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# Curriculum Vitae

## George A. Rus

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### Professional and Teaching Experience

- Mathematics Senior Instructor  
*University of Colorado Colorado Springs* Aug. 2014 – Present
- MathOnline Director  
*University of Colorado Colorado Springs* Aug. 2019 – Present
- Mathematics Instructor  
*University of Colorado Colorado Springs* Aug. 2009 – August 2014

Instructor for fifteen different courses

- Math 5330/6330 - Real Analysis I
- Math 4650/5650 - Numerical Analysis
- Math 4480/5480 - Mathematical Modeling
- Math 3810 - Introduction to Probability and Statistics
- Math 3400 - Introduction to Differential Equations
- Math 3130 - Introduction to Linear Algebra
- Math 2650 - Introduction to Computational Mathematics
- Math 2350 - Calculus III
- Math 1360 - Calculus II
- Math 1350 - Calculus I
- Math 1320 - Calculus I with Refresher Precalculus B
- Math 1310 - Calculus I with Refresher Precalculus A
- Math 1050 - Precalculus
- GRE Prep Course
- GPS 1010 - Numbers

Instructor for six MathOnline Courses

- Math 3810 - Introduction to Probability and Statistics
- Math 3400 - Introduction to Differential Equations
- Math 3130 - Introduction to Linear Algebra
- Math 2350 - Calculus III

- Math 1360 - Calculus II
- Math 1350 - Calculus I
  
- Mathematics Teaching Assistant/Instructor  
*University of Wisconsin–Milwaukee* Aug. 2004 – Aug. 2009
  - Sole instructor for nine different courses
  - Created all syllabi
  - Planned all course activities
  - Graded all assignments, quizzes, and exams
  - Utilized technology in class, including D2L
  - Held extra review sessions
  
- Mathematics Lecturer  
*Western Illinois University* Aug. 2003 – May 2004
  - Created the syllabi
  - Planned all course activities
  - Graded all assignments, quizzes, and exams
  
- Math and Stat Tutor for University Advising & Academic Support Center  
*Western Illinois University* Jan. 2003 – May 2004
  - Tutored one-on-one and in small groups for all levels of mathematics
  - Taught students to use graphing calculators and computing software

### **Awards and Recognition**

- Campus Outstanding Instructor Award, UCCS, 2019
- LAS Outstanding Instructor Award, UCCS, 2013
- The Office of First Year Experience recognition as one of the top twelve professors who made the biggest impact on their lives, as voted by the RAs and students, UCCS, 2012
- Chancellor’s Graduate Student Award, Department of Mathematics, UWM, 2005–2009

### **Professional Education**

- Ph.D., Mathematics, University of Wisconsin-Milwaukee 2009  
Advisors: Professor R.H. Stockbridge and Professor B.A. Wade.
  - Concentrations: Probability and Numerical Analysis
  - Dissertation: "Finite Element Methods for Control of Singular Stochastic Processes"
  - Cumulative GPA 4.0/4.0
  
- M.S., Mathematics, Western Illinois University 2004
  - Passed Comprehensive Oral Examinations with distinction
  - Cumulative GPA 4.0/4.0
  
- B.S., Mathematics, University of Bucharest, Romania 2002

## Volunteer Work

- Tutoring and Mentoring
  - Tutor and mentor University of Wisconsin System students
  - Share my knowledge of campus resources
  - Provide study, review, and test-taking strategies

## Professional Development

### 1. Refereed Publications

- *Numerical Solution of a Long-term Average Control Problem for Singular Stochastic Processes*, (with P. Kaczmarek, S.T. Kent, R.H. Stockbridge and B.A. Wade), *Mathematical Methods of Operations Research (Math Meth Oper Res)*, V. 66, 2007, 451–473.

### 2. Unpublished Research

- (Ph.D. Dissertation) *Finite Elements Methods for Control of Singular Stochastic Processes*, Ph.D. Dissertation, 2009.

### 3. Conference and Poster Presentations

- 2nd Graduate Student Conference in Probability, University of Wisconsin – Madison, 2008. Title: *Numerical Solution of Stochastic Controlled Problems*.
- Markov Processes and Related Topics, University of Wisconsin – Madison, 2008. Title: *Numerical Solution of Stochastic Controlled Problems*.

### 4. Research and Workshops

- MS Independent Study Research Project, Western Illinois University, Dec. 2002. Title: *Analysis of Quasi-Newton Methods for Unconstrained Optimization*.
- MS Independent Study Research Project, Western Illinois University, May 2003. Title: *Analysis and Application of the Cubic Spline Technique in Constructing Images*.
- Industrial Mathematics and Statistical Modeling Workshop for Graduate Students, NC State University, 2003. Title: *Rational Price Limits/Circuit Breakers in Futures/Equity Markets*.

### 5. Conferences and Lectures Attended

- 2nd Graduate Student Conference in Probability, University of Wisconsin – Madison, 2008
- Markov Processes and Related Topics, University of Wisconsin – Madison, 2008
- 7th International Conference on Computational and Mathematical Methods in Science and Engineering – Chicago, 2007
- The Marden Lecture Series, University of Wisconsin-Milwaukee, 2006 – 2009
- Probability and Financial Mathematics Seminar Talks, University of Wisconsin-Milwaukee, 2006 – 2009
- Mathematical Sciences Colloquia, University of Wisconsin-Milwaukee, 2005 – 2009

## Affiliations and Memberships

- AMS: American Mathematical Society, since 2003
- MAA: Mathematical Association of America, since 2004

## **Additional Information**

### *1. Computing Skills*

- Software: Maple, MATLAB, C/C++, Fortran, Windows, MS Office, Latex
- Hardware: Extensive experience building, upgrading and maintaining computers

### *2. Foreign Language Skills*

- Native in English and Romanian
- Reading and working knowledge in French and Italian