Dr. Georgios Vasiliadis

Associate Professor

Department of Mathematics, University of Western Macedonia

Personal Details

Full Name: Georgios Vasiliadis
Date of Birth: July 27, 1979
Address: Ampelokipi, Kastoria, PC 52057, Greece
Phone: +30 2467440057
Email: gvasiliadis@uowm.gr

Education

2004 – 2008 **Ph.D. in Mathematics / Statistics & Operations Research**
Aristotle University of Thessaloniki, Department of Mathematics.
Thesis Title: "Recursive relations for the moments of the state sizes of the homogeneous Markov system with or without capacities".

2002 – 2004 **M.Sc. in Statistics and Operations Research**
Aristotle University of Thessaloniki, Department of Mathematics.

1998 – 2002 **B.Sc. in Mathematics**
Aristotle University of Thessaloniki, Department of Mathematics.

Academic Positions

09/2026 – Present **Associate Professor**, Department of Mathematics, University of Western Macedonia (Kastoria, Greece). *Field:* Stochastic Processes.

2021 – 08/2026 **Assistant Professor**, Department of Mathematics, University of Western Macedonia.

2019 – 2021 **Academic Fellow / Adjunct Lecturer**, University of Western Macedonia.

2017 – 2020 **Adjunct Academic Staff (SEP)**, Hellenic Open University (H.O.U.), Business Administration Program (DEO).

2015 – 2026 **Lecturer in M.Sc. Programs**, Joint M.Sc. "Modern Information Technologies and Services" (UOWM – UniPi) & M.Sc. "Public Administration" (UOWM).

2010 – 2012 **Adjunct Lecturer**, Department of Mathematics, Aristotle University of Thessaloniki.

2005 – 2019 **Scientific / Laboratory Associate**, Technological Educational Institute (T.E.I.) of Western Macedonia.

Research Interests

- **Stochastic Models & Processes:** Homogeneous and Non-Homogeneous Markov Systems.
- **Queueing Theory:** Queueing Systems and Networks of Queueing Systems.
- **Applications:** Stochastic Modeling in Epidemiology and Statistical Seismology.

Textbooks / Academic Books

2019: Vasiliadis G., Kalogiratou Z., Monovasilis T. *Introduction to Statistics with applications in SPSS and Excel* (2nd Edition). Benou Publications (ISBN: 978-960-359-155-9) [in Greek].

Selected Publications

1. **Papageorgiou, V.E., Vasiliadis, G. and Tsaklidis, G. (2025).** An Enhanced Epidemic Susceptible-Infected-Hospitalized-Recovered-Deceased (SIHRD) Stochastic Model with Emphasis on the Impact of Hospitalizations on Epidemic Evolution. *Methodology and Computing in Applied Probability*, 27(3), 55.
2. **Papageorgiou, V.E., Vasiliadis, G. and Tsaklidis, G. (2025).** A new method for the estimation of stochastic epidemic descriptors reinforced by Kalman-based dynamic parameter estimation. Application to mpox data. *Mathematical Biosciences*, 381, 109365.
3. **Papageorgiou, V.E. and Vasiliadis, G. (2025).** Transient analysis of a SIQS model with state capacities using a non-homogeneous Markov system. *Journal of the Franklin Institute*, 362(1), 107347.
4. **Papageorgiou, V.E., Vasiliadis, G. and Tsaklidis, G. (2024).** Analyzing the Asymptotic Behavior of an Extended SEIR Model with Vaccination for COVID-19. *Mathematics*, 12(1), 55.
5. **Mangira, O., Vasiliadis, G., Tsaklidis, G. and Papadimitriou, E. (2021).** A constrained-memory stress release model (CM-SRM) for the earthquake occurrence in the Corinth Gulf (Greece). *Environ Ecol Stat*, 28, 135–151.
6. **Burnetas, A., Economou, A. and Vasiliadis, G. (2017).** Strategic customer behavior in a queueing system with delayed observations. *Queueing Systems*, 86, 389–418.
7. **Vasiliadis, G. (2016).** Transient analysis of a finite source discrete-time queueing system using homogeneous Markov system with state size capacities (HMS/c). *Communications in Statistics - Theory and Methods*, 43(5), 1403–1423.
8. **Vasiliadis, G. (2014).** Transient analysis of the M/M/k/N/N queue using a continuous time homogeneous Markov system with finite state size capacity. *Communications in Statistics - Theory and Methods*, 43(7), 1545–1562.
9. **Vasiliadis, G. (2012).** On the distributions of the state sizes of the continuous time Homogeneous Markov System with finite state capacities. *Methodology and Computing in Applied Probability*, 14, 863–882.
10. **Vasiliadis, G. and Tsaklidis, G. (2008).** On the distributions of the state sizes of discrete time Homogeneous Markov Systems. *Methodology and Computing in Applied Probability*, 10(1), 55–71.