

• EDUCATION

University of Texas at Arlington - Arlington, Texas

Ph.D. - Department of Mathematics, July 2009

Thesis: Large deviation principle for functional limit theorems

Michigan State University - East Lansing, Michigan

Master of Science - Department of Statistics and Probability, May 2006

University of Bucharest - Bucharest, Romania

Master of Science - Department of Mathematics, June 1998

Thesis: Local times for Brownian motion on Sierpinski gasket

University of Bucharest - Bucharest, Romania

Bachelor of Science - Department of Mathematics, June 1997

Thesis: Local times for Brownian motion

• PROFESSIONAL EXPERIENCE

New Mexico State University, Las Cruces, NM

Assistant Professor - Department of Mathematical Sciences, August 2020 -

State University of New York at Buffalo, Buffalo, NY

Affiliated Faculty - School of Management, Department of Finance, August 2017 - May 2020

Affiliated Faculty - Department of Mathematics, August 2019 - May 2020

Canisius College, Buffalo, NY

Assistant Professor - Department of Mathematics and Statistics, September 2015 - May 2020

Barry University, Miami, FL

Assistant Professor - Department of Mathematics and Computer Sciences, August 2009 - May 2015

University of Texas at Arlington, Arlington, TX

GTA - Department of Mathematics, August 2006 - July 2009

Michigan State University, East Lansing, MI

GTA - Department of Statistics and Probability, August 2003 - May 2006

Polytechnic University of Bucharest, Bucharest, Romania

Lecturer - Department of Mathematics, October 1998 - June 2003

- PUBLICATIONS

A. Oprisan, “Large deviation principle for additive functionals of semi-Markov processes”, in *Stochastic Analysis and Applications*, 2022

L. Khinkis, M. Crotzer, A. Oprisan, “Sizing up the regions of unique minima in the least squares nonlinear regression”, in *Mathematics for Applications*, Volume 7 (2018), 41-52

A. Oprisan, “An invariance principle for additive functionals of semi-Markov processes”, in *Lecture Notes in Computer Science*, Springer, LNCS 10684, (2017), 409-420

A. Oprisan, “Limit theorems for additive functionals of semi-Markov processes”, *Proceedings volume of ACMPT 2017 conference - Analytical and Computational Methods in Probability Theory and its Applications, Moscow* , 659-664

A. Oprisan, “ An almost sure central limit theorem for autoregressive processes”, in *International Journal of Computational and Theoretical Statistics*, Volume 4, Issue 1 (May 2017), 77-82

A. Oprisan and A. Korzeniowski, “Large deviations via almost sure CLT for functionals of Markov processes”, in *Stochastic Analysis and Applications*, Volume 30, No 5 (2012), 933-947

A. Oprisan and A. Korzeniowski, “Large deviations application to exit times for switched Markov Processes”, in *International Journal of Pure and Applied Mathematics*, Volume 69, No 2 (2011), 137-150

A. Oprisan, “Large deviation principle and applications to exit times” - short paper in the *Proceedings of the International Workshop of Applied Probability, 2010*

A. Oprisan and A. Korzeniowski, “Large deviations for additive functionals of Markov processes”, in *International Journal of Pure and Applied Mathematics*, 53 (2009), 441-459

A. Oprisan and A. Korzeniowski, “Large deviation principle for ergodic processes on split spaces”, in *Dynamic Systems and Applications* 18 (2009), 589-604

A. Oprisan “Large deviation principle for functional limit theorems”, *University of Texas at Arlington*, PhD thesis 2009

A. Dobrescu (Oprisan) and O. Stanasila, “Essential exercises and problems in Advanced Mathematics”, in *Printech*, Bucharest, 2003, ISBN 973-652-785-9

A. Dobrescu (Oprisan), ”Local times for the Brownian Motion on the Sierpinski Gasket”, in *Scientific Bulletin-University Politehnica of Bucharest*, 2001

- TEACHING

New Mexico State University

MATH 1350 - Introduction to Statistics

STAT 251 - Statistics for Business & Life Sciences

STAT 371 - Statistics for Engineers and Scientists I

STAT 470/515 - Probability: Theory and Applications

STAT 563 - Advanced Topics in Stochastic Processes

State University of New York at Buffalo

MTH 511 - Probability Theory

MGF 634 - Quantitative Methods in Finance

Canisius College

MAT 105 - Finite Mathematics

MAT 111 - Calculus I

MAT 115 - Calculus for Business

MAT 131 - Statistics for Social Sciences

MAT 141 - Inferential Statistics for Science

MAT 191 - Introduction to Discrete Mathematics

MAT 219 - Linear Algebra

MAT 230 - Logic, Sets Theory, and Proofs

MAT 351 - Probability and Statistics I

MAT 352 - Probability and Statistics II

MAT 370 - Topics in Statistics: Probability Models with applications in Finance

DAT 512 - Multivariate Statistical Analysis

Barry University

MAT 109/110 - Precalculus I and II

MAT 152 - Elementary Statistics and Probability

MAT 199 - Current Topics in Science and Mathematics

MAT 203 - Geometry for Teachers

MAT 211 - Calculus I

MAT 214 - Introduction to Financial Mathematics

MAT 230/330 - Statistical Methods I and II

MAT 252 - Statistics for Psychology

MAT 317 - Introduction to Actuarial Mathematics

MAT 332 - Linear Algebra

MAT 359 - Financial Mathematics

MAT 451 /452 - Probability Theory and Mathematical Statistics

MAT 487 - Undergraduate Mathematics Seminar

University of Texas at Arlington

College Algebra

Precalculus II

Michigan State University

Elementary Statistics and Probability

Polytechnic University of Bucharest

Mathematical Analysis

Complex Analysis

Linear Algebra

Probability Theory

Differential Equations

Advanced Mathematics: topics on Fourier and Laplace transforms, differential equations and complex analysis

- **ACTIVITIES/TALKS**

Fall 2021, Students Seminar, NMSU

Seldom is Meaningful

Modern Stochastic: Theory and Applications-V, Kyiv, June 1-4, Session: Stochastic models of evolution systems - dedicated to the main research topics of academician Volodymyr Korolyuk.

Title of the talk: Large deviations for additive functionals of semi-Markov processes

Math Colloquium, NMSU, May 7 2021

Average and Diffusion Approximation Principles

Spring 2021, Probability Seminar, NMSU

Markov processes - a strong approach, Potential Theory for Markov Processes, Brownian Motion as a strong Markov process

Spring 2021, Statistics Seminar, NMSU

Wishart matrices and the semi-circle law

Fall 2020, Probability Seminar, NMSU

Weak convergence methods in metric spaces, Kolmogorov construction of Brownian motion, Donsker invariance principle and Wiener measure, Weak convergence on the Skorohod space, Almost sure central limit theorems, Large deviation principle

2019 Joint Mathematics Meetings, Baltimore, January 2019

Invited talk, AMS special session: Orthogonal Polynomials, Quantum Probability, Harmonic and Stochastic Analysis.

Title of the talk: Almost sure central limit theorem for additive functionals of semi-Markov processes

Up-Stat 2018, Upstate Chapters of the American Statistical Association Conference, University of Rochester, April 2018

Session chair and judge for student competition

2018 Joint Mathematics Meetings, San Diego, January 2018

Invited talk, AMS special session: Stochastic Processes, Stochastic Optimization and Control, Numerics and Applications.

Title of the talk: An almost sure central limit theorem for autoregressive processes

ACMPT-2017 Analytical and Computational Methods in Probability Theory, Moscow University, October 2017, special session: Analytical Methods and Limit Theorems.

Title of the talk: Limit theorems for additive functionals of semi-Markov processes

Canisius College, April 26 , 2017

Seminar talk: Weak convergence methods in metric spaces

Up-Stat 2017, Canisius College, April 2016

Co-chair of local organizing committee, session chair and judge for student competition

2017 Joint Mathematics Meetings, Atlanta, January 2017

AMS Contributed paper session, Probability Theory and Stochastic Processes.

Title of the talk: An invariance principle for additive functionals of Semi-Markov processes

Up-Stat 2016, Canisius College, April 22-23, 2016

Member of local organizing committee, session chair and judge for student competition

Canisius College, September 23 , 2015

Seminar talk: Brownian Motion: from origin to present developments

AMS 2015 Spring Southeastern Section Meeting, Huntsville, March 2015

Invited talk, Special Session on Stochastic Analysis and Applications.

Title of the talk: Large deviations for additive functionals of Markov processes and applications

2015 Joint Mathematics Meetings, San Antonio, January 2015

AMS Contributed paper session, Probability Theory and Stochastic Processes.

Title of the talk: Asymptotic results for additive functionals of Semi-Markov processes

2014 Joint Mathematics Meetings, Baltimore, January 2014

AMS Contributed paper session, Probability and Stochastic Dynamical Systems.

Title of the talk: On an almost sure functional central limit theorem for Semi-Markov processes

Joint International Meeting of The American Mathematical Society and The Romanian Mathematical Society, Alba Iulia, Romania, June 2013

Special session on Probability and its Relation to Other Fields of Mathematics.

Title of the talk: Stochastic additive functionals with applications

2013 Joint Mathematics Meetings, San Diego, January 2013

AMS special session on stochastic analysis of stochastic differential equations and stochastic partial differential equations.

Title of the talk: Large deviations via almost sure CLT for functionals of Markov processes

AMS 2012 Spring Southeastern Section Meeting, Tampa, March 2012

Invited talk, Special Session on Stochastic Analysis and Applications.

Title of the talk: Large deviation principle for additive functionals of Markov processes

Markov&Semi-Markov&Related Fields, Greece, September 2011

Title of the talk: Large deviations from an almost sure central limit theorem for additive functionals of Markov processes

The Fifth International Workshop in Applied Probability, Spain, July 2010

Invited talk.

Title of the talk: Large deviations and their applications to the problem of exit from a domain

3rd Annual Graduate Student Conference in Probability, North Carolina, May 2009
Contributed talk.

Title of the talk: Large deviation principle for functional almost everywhere central limit theorems of additive functionals

Joint Mathematical Meeting, Washington D.C., January 2009

Contributed talk.

Title of the talk: Large deviation principle for stochastic additive functionals on split spaces

7th AIMS International Conference, Arlington, Texas, May 2008

chair of the contributed session: ODEs and Applications

Mathematical Center of Statistics, Romanian Academy of Sciences, Bucharest, Romania January - June 1999

Seminar talks on Martingales, Stochastic Calculus, Financial Mathematics (Black-Scholes models), Brownian motion on the Sierpinski gasket

- **UNDERGRADUATE RESEARCH ADVISING**

Honor Thesis Adviser - Canisius College

Thesis: Sampling from the Posterior - An Introduction to Sampling Distributions and Bayesian Inference, 2019

Student: Noah Gould

Ignatian Scholarship Day - Canisius College

Poster Presentation: A Simple Introduction to Brownian Motion - with applications to quantitative finance, 2016

Student: Dan Foley

STEM Research Symposium - Barry University

Girsanov Theorem and Risk-Neutral Valuation, 2010 - student: Legna Rodriguez

Black Scholes Model and the Feynman-Kac Formula, 2010 - student: Tessa Fredeick

Mathematical Methods in Risk Theory and Applications to Automobile Liability Insurance, 2014 - student: Leo Lok Hin Law

- **SERVICE**

NMSU, Department of Mathematical Sciences - Graduate Committee member

NMSU, Department of Mathematical Sciences - Colloquium, co-organizer, Fall 2021

NMSU, Department of Mathematical Sciences, Undergraduate Curriculum Committee - member, since Fall 2020

NMSU, Department of Mathematical Sciences - Probability Seminar, co-organizer, since Fall 2020

Mathematical Reviews - reviewer, since February 2013

ESAIM: Control, Optimisation and Calculus of Variations - reviewer, July 2020

SpringerBriefs in Mathematics series - reviewed the book *Concentration Inequalities for Sums and Martingales*, by Bernard Bercu, Bernard Delyon and Emmanuel Rio, 2015

Journal of Modern and Applied Statistical methods -reviewer, since September 2016

University of Rochester, **Up-Stat 2018** Conference: Upstate Chapters of the American Statistical Association Conference; session chair and judge for student competition

Canisius College, **Up-Stat 2017** Conference: Upstate Chapters of the American Statistical Association Conference - co-chair of the local organizing committee; session chair and judge for student competition

Canisius College, **Up-Stat 2016** Conference: Upstate Chapters of the American Statistical Association Conference - member of the local organizing committee; session chair and judge for student competition

Canisius College, Department of Mathematics and Statistics - department assessment coordinator, 2016-2019

Canisius College, Faculty-Student Liaison Committee - member, 2015-2016

Chair of the **AMS Section Probability Theory and Stochastic Processes**, Joint Mathematics Meetings, San Antonio, January 2015

Barry M. Goldwater scholarship - faculty representative Barry University, 2010-2015

Faculty Senate Barry University, Ethics Committee - member, 2011-2013

Faculty Senate Barry University , Welfare Committee - member, 2013-2015

Barry University - STEM Research Symposium - committee member, mathematics and computer sciences department representative, 2012-2015

- **SKILLS**

Professional software packages for statistics: Minitab, R, SPSS, S-Plus, SAS, Mathematica; \TeX typesetting

- **AWARDS**

Stephen R. Bernfeld Memorial Scholarship, spring 2007, Department of Mathematics, University of Texas at Arlington

- **AFFILIATIONS**

American Mathematical Society

Romanian Society of Probability and Statistics

- **REFERENCES**

Provided upon request