, Gold Medal