

BERNARD L. DILLARD

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EDUCATION

University of Maryland

M.Sc., Applied Mathematics & Scientific Computation, Concentration in Statistics
Research: Wavelet-Based Statistical Monitoring Methods for Biosurveillance
(All Ph.D. Coursework Completed)

Emory University

M.A.T., Educational Studies, Concentration in Middle Grades Education

Morehouse College

B.A., English, Departmental Honors, Magna cum laude

TEACHING EXPERIENCE

Associate Professor of Mathematics, Fashion Institute of Technology (FIT), State University of New York (SUNY), 2014 – Present.

Courses: Data Analysis for Business Applications, Statistical Analysis, Developmental Mathematics II and Developmental Mathematics for Fashion Merchandising Management (The Emporium)

Assistant Professor of Mathematics, FIT, SUNY, 2010 – 2014.

Courses: Data Analysis for Business Applications, Statistical Analysis, Precalculus, The Mathematics of Personal Finance (Honors), Mathematical Ideas, Math Modeling for Business Applications, Algebra Review, Developmental Mathematics for Fashion Merchandising Management

Instructor of Mathematics, FIT, SUNY, 2007 – 2010.

Courses: Data Analysis for Business Applications, Quantitative Methods, Statistical Analysis, Mathematical Ideas, Math Modeling for Business Applications, College Mathematics for Business and Technology, Developmental Mathematics I and II, Developmental Mathematics for Fashion Merchandising Management

Adjunct Instructor of Mathematics, FIT, SUNY, Fall 2006.

Courses: College Mathematics for Business and Technology, Developmental Mathematics II

Graduate Teaching Assistant, SPIRAL Program, University of Maryland, 2004.

Courses: Set Theory, Probability

Graduate Teaching Assistant, Department of Mathematics, University of Maryland, 2001.

Course: Calculus I

Tutor and Assistant to the Professor, Prefreshman Summer Program, Department of Physics, Morehouse College, 1994 – 2000.

Course: Calculus I

Sixth-Grade Teacher, Renfroe Middle School, Decatur, GA, 1995 – 1997.

Courses: Mathematics, Language Arts, Social Studies

PROFESSIONAL AND RESEARCH EXPERIENCE

Graduate Student Summer Associate, The RAND Corporation, Science and Technology Department, Arlington, VA, 2005.

Research: Using Statistical Clustering to Minimize the Threat of Improvised Explosive Devices (IEDs) in Iraq

Graduate Research Summer Intern, AT&T Shannon Laboratory, Algorithms and Optimization Department, Florham Park, NJ, 2001.

Research: The Cutting Stock Approach to Bin Packing

Precollege Program Coordinator, Morehouse College, Center of Excellence, Department of Physics, Atlanta, GA, 1997 – 2000.

PUBLICATIONS

Books

Lemonade: Inspired by Actual Events, memoir, winner of Gold Medal, Dan Poynter's Global Ebook Awards, New York, NY: BerNerd Publishing, 2012.

Elementary Statistics, 3rd edition with Henry Gibson, Dubuque, IA: Kendall Hunt Publishing Company, 2012.

Refereed Articles and Proceedings

"Hey, Who Turned Out the Lights?" *CHANCE Magazine* 23.2 (2010): 28-37. Print.

"Wavelet-Based Monitoring for Disease Outbreaks and Bioterrorism: Methods and Challenges" with Galit Shmuéli. *InterStat* 3 (1995): n. pag. Web. 14 Mar. 2010.

"The Cutting-Stock Approach to Bin Packing: Theory and Experiments" with David Applegate, Luciana Buriol, David Johnson, and Peter Shor. Proceedings from *ALLENEX '03: The Fifth Workshop on Algorithm Engineering and Experiments*. Ladner, R.E. (Ed.). (2003). Baltimore, MD: SIAM, 1–15.

Works In Progress

Elementary Statistics, 4th edition, textbook.

Moneymatics: Where Money and Mathematics Meet, textbook.

"The Chi-Square Oops: What's In a Name?," scholarly article.

PRESENTATIONS

National/Regional

"Eagle Soaring and Tornado Spinning," Keynote Speaker, AVID Program, Carrboro High School, Carrboro, NC, April 2011.

"Using Statistical Clustering to Minimize the Threat of Improvised Explosive Devices in Iraq," Summer Culminating Talk, The RAND Corporation, Arlington, VA, August 20, 2005.

"Wavelets at War: Proactive Measures in Fighting Domestic Terrorism," Joint Statistical Meetings, Section on Statistics in Defense and National Security, Minneapolis, MN, August 7-11, 2005.

"Wavelet-Based Monitoring Methods for the Rapid Detection of Bioterrorist Attacks," Tenth Biennial CDC and ATSDR Symposium on Statistical Methods, Bethesda, MD, March 2005.

"From Boyz to Men," Keynote Speaker, High School Male Mentoring Program, Hillside High School, Durham, NC, January 2005.

"Detecting Bioterrorist Attacks by Monitoring Non-Traditional Data Streams Using Wavelets," Tenth U.S. Army Conference on Applied Statistics, Georgia Institute of Technology, Atlanta, GA, October 2004.

"Seizing Your Dream," Keynote Speaker, Middle School Mentoring Program, Neal Middle School, Durham, NC, 2003.

"Succeeding in Math in Graduate School," Graduate Student Panelist, SPIRAL Program, University of Maryland, College Park, MD, 2003.

"Generalized Additive Models," Research Interaction Team Seminar on Statistical Learning, Data Mining, and Inference, University of Maryland, College Park, MD, April 2003.

"The Cutting Stock Problem," Hawaii International Conference on Statistics, Honolulu, HI, June 2002.

"Graduate Student Perspectives for Graduate School Success in Math," Graduate Student Panelist, MathFest XII, National Association of Mathematics, Southern University, New Orleans, LA, 2002.

"The Cutting Stock Problem," Summer Culminating Talk, AT&T Shannon Labs, Florham Park, NJ, August 2001.

"Function Approximation: The Power of the Wavelet," Center of Excellence & E²M Scholars Lecture Series, Morehouse College, Atlanta, GA, April 2000.

In-House

"Time Management," Student/Faculty Roundtable Luncheon, Center for Excellence in Teaching (CET), Fashion Institute of Technology (FIT), April 3, 2014.

"Personal Goal-Setting and Confidence-Building," Panelist, Black Retail Action Group, FIT, February 27, 2014.

"It's Your First Day of Class: Making Your Syllabus Work for You," Faculty Mentorship Workshop, CET, FIT, August 23, 2013.

"Interested in Being Published?," with Praveen Chaudry, Jennifer Miller, and Bill Mooney, CET, FIT, March 22, 2012.

"Advisement, Grading, and Homework," Student/Faculty Roundtable Luncheon, CET, FIT, November 16, 2010.

HONORS AND AWARDS

Awarded Semester Sabbatical Leave, Spring 2015.

Featured Author for Lemonade: Inspired by Actual Events, Check it Out Section in NYSUT United, Vol. 4, No. 4, February 2014.

Featured Author for Lemonade: Inspired by Actual Events, Alumni Ink Section in EMORY Magazine, Vol. 89, No. 3, August 2013.

Winner of Gold Medal for Lemonade: Inspired by Actual Events, Dan Poynter's Global Ebook Awards, Autobiography/Memoir Division, 2013.

Graduate Fellowship, Leopold Schepp Foundation, 2001 – 2005.

Graduate Fellowship, Gates Millennium Scholarship Program, 2000 – 2005.

Scholarship Recipient, Hubertus W.V. Willems Scholarship for Male Students, 2001 – 2004.

Predocctoral Fellowship, Southern Regional Education Board, 2000 – 2003.

Graduate Fellowship, AT&T Cooperative Research Fellowship Program, 2001.

Valedictorian, Hillside High School, Durham, NC.

INTERVIEWS AND RELATED MEDIA

(all footage at: www.GotLemons.net)

Special Guest, A Chat with the Author, Skype Meeting with Makeda Book Club (Durham, NC), Reactions to Lemonade: Inspired by Actual Events, November 2013, 1 hr 17 mins.

Special Guest, AJS Ministries (Chicago, IL), Blog Talk Radio Show, Thematic Discussions in Lemonade: Inspired by Actual Events, July 31, 2013, 1 hr 30 mins.

Special Guest, Creative Colorful People (Durham, NC), Radio Show Podcast, A Brief Discussion of Lemonade: Inspired by Actual Events, March 28, 2013, 17 mins.

Book Signing, Lemonade: Inspired by Actual Events, Hillside High School, Durham, NC, January 2013, 17 mins (abridged).

SERVICE TO FIT

Faculty Senate Continuing and Professional Studies Committee, 2014 – Present.

Faculty Excellence Awards Selection Committee, 2013 – Present.

Diversity Council (Research Subcommittee), 2012 – Present.

Course Coordinator, MA 213: Quantitative Methods, 2010 – Present.

Course Co-Coordinator, MA 311: Math Modeling for Business Applications, 2010 – Present.

Course Coordinator, MA 321: Data Analysis for Business Applications, 2010 – Present.

Chair, Mathematics Search Committee, 2013 – 2014.
Faculty Senate Committee to Evaluate Administrative Personnel, 2012 – 2013.
Lead in Revamping Departmental Peer-to-Peer Observation Form, 2013.
Departmental Tenure and Promotions Committee, 2010 – 2013.
Contributor, FIT's Civility Week, April 2013.
Video Talent for Online Learning Promotion, SUNY Completion Video, October 3, 2013.
Faculty Senate Counseling Committee, 2011 – 2012.
Contributor, Academic Skills Center Assessment, March 27, 2012.
Faculty Senate Admissions and Registration Committee, 2010 – 2011.
Author, MA 392: The Mathematics of Personal Finance, 2011.
Advisor, Asian Concentration, 2010 – 2011.
Departmental Recording Secretary, 2010 – 2011.
Contributor, Writing Studio Administrative Review, April 27, 2011.
Video Talent for Student Recruitment, FIT Online Learning Video Production, 2011.
Co-Author, MA 321: Data Analysis for Business Applications, 2010.

PROFESSIONAL AFFILIATIONS

New York State Mathematics Association of Two-Year Colleges.

OTHER

Actor and Model, 2001 – Present.

REFERENCES

Galit Shmuéli, SRITNE Chaired Professor of Data Analytics and Associate Professor of Statistics & Information Systems, Indian School of Business.
{galit.shmuelli@gmail.com}

Calvin Williamson, Chair, Science and Mathematics Department, Fashion Institute of Technology (FIT).
(212) 217-3020, {calvin_williamson@fitnyc.edu}

Scott Stoddart, Dean, School of Liberal Arts, FIT.
(212) 217-4324, {scott_stoddart@fitnyc.edu}

David S. Johnson, Visiting Professor, Computer Science Department, Columbia University
(212) 939-7053, {dstiflerj@gmail.com}

Robert M. Dixon, Interim Vice-President for Academic Affairs, The University of Maine at Fort Kent.
(207) 834-7510, {robert.dixon@maine.edu}

Liza Hickman, Founder and Pastor, Life Enrichment Ministries.
(404) 367-9343, {info@lifeenrichmentministries.com}

Recommendation letters and transcripts available upon request.