Damon Scott

Through Cyberspace

DScott at FMarion
and then dot edu
(Slightly encrypted so as not to be machine readable from the Web)

By Post

Department of Mathematics
Francis Marion University
Florence, South Carolina 29502

Over the Phone

Work: 843-661-1586

Education

Mathematics

Doctor of Philosophy in Mathematics
Duke University. 1986.
Dissertation Title: *A Non-Integral Dimensional Random Walk.*
Advisor: Gregory F. Lawler.
Current Interest: Mathematical Logic.

Master of Arts in Mathematics
Duke University. 1982.

Music

Master of Arts in Music Theory
Eastman School of Music. 1999.

General

Bachelor of Science *cum Laude*
Butler University, Indianapolis. 1980.
Major: Mathematics
Grade-Point Average: 3.81.

Experience

Full-Time Academic Positions

Assistant, then Associate, then Full Professor of Mathematics
Francis Marion University.
Fall 2001 to present.

Visiting Asst. Professor of Mathematics
Wabash College.
Academic Year starting Fall 2000.

Assistant Professor of Mathematics
Belmont Abbey College
Anchored the mathematics major.

Assistant Professor of Mathematics
Pembroke State University.
Academic Year starting Fall 1990.

Assistant Professor of Mathematics
Pacific Lutheran University.
A.Y.'s starting Fall 1986, '87, '88, 89.

Musical Detour

Graduate Student in Music Theory
Eastman School of Music.
A.Y.'s starting Fall 1996, '97, '98, '99.
Sproull Fellow. Taught Freshman Harmony.
Ran the Computer Lab.

Full-Time Industrial Internships

Research Associate
Alternative Energy Corporation.
Summer and Fall of 1984.
Computed energy savings.

Engineer's Assistant
Indiana State Dept. of Bridge Design.
Summer, 1980.
Prepared hydrological reports.

Graduate Student Teaching

Instructor of Mathematics
Duke University.
A.Y.'s starting Fall 1981, 82, 83, 84, 85.

Monographs
(Sole Author)

Well-Structured Mathematical Logic
Carolina Academic Press. QA9.S4175 2012. ISBN 978-1-61163-368-9.
January 2013.

Peer-Reviewed Publications
(Principal or Sole Author)

Clearing the Fog from the Undergraduate Course in Linear Algebra
Problems, Resources, and Issues in Mathematics Undergraduate Education 27/3:237–255.
July-Sept 2007.

The Immigration Law of 1990 and Its Effects
Notices of the American Mathematical Society, 46/7:767 – 69. August 1999.

The Interval Angle: A Similarity Measure for Pitch-Class Sets
With Eric J. Isaacson. *Perspectives of New Music*, 36/2:107–42. Summer 1998.

A Non-Integral Dimensional Random Walk
Journal of Theoretical Probability, 3/1:1–7. January 1990.

Invited Papers
(Competitively Juried)

The Nature of Montonicity in Higher-Order Context-Oriented Mathematical Logic
Special Session on Automated Reasoning in Mathematics and Logic.
A.M.S. Regional Meeting. Georgia Tech. March 2002.

Expanding the Paradigms: New Forms for Breaking Out of Strictly Nested Structures
Alternatives to Chomsky Conference.
Rutgers University. September 2000.

The Interval Angle: A Similarity Measure for Pitch-Class Sets
New York State Society for Music Theory.
Eastman School of Music, Spring 1997.

Floodplains for State Parks
Seventh Biennial Linear Parks Conference.
Near Asheville, North Carolina. September, 1996.

On Writing across the Curriculum
Writers' Workshop Conference at Pacific Lutheran University.
Pacific Lutheran University. September, 1989.

A Mathematician's View of the Field of Possible Core Curricula
Perspectives on the Core Curriculum at Pacific Lutheran University.
Pacific Lutheran University. March, 1988.

Conference and Seminar Presentations
(Not Competitively Juried)

Newly Structured Programming
M.A.A. Regional Conference. Winthrop University. Spring, 2013.

The Structure of Mathematics as a Self-Similar Syntactic Fractal
M.A.A. Regional Conference. Elon University. Spring, 2010.

Analysis and Synthesis: Reviving the Ancient Technique of Mathematical Discovery
M.A.A. Regional Conference. Belmont University. Spring, 2009.

The Qualified Quantifier: A Very Handy Logical Gadget
M.A.A. Regional Conference. The Citadel. Spring, 2008.

A Coherent and Ramifiable Set of "How to Prove It" Rules
M.A.A. Regional Conference. Georgia Southern University. Spring, 2007.

Clearing the Fog from the Undergraduate Course in Linear Algebra
M.A.A. Regional Conference. Auburn University. Spring, 2006.

The Ecliptic Calendar and Celestial Mechanics You Can See with the Naked Eye
Francis Marion University Science Colloquium. Fall, 2005.

Euclid as Style Setter: A Method of Proof Composition
Especially Suited to Students in the Mathematics Major
M.A.A. Regional Conference. Meredith College. Spring, 2005.

Implementing Miniature Conferences
in the Now-Standard Bridge to Higher Mathematics Course
With Thomas Fitzkee. Joint A.M.S./M.A.A. National Conference. Atlanta. Spring, 2005.

A New Formalization of Proof using Context-Oriented Mathematical Logic
M.A.A. Regional Conference. Austin Peay State University. Spring, 2004.

Crash Course in Context-Oriented Mathematical Logic
M.A.A. Regional Conference. Clemson University. Spring, 2003.

Sonority Preserving Transformations
Francis Marion University Science Colloquium. Spring, 2002.

More Results in Qualified Syntax
Regional Conference of the M.A.A. Spring, 1994.

Qualified Syntax: A New Mathematical Grammar
Regional Conference of the M.A.A. Spring, 1994.

More and More Grandiose Schemes to Approximate Definite Integrals
Pacific Lutheran University. Fall, 1994.

Gödel's Theorem: Three Lectures on its Statement and Proof
Pacific Lutheran University. Fall, 1988.
Belmont Abbey College. Fall, 1992.

Principles of Construction in Islamic Patterns
Pacific Lutheran University. Fall, 1987.
Belmont Abbey College. Fall, 1991.

Other Writings of Note

Finding the Right Ballpark: On the Case *Lozano versus Hazelton*
As Decided in Its Court of Original Jurisdiction
Amicus curiae brief to the U.S. Court of Appeals for the Third Circuit.
Docket Number 07–3531. Motion to proceed accepted by the Court. December, 2007.

Special Service to the Mathematics Department

Supervisor of the Pee-Dee Regional High-School Mathematics Tournament
Francis Marion University. Spring 2003 to the present.

Department Webmaster
Francis Marion University. Fall 2001 to the present.

Establishment and Maintenance of a Chapter of Kappa Mu Epsilon on Campus
Francis Marion University. Spring 2005 and continuing.

Assessment Data Coordinator for Lecture Sections of Math 111.
Francis Marion University. Approximately Fall 2005 to present.

Complete Remaking of the Course "Transition to Higher Mathematics"
Jointly with Dr. Fitzkee. Francis Marion University. Fall 2002.

Overhaul of the Freshman-Level Courses in Mathematics
Principal architect and representative of the proposal to the College at large.
Belmont Abbey College. Ratified, Spring 1993.
Departmental Award for these efforts, October, 1993.

Remaking the Senior Seminar in Mathematics
Completely changed the institution of the Senior Seminar.
Belmont Abbey College, Fall 1991.

Actuarial Examinations

First Actuarial Examination (#100)
10 out of 10. November, 1991.

Second Actuarial Examination (#110)
10 out of 10. May, 1992.

Committee Work

Academic Support Committee
A.Y. 2004, 05 and 06. Chair A.Y. 04 and 06.

Goldwater Fellowship Representative
Academic Year starting Fall 2003 to present.

Virginia Tech Competition Supervisor
A.Y. 2004 to 2008.

Faculty Athletic Representative
A.Y. 1994, 1995.

Library Committee
A.Y. 1992, 1993

Academic Computing Committee
A.Y. 1992, 1993

Retention Task Force
A.Y. 1991, 1992.

Putnam Supervisor
A.Y. 1993, 1994, 2000

Artistic Endeavors

Various Works of Music
Inventions, songs, fugues, and a madrigal.

‘‘Six Cubes’’
A very unusual artwork produced as a lithograph.

Special Features

Team Player in Campus Politics
Has defended mathematics in core battles.
Generally gets along well with the Humanities.

Special Competence in Web Design
Can write websites that convey a professional style and sensibility.

Unusually Thorough Knowledge of Music
Can serve on juries and committees.
Can teach Harmony, Counterpoint, Music History and other courses.

Fair Knowledge of Latin
Substitute-taught for the Latin teacher whenever she was ill or away.

Works Well with Computers
Knows several programming languages and pieces of applications software.