

AMY POTRZEBA MACRINA

AREA OF INTEREST: Mathematics/Statistics: Time Series Analysis, Forecasting, Spectral Analysis of Longitudinal Data

PERMANENT ADDRESS:
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OBJECTIVE: To obtain a full-time Mathematics/Statistics faculty position.

EDUCATION: Ph.D in Statistics (May 2013)
University at Albany, Albany, NY

M.A. in Mathematics (May 2008)
University at Albany, Albany, NY

B.A. in Mathematics & Economics (May 2005)
Utica College of Syracuse University, Utica, NY
Summa cum Laude

PUBLICATIONS/PRESENTATIONS:

- **Potrzeba-Macrina, AL & Zurbenko, IG (2020).** Numerical Predictions for Global Climate Changes. WSN 144(2020): 208-225. EISSN 2392-2192. <http://www.worldscientificnews.com/wp-content/uploads/2020/03/WSN-144-2020-208-225.pdf>
- **Zurbenko, IG & Potrzeba-Macrina, AL (2019).** Analysis of Regional Global Climate Changes due to Human Influences. WSN 132(2019): 1-15. EISSN 2392-2192. <http://www.worldscientificnews.com/wp-content/uploads/2019/06/WSN-132-2019-1-15.pdf>
- **Potrzeba-Macrina, AL & Zurbenko, IG (2019).** Periods in Solar Activity. Advances in Astrophysics Vol 4, No 2, p 47-60. <https://dx.doi.org/10.22606/adap.2019.42001>
- **Zurbenko, IG & Potrzeba-Macrina, AL (2019).** Solar Energy Supply Fluctuations to Earth and Climate Effects. World Scientific News. WSN 120(2): 111-131. EISSN 23292-2192. <http://www.worldscientificnews.com/wp-content/uploads/2019/01/WSN-1202-2019-111-131.pdf>
- **Potrzeba-Macrina, AL & Zurbenko IG (2017).** "Computational Aspects of Spectral Estimations and Periodicities in Irregularly Observed Data." Journal of Probability and Statistical Science 15 (2), p 233-246
- **Zurbenko, IG & Potrzeba-Macrina, AL (2013)** Periods of Excess Energy in Extreme Weather Events. Journal of Climatology, Hindawi, Vol 2013. DOI: 10.1155/2013/410898
- **Zurbenko, IG & Potrzeba, AL (2013)** Tides in the Atmosphere. Air Quality, Atmosphere, & Health, Springer, Vol 6 (1): 39-46. DOI 10.1007/s11869-011-0143-6
- **Zurbenko, IG & Potrzeba, AL (2009)** Tidal Waves in Atmosphere and Their Effects. Acta Geophysica, Springer, Vol 58 (2): 356-373. DOI 10.2478/s11600-009-0049-y
- **Potrzeba, AL & Zurbenko, IG (2008)** Algorithm of periodic signal reconstruction with applications to tidal waves in atmosphere. In *JSM Proceedings*, Poster topic engineering and physical sciences, chemo metrics. Alexandria, VA: American Statistical Association
- Presented ("The Algorithm of Periodic Signal Reconstruction") at the Joint Statistical Meetings Conference, Denver, CO (2008)
- Presented ("The Spectral Analysis of Longitudinal Data with Application to Atmospheric Variables") at the Graduate Student Seminar at the School of Public Health at the University at Albany (2010)

EMPLOYMENT:

George Mason University, Fairfax VA

August 2020 - Present

Term Assistant Professor

- Teach on-campus and online classes. Design class syllabi, deliver lectures, assign, and grade homework, author and grade tests, use online resources such as Blackboard, MyMathLab, and Zoom, and hold weekly office hours. Courses include Calculus I, II

AMY POTRZEBA MACRINA

PAGE 2

EMPLOYMENT:

Syracuse University, Syracuse NY

August 2017 – June 2020

Assistant Teaching Professor / Calculus Sequence Administrator

- Teach on-campus and online classes. Design class syllabi, deliver lectures, assign and grade homework, author and grade tests, use online resources such as Blackboard & WebAssign and hold weekly office hours. Courses include Calculus I, II, III, Business Calculus, MAT521 Introduction to Probability.
- Mentor graduate teaching assistants, new faculty and post-docs.
- Observe teaching assistant Calculus instructors and recitation leaders, complete observation reports and offer feedback.
- Oversee the Calculus sequence administrative tasks, write the course-wide syllabi, author the departmental final exams & coordinate grading groups for them, mentor new faculty, set-up common WebAssign homework assignments, coordinate pooled office hours, created and implemented remediation and refresher worksheets Calculus sequence, review midterm exam drafts, address student and instructor concerns.
- Created a Blackboard Organization: “Calculus Sequence Information” for instructors and recitation leaders for any Calculus course. Work to keep this updated and use as a mode of communication for Calculus instructors as well as a resource for them.
- Developed and taught an online 6-week Calculus I course and a 4-week Calculus I course.
- Collaborate with the Center for Learning and Student Success to support and provide additional resources for Calculus I and II students.
- Observe high school teachers offering Calculus I for college credit through SU’s Project Advance
- Teaching mentor for graduate student in the Future Professoriate Program.

Northern Virginia Community College, Annandale VA

Associate Professor June 2011 – August 2017

Adjunct Professor NOVA Online August 2019 - Present

- Teach on-campus and online courses. Design class syllabi, delivered lectures, assigned and graded homework, authored and graded tests, used online resources such as Canvas, Blackboard, Zoom, WebAssign, MyMathLab, & MyLabsPlus and held weekly office hours for the following classes: Calculus I, Calculus II, Vector Calculus, Discrete Mathematics, Applied Calculus I, PreCalculus, Math for Liberal Arts Majors I & II, Developmental Math.
- Proposed and taught several honors courses including Honors Calculus I, II and Vector Calculus
- Redesigned online math classes including Calculus I, Vector Calculus and Differential Equations
- Course Coordinator for one to two classes each semester
- Active participant on several campus committees
- Co-authored a professional development grant proposal
- Participated on several hiring committees
- Mentor to a new faculty member and teaching fellow.
- Observe adjunct faculty and complete observation forms.
- Faculty advisor to students.
- Team Leader for internal Quality Matters course review
- Subject Matter Expert and Peer Reviewer for external Quality Matters course reviews.

University at Albany, Albany NY August 2005 – May 2011

Lecturer

- Designed class syllabi, delivered lectures, assigned and graded homework, authored and graded tests, used online resources such as WebAssign, MathXL, & CourseCompass and held weekly office hours. Course include: Topics in Contemporary Mathematics, Algebra & Calculus I

AMY POTRZEBA MACRINA

PAGE 3

EMPLOYMENT:

& II, Basic Statistics, Calculus I & II.

Sage College of Albany, Albany NY August 2010 – May 2011

Adjunct Instructor

- Designed class syllabi, delivered lectures, assigned homework, used online tools such as Webassign, CourseCompass & Moodle for homework and course information, authored and graded tests, and held weekly office hours for the following classes: College Algebra, Pre-Calculus, Applied Statistics.

Hudson Valley Community College, Troy, NY August 2010 – May 2011

Adjunct Instructor

- Designed class syllabus, delivered lectures, assigned homework, authored & graded tests & quizzes, and held weekly office hours for the following classes: Applied Technical Math

Notre Dame Bishop Gibbons School, Schenectady, NY September 2009 – August 2010

Mathematics Teacher

- Taught Calculus (University at the High School), Pre-Calculus (University at the High School), & Regents Algebra II / Trigonometry. Created lesson plans & deliver classroom instruction, assigned & graded homework, authored & graded tests.
- Participated in the school community.

Ed & Ed Business Technology, Westmoreland NY June 2000 - Present

Administrative Assistant

- Manage maintenance and meter rental contracts for mailing equipment.
- Audit the monthly commission reports to apply monies to the accounts receivable.

Utica National Insurance Group, Utica, NY May 2003 – August 2003

Actuarial Intern

- Responsible for compiling spreadsheets to organize data.
- Assisted in assembling rate filings.
- Accountable for a pictorial regarding commercial auto coverage

COMPUTER SKILLS: R-SOFTWARE, MS Office (Word, Excel, PowerPoint), LaTeX, MYMATHLAB, WEBASSIGN, BLACKBOARD, CANVAS, ZOOM, MOODLE, MATHXL, EAUTOMATE

ADDITIONAL INFORMATION:

PROFESSIONAL MEMBERSHIPS: Member of American Statistical Association, Member of the National Center for Faculty Development & Diversity

PROFESSIONAL DEVELOPMENT/CERTIFICATIONS:

- Quality Matters: Peer Reviewer Certification (2015)
- Quality Matters: Online Course Facilitator Certification (2015)
- Quality Matters Applying the QM Rubric (2014)
- Northern Virginia Community College – Extended Learning Institute’s Hybrid Training Workshop (2014)

AMY POTRZEBA MACRINA

PAGE 4

REFERENCES:

Susan Sherry	Dr. Igor G. Zurbenko	Elizabeth Highsmith	Tina Mancuso
Northern Virginia Community College	University at Albany	Northern Virginia Community College	Retired from Sage College of Albany
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