

Curriculum Vitae

Michael P. Sterner

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EDUCATION:

- **State University of New York, Albany, NY** Ph.D. in mathematics awarded 1997.
Doctoral dissertation: *Fractional Derivatives and Convolutions of Univalent Functions*.
Additional advanced coursework in several complex variables, Hardy spaces, functional analysis, harmonic analysis, uniform algebras, Cauchy integral transforms, and operator theory. Received 1995-1996 Excellence in Teaching Award.
- **Millersville State University, Millersville, PA** Bachelor of Arts Magna Cum Laude with a double major in mathematics and physics. Physics Honors List, Math Honors List, Math Chairman's List, Dean's List.

WORK EXPERIENCE:

- **Professor of Mathematics, University of Montevallo**
Courses taught: basic mathematics, intermediate algebra, mathematics for elementary school teachers, basic math for teachers, pre-calculus algebra, finite mathematics, trigonometry, calc I, calc II, calc III, discrete mathematics, introduction to programming and computer algebra systems, foundations of mathematics, numerical analysis, mathematical statistics, differential equations, complex analysis, linear algebra, abstract algebra, real analysis, topology, Banach spaces, philosophy of mathematics, philosophy of the cosmos, honors astronomy, and various MEd courses.
- **Graduate Teaching Assistant, SUNY at Albany**
Courses taught: precalculus, calc I, calc II, calc III, intro to statistics
- **Tutor, Back to Basics Tutoring Service, Wilmington, DE**
Tutored high school and college students in math and science courses.
- **Instructor, Academic Advancement Center, Newark, DE**
Group tutored college students in math, taught summer courses
- **Graduate Teaching Assistant, University of Delaware**
Courses taught: precalculus, intermediate algebra, discrete math
- **Computer Science Instructor, Girard College, Philadelphia, PA**
Developed computer instruction facilities, taught computer programming
- **Program Manager, Philadelphia College of Textiles and Science**
Managed Regional Computer Resource Center (for public school teachers)
- **Faculty, Lansdale School of Business, Pottstown, PA**
Courses taught: computer programming, compiled BASIC, psychology of personality
- **Instructor, Lehigh County Community College, Schnecksville, PA**
Courses taught: fundamentals of physics, physics II lab, intermediate algebra, alternate energy technologies
- **Latin Teacher, School District of Philadelphia**
Taught Latin in grades 4, 5, and 6
- **Classical Guitar Instructor, Lancaster Academy of Music**
Performance and private instruction

PROFESSIONAL PUBLICATIONS:

Thomas H. MacGregor and Michael P. Sterner, **Boundedness of an Analytic Function and the Range of its Fractional Derivative**, Annales Universitatis Mariae Curie-Sklodowska, Sectio A, 52(1): 97-106, special geometric function theory edition, Lublin, Poland (1998).

Thomas H. MacGregor and Michael P. Sterner, **Hadamard Products with Power Functions and Multipliers of Hardy Spaces**, Journal of Mathematical Analysis and Applications, 282(1): 163-176 (June 2003).

Adrian A. W. Cartier, Veny Liu, and Michael P. Sterner, **Categorical Approach to G. W. Mackey's Groupoid Axioms and the Groupoid of the Cuntz Graph ε^∞** , The American Journal of Mathematics and Statistics, 1(1): 1-4, (2011) .

Adrian A. W. Cartier and Michael P. Sterner, **An Integral Representation of a Family of Slit Mappings**, Advances in Pure Mathematics, Vol.2, No.3, (May 2012).

Thomas H. MacGregor and Michael P. Sterner, **Limits of Fractional Derivatives and Compositions of Analytic Functions**, Journal of the Australian Mathematical Society, 103(1): 104-115, (2017).

Thomas H. MacGregor and Michael P. Sterner, **Boundary Limits of Fractional Derivatives of Univalent Functions**, Complex Variables and Elliptic Equations, Vol.63, No.11, 1529-1538 (2018).

Thomas H. MacGregor and Michael P. Sterner, **Peaking and Interpolation by Complex Polynomials**, Proceedings of the Edinburgh Mathematical Society, submitted (2019).

UNIVERSITY SERVICE:

Author of the Montevallo Observatory Project, along with Michael Patton, and Director of the James Wylie Shepherd Observatory (JWSO). Construction of the JWSO began in August 2008, and the observatory had its dedication on Founders Day in October 2008. We installed the hydraulic pier, robotic mount, handrails, and telescope in summer of 2009, and successfully concluded negotiations with Alabama Power to bring electricity to the site in October 2009, completing Phase I of the project. The JWSO had its Grand Opening and First Light Celebration in November of 2009, with more than 200 people in attendance. The Grand Opening featured the choral piece *How Sweet the Moonlight*, composed by Dr. Joseph Landers for the JWSO, and performed by UM faculty and students. The event generated a front page story in the Birmingham News, along with \$10,000 in private donations. We have raised a total of more than \$400,000 for the project to date. Phase II includes an open-air amphitheater, a Command Center (completed in 2014), a remote celestial observing deck (completed in 2014), educational exhibits, nature trails, an organic garden (the Condrey Garden was completed and dedicated in 2017), and a control room with Internet connection, permitting synchronized remote control of the telescope and dome from distant locations. The full implementation of the Observatory Project will not only provide a valuable resource for the general public, but will also create bridges between regional universities and students and teachers from middle and high schools across the state, providing a facility for school projects and undergraduate research, and an excellent recruiting tool to attract students to mathematics and the sciences. As well as being a centerpiece for the University of Montevallo, the JWSO is the premier public observatory in the state of Alabama.

I have served on a variety of University committees, including Faculty Senate, the University Writing Committee, the Concert and Lecture Committee, the Library Committee (Chair), the General Education Committee, the Teacher Education Committee, the University Annual Fund Committee, and the Articulation and General Studies Committee.

I have served the department in various capacities as Mathematics Program Coordinator, including principal responsibility for course scheduling, program and curriculum review, assessment, and serving as the faculty advisor for the Astronomy Club, the Math Club, and Kappa Mu Epsilon.

In recognition of my cumulative service to the University of Montevallo, I was presented with the 2013-2014 Faculty Service Award.