

Marcel B. Finan, Ph.D
Professor of Mathematics
Department of Mathematics
Arkansas Tech University
Office: 964-0864
E-mail: mfinan@atu.edu
URL: <http://faculty.atu.edu/mfinan>

Education

- Ph.D. Mathematics, University of North Texas, Denton, Texas. Aug. 1998.
- M.S. Applied Mathematics, University of Tennessee , Knoxville, Aug. 1992.
- M.S. Mathematics, American University of Beirut, Beirut, Lebanon, Dec. 1987
- B.S. Mathematics, Haigazian University, Beirut , Lebanon, Aug. 1984.

Work History

- Arkansas Tech University, Professor 2013 - current.
- Arkansas Tech University, Associate Professor, 2007 - 2012.
- Arkansas Tech University, Assistant Professor, 2001 - 2006.
- University of Texas at Austin, Visiting Scholar, 1999 - 2001.
- University of Texas at San Antonio, Visiting Assistant Professor, 1998 - 1999
- University of North Texas, Teaching Fellow, 1992 - 1998
- University of Tennessee at Knoxville, Teaching Fellow, 1988 - 1992

Current Research Interest

Financial Mathematics and Actuarial Science.

Publications

Part I. Graduate Open Source Texts in Financial Mathematics

- M. B. Finan, “*An Introductory Guide in the Construction of Actuarial Models*”, 814 pp., Arkansas Tech University, July 2013.
- M. B. Finan, “*A Reading in the Theory of Life Contingency Models: A preparation for Exam MLC/3L*”, 875 pp., Arkansas Tech University, July 2011.
- M. B. Finan, “*A Discussion of Financial Economics in Actuarial Models: A Preparation for the Actuarial Exam MFE/3F*”, 650 pp., Arkansas Tech University, May 2010.

Part II. Undergraduate Open Source Texts in Financial Mathematics

- M. B. Finan, “*A Basic Course in the Theory of Interest and Derivatives Markets: A preparation for Exam FM/2*”, 673 pp., Arkansas Tech University, March 2009.
- M. B. Finan, “*A Probability Course for the Actuaries: A preparation for Exam P/1*”, 517 pp., Arkansas Tech University, June 2007.

Part III. Undergraduate Open Source Texts in Mathematics:

- M. B. Finan, “*College Algebra for STEM*”, 367 pp., Arkansas Tech University, May 2015.
- M. B. Finan, “*A Semester Course in Finite Mathematics for Business and Economics*”, 277 pp., Arkansas Tech University, August 2012.
- M. B. Finan, “*Introductory Notes in Ordinary Differential Equations for Physical Sciences and Engineering*”,

300 pp., Arkansas Tech University, May 2011.

- M. B. Finan, “*The Basics of Linear Algebra*”, 311 pp., Arkansas Tech University, December 2011.
- M. B. Finan, “*A First Course in Quasi-Linear Partial Differential Equations for Physical Sciences and Engineering*”, 295 pp., Arkansas Tech University, August 2009.
- M. B. Finan, “*An Introductory Single Variable Real Analysis: A Learning Approach through Problem Solving*”, 157 pp., Arkansas Tech University, May 2009.
- M. B. Finan, “*A Second Course in Elementary Differential Equations*”, 281 pp., Arkansas Tech University, June 2006.
- M.B. Finan, “*A Second Course in Mathematics Concepts for Elementary School Teachers: Theory, Problems, and Solutions*”, 468 pp., Arkansas Tech University, August, 2005.
- M.B. Finan, “*A First Course in Mathematics Concepts for Elementary School Teachers: Theory, Problems, and Solutions*”, 452 pp., Arkansas Tech University, May, 2005.
- M.B. Finan, “*A Basic Course in Abstract Algebra*”, 224 pp., Arkansas Tech University, December, 2003.
- M.B. Finan, “*Introductory Notes in Discrete Mathematics*”, 224 pp., University of Texas at Austin, May 2001.
- M. B. Finan, “*Fundamentals of Linear Algebra*”, 196 pp., University of Texas at Austin, Aug. 2000.

Part IV. Research Articles:

- A. Castro and M. B. Finan, “*Existence of Many Positive Nonradial Solutions for a superlinear Dirichlet Problem on Thin Annuli*”, *Nonlinear Differential Equations, Electron. J. Diff. Eqns*, Conference 05, 2000, pp. 21 - 31.
- A. Castro and M. B. Finan, “*Existence of Many Sign-Changing Nonradial Solutions for Semilinear Elliptic Problems in Thin Annuli*”, *Topological Methods in Nonlinear Analysis*, Vol. 13, No. 2 (1999), pp. 273 - 9.

Professional Presentations

- Marcel B. Finan, “*Incorporating YouTube Videos into Your Teaching*”, MAA OK-AR, University of Tulsa, Tulsa, Oklahoma, April 2015.
- Marcel B. Finan, “*The Actuarial Science Discipline: A Career Option for Math/Stat/Business Majors*”, MAA OK-AR, Oklahoma State University, Stillwater, Oklahoma, April 2013.
- Marcel B. Finan, “*Class Room Observations in the teaching of Differential Equations*”, MAA OK-AR meeting, University of Arkansas, Fayetteville, March 2006.
- Marcel B. Finan, “*A Suggested Approach in the Teaching of Reform Mathematics*”, MAA OK-AR meeting, University of Tulsa, Oklahoma, March 2003.
- Marcel B. Finan, “*Existence of many sign-changing non-radial solutions for a superlinear Dirichlet problem on thin annuli*”, Texas Partial Differential Equations Seminar, Texas State University, San Marcos, April 2000.
- Marcel B. Finan, “*Existence of many positive non-radial solutions for a superlinear Dirichlet problem on thin annuli*”, Fourth Mississippi State Conference on Differential Equations and Computational Simulations, Mississippi State University, Starkville, May 1999.

Professional Activities

- Rater for the “Measures of Effectiveness in Teaching” (MET) project, Mathematical Quality of Instructions In-

strument, 2011.

- Organizer of a Mathematics Summer Camp for Elementary School Students, St John Catholic School, Summer 2011.
- Book Reviewer of “*Single and Multi-Variables Calculus*, 6th Edition, Hughes-Hallett et al., Wiley (2010).
- Book Reviewer of *Differential Equations: An introduction to Modern Methods and Applications*, by Brannan/Boyce, Wiley Publications (2007).
- Book Reviewer of *Single Variable Calculus*, Second Edition, by Ostebee/Zorn, Houghton Mifflin Publishing Company (2004).
- Book Reviewer of *Functions and Change: A Modeling Approach to College Algebra*, Second Edition, by Crauder/Evans/Noel, Houghton Mifflin Publishing Company (2004).
- Book Reviewer of *Advanced Calculus*, by W.A. Kosmala, Prentice Hall Publishing Company (2003).
- Referee for the Electronic Journal of Differential Equations (1998 - 2000).

Grants and Awards

- Faculty Research Grant, Arkansas Tech University, Russellville AR (2007).
- Faculty Research Grant, Arkansas Tech University, Russellville AR (2008).
- Sabbatical, Arkansas Tech University, Russellville AR (Spring 2011).
- Professional Development Grant, Arkansas Tech University, Russellville AR (2011).
- Sabbatical, Arkansas Tech University, Russellville AR (Spring 2013).
- Professional Development Grant, Arkansas Tech University, Russellville AR (Spring 2013).
- Professional Development Grant, Arkansas Tech University, Russellville AR (Spring 2015).
- Sabbatical, Arkansas Tech University, Russellville AR (Spring 2020).