

David Lawrence Ritter

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Citizenship: United States of America

Education:

B.S. (Mathematics, 1972) Eckerd College (1968-1972)
St. Petersburg, Florida 33733

Ph.D. (Mathematics, 1981) Louisiana State University (1975-1981)
Baton Rouge, Louisiana 70803

Research Supervisor: O. Carruth McGehee

Title of Dissertation: Some Singular Measures on the Circle
which Improve L^p Spaces

Academic Employment:

Aug., 1975 - Aug., 1981: Graduate Teaching Assistant, L.S.U.:
After the first semester, had complete responsibility for
teaching two classes each regular semester and one class each
summer term. These were lower level: College Algebra,
Trigonometry, Business Calculus, Linear Algebra and Probability
for Business Students.

Aug., 1981 - Aug., 1986: Assistant Professor, Department of
Mathematical Sciences, Florida International University.

Aug., 1986-present: Associate Professor of Mathematics,
F.I.U.

Professional Organizations:

American Mathematical Society
Mathematical Association of America

Professional Service:

Referee,
Proceedings of the American Mathematical Society,
1986-1987, 1995
Illinois Journal of Mathematics, 1992-1993

Honorary Societies:

Pi Mu Epsilon (Eckerd College)
Phi Kappa Phi (Louisiana State University)

Publications:

1. "Some Singular Measures on the Circle Which Improve L^p Spaces", Colloquium Mathematicum, Vol. LII (1987), pp. 133- 144.
2. "A Convolution Theorem for Probability Measures on Finite Groups", Illinois Journal of Mathematics, Vol. 28 (1984), pp. 472-479.
3. "Convolution Inequalities on Finite Cyclic Groups and the Pseudomeasure Norm", Proceedings of the American Mathematical Society, Vol. 91 (1984), pp. 589-592.
4. "Most Riesz Product Measures Are L^p -Improving", Proceedings of the American Mathematical Society, Vol. 97 (1986), pp. 291-295.
5. With Colin C. Graham and Kathryn E. Hare:
"The Size of L^p -Improving Measures", Journal of Functional Analysis, Vol. 84 (1989), pp. 472-495.

Current Research Interests:

Problems related to questions of convolution operators on various locally compact abelian groups, the Lusin rearrangement problem on compact torsion groups, extensions of the Littlewood Inequality to finite cyclic groups particularly regarding the growth of the norms of idempotents in the group measure algebra. Here the groups of interest are $\mathbb{Z}/2^n\mathbb{Z}$ for $n \geq 1$.

Courses Taught at F.I.U.:

MAA 1114 Trigonometry
MAA 3200 Introduction to Analysis (Now with a different name.)
MAA 4211 Advanced Calculus
MAA 4403 Complex Variables
MAA 5616 Introduction to Real Analysis
MAC 2132 Pre-Calculus Mathematics
MAC 2311 Calculus I
MAC 2312 Calculus II
MAC 2313 Multi-Variable Calculus
MAD 2104 Discrete Mathematics
MAD 3305 Graph Theory
MAP 2302 Differential Equations
MAP 4401 Advanced Differential Equations
MAS 3105 Linear Algebra
MAS 4301 Algebraic Structures
MAT 4905 Independent Study
MGF 1202 Finite Mathematics

Service at F.I.U.:

- 1981-1983: Construction of the mathematics exams for use by the School of Technology in testing Mariel refugees for admission to their Engineering programs. Review of approval books in the library.
- 1982-1985: Department Representative to the Arts and Sciences Library Committee.
- 1982-1987;
1995-2001: Member of the Pre-medical Advisement and Evaluation Committee in the College of Arts and Sciences.
- 1987-1988: Member, Departmental Ad Hoc Committee studying the issue of screening students for Pre-Calculus.
- 1987-1993: Chairperson, Pre-medical Advisement and Evaluation Committee in the College of Arts and Sciences.
- 1992-1993: Faculty Senator
- 1994-1995: Member, Departmental Ad Hoc Committee on Introductory Mathematics.
- Spring, 1997: Member, Pre-Med Evaluation Process Committee, an ad hoc committee constituted by the Dean of the College of Arts and Sciences to consider the functioning of the Pre-Medical Advisement and Evaluation Committee of the College of Art and Sciences.
- 1997 - 2000: Member, Math Department Scheduling and Curriculum Committee
- Spring, 1998: Member, Mathematics Department Chairman's Ad Hoc Committee on Analysis
- Spring, 2000: Member, Mathematics Department Chairman's Ad Hoc Committee on the Revision of the Curriculum for the Mathematics and Math Sciences Undergraduate Major
- 2005-2006: Co-author (with Laura Di Carli) of the initial Academic Learning Compacts in Mathematics and Mathematical Sciences and a position paper concerning issues related to their administration.
- 1986-present: Coordinator for Calculus I and Introduction to Analysis/Introduction to Advanced Mathematics