

Michael J. Bradley

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Department of Data Science and Analytics
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Education

- Ph.D. in Mathematics, University of Notre Dame, Notre Dame, IN, 1983
- M.A. in Mathematics, University of Notre Dame, Notre Dame, IN, 1980
- B.A. in Mathematics, Merrimack College, North Andover, MA, 1978
- Graduate computer science courses (4), University of Massachusetts-Lowell, 1984 to 1986
- Graduate data science course (1), Merrimack College, 2019

Faculty Appointments at Merrimack College

Full Professor, 2001 to present
Associate Professor, 1988 to 2001
Assistant Professor, 1983 to 1988

Teaching

- Department of Data Science and Analytics, Merrimack College, North Andover, MA, 2020 to present
Department Chair, 2020-present
- Department of Mathematics, Merrimack College, North Andover, MA, 1983 to 2019
Department Co-chair, 2015-2019
Department Chair, 1989-1993, 2006-2009
Taught 30 undergraduate courses in mathematics and computer science, including basic statistics, basic statistics with fantasy football, calculus-based probability and statistics I and II, calculus I-II-III, differential equations, linear algebra, abstract algebra, real analysis, discrete mathematics, combinatorics and graph theory, game theory, number theory, computer programming, data structures, analysis of algorithms, and several directed studies.
- Department of Mathematics, University of Massachusetts-Lowell, Lowell, MA, adjunct lecturer for graduate math course in algebraic structures and undergraduate course in calculus, 1986, 1998
- Northern Essex Community College, Haverhill, MA, adjunct lecturer for undergraduate courses in algebra, 1999 to 2000, and 2010 to 2014
- Accept the Challenge (ATC), math instructor for five-week summer program for bilingual high school students from Lawrence, 1988 to 2011
- Resources to Accelerate the Integration of Science Education (RAISE), math instructor for one-week summer program for elementary school students and teachers from Lawrence, 1992 to 2002

- Summer Program for English Language Learners (SPELL), math instructor for six-week summer program for bilingual junior-high school students from Lawrence, 2001, 2002

Publications

Books

- Pioneers in Mathematics: The Birth of Mathematics: Ancient Times to 1300, Chelsea House Publishing: New York, 2006
- Pioneers in Mathematics: The Age of Genius 1300-1800, Chelsea House Publishing: New York, 2006
- Pioneers in Mathematics: The Foundations of Mathematics 1800-1900, Chelsea House Publishing: New York, 2006
- Pioneers in Mathematics: Modern Mathematics 1900-1950, Chelsea House Publishing: New York, 2006
- Pioneers in Mathematics: Mathematics Frontiers 1950 to the Present, Chelsea House Publishing: New York, 2006
[Pioneers in Mathematics book set was translated and published in Chinese by Shanghai Scientific Publishers, 2007; in Korean by Ilchulbong Publishers, 2008; and in Japanese by Seidosha Publishers, 2009, listed on Mathematical Association of America's Basic Library List, 2010-2018.]
- Elementary Functions for Calculus, with Frank Eccles, Fourth Edition, 2002
- An Introduction to Discrete Mathematics, Third Edition, McGraw-Hill, Dubuque, IA, 2000
- Calculus for Business, third printing with corrections, McGraw-Hill, Dubuque, IA, 2000
- Testbank to Accompany Calculus With Applications for Business and the Social and Natural Sciences, West Publishing Co., St. Paul, MN, 1993
- Testbank to Accompany Applied Mathematics for Business and the Social and Natural Sciences, West Publishing Co., St. Paul, MN, 1992
- Testbank to Accompany Applied Finite Mathematics for Business and the Social and Natural Sciences, West Publishing Co., St. Paul, MN, 1992
- Testbank to Accompany Applied Calculus for Business and the Social and Natural Sciences, West Publishing Co., St. Paul, MN, 1992

Refereed Articles in Academic Journals

- "Automorphism Groups of Plane Curves", with Harry D'Souza, *Communications in Algebra*, vol. 32, no. 8 (October, 2004), pp. 2885-2894
- "Additivity and Homogeneity", with Michael St. Vincent and David Finn, *The College Mathematics Journal*, vol. 30, no. 2 (March, 1999), pp. 133-135
- "Analyzing Multi-Phase Searching Algorithms", *SIGCSE Bulletin*, vol. 28, no. 3 (September, 1996), pp. 5-8
- "Building Home Plate: Field of Dreams or Reality?", *Mathematics Magazine*, 69 (February, 1996), pp. 44-45 [Article based on this paper titled "Pythagoras Plays Ball" by Ivars Peterson appeared in his internet column *Math Trek* March 25, 1996 and July 12, 2004 and as chapter 5 in his book *Mathematical Treks: From Surreal Numbers to Magic Circles*, The Mathematical Association of America, Washington, DC, 2001.]

- “On the Orders of Automorphism Groups of Complex Projective Hypersurfaces”, with Harry D’Souza, *Geometry of Complex Projective Varieties*, Mediterranean Press, Rende, Italy, 1993

Presentations

National Conferences, Regional Conferences, and Guest Lectures

- “Four Fours Problem”, led workshop for faculty at Arlington Middle School, Lawrence, MA, December 4, 2019
- “Ten Math Problems Inspired by Srinivasa Iyengar Ramanujan”, guest lecture at Gordon College Math Forum, Wenham, MA, November 15, 2018
- “Automorphism and Collineation Groups of Good Curves”, presented by co-author Harry D’Souza, Summer Institute in Algebraic Geometry, July 25 – August 12, 2005, University of Washington, Seattle, WA
- “Bites of Pi”, Fall Meeting of the Northeastern Section of the MAA, November 19-20, 1999, Bradford College, Haverhill, MA
- “Linkages, Applications and Challenges in Teaching Discrete Mathematics”, presented by co-author Thomas Hull, Joint AMS/MAA Mathematics Meetings, January 14, 1999, San Antonio, TX
- “A Modular Approach to Teaching Mathematics”, Spring Meeting of the Northeastern Section of the MAA, June 5-6, 1992, Merrimack College
- “A Modular Approach to Teaching Mathematics”, Annual Meeting of New England Mathematical Association of Two Year Colleges (NEMATYC), March 14, 1992, Middlesex Community College, Lowell, MA

Workshop Presented

- “The People behind the Formulas: Using the Life Stories of Famous Mathematicians to Enhance the Teaching of Mathematics”, Graduate Institute for Teachers, November 16, 2007, Merrimack College

Honors and Awards

- Edward G. Roddy Outstanding Teacher Award, Merrimack College, 2001
- Veracundus Award (for service to the college), Merrimack College, 2011
- Pi Mu Epsilon National Mathematics Honor Society, 2016 to present
- Albert Nelson Marquis Lifetime Achievement Award, 2017
- Marquis Who’s Who in the World, 2007
- Marquis Who’s Who in America, 2006
- American Men and Women of Science, 1997
- Who’s Who Among America’s Teachers, 1996, 2007
- Alpha Sigma Lambda (ΑΣΛ) Continuing Education Honor Society - inducted as honorary faculty member, 1988

Professional Memberships

- Mathematical Association of America (MAA), 1985 to present
- History of Mathematics Special Interest Group of the Mathematical Association of America (HOM-SIGMAA), 2002 to present
- Mathematics and Sports Special Interest Group of the Mathematical Association of America (Sports SIGMAA), 2019 to present

Service to Merrimack College Community (since 2000)

Department of Data Science and Analytics – chair (2020-)

Department of Mathematics – co-chair (2015-19), chair (2006-09), chair of five-year self-study/program evaluation (2014), faculty advisor to Math Team (2006-19), chair of Kearns Award Selection committee (2008-19), search committee for full-time faculty hires (3 times), organized department's 50th year reunion (2009), area committees for departmental tenure candidates (5 times), open houses/accepted student receptions (27 times)

School of Science and Engineering – BS in Data Science committee (2017-19), Steering Committee for Masters Degree Programs in Data Science and Business Analytics (2017-19), Science and Engineering Visioning Committee (2016-17), Faculty/Staff Ambassador for Campaign for Good (2017), Best Practices in Teaching and Learning Committee (2010-12), NSF Grant Proposal Committee for STEP-STEM grants (2009, 2010), Dean Search Committee (2009), Strategic Planning Committee (2008-09), STEM committee (2004-06), Murray Fellowship Selection Committee (2020), EIT/FE review session for civil engineering majors (4 times), area committees for tenure and promotion candidates (14 times)

College Committees – Appointment, Rank and Tenure committee (7 times), Appeals committee (4 times), Honorary Degrees Committee (2016-17), Faculty Advisory Committee on Continuing Education (2011-12), Quantitative Reasoning Committee (2010-12), Presidential Search Committee (2008, 2010), Faculty Advisory Board for Stevens Learning Center (2007-10), College Wide Strategic Planning Committee (2007), AAUP Chapter officer (2002-07), Enrollment Management Strategic Planning Committee (2002-05), Diversity Education Center Advisory Board (2004-05), Faculty Advisory Board of the Center for Augustinian Study and Legacy (2000-01), area committees for tenure and promotion candidates (8 times)

Other Campus Service – advisor/mentor/advocate for tenure-track and non-tenure-track faculty (17 times), guest lectures/presentations on campus (32 times), panelist for AAUP Tenure Forum (4 times), liturgical choir for special events (2014-19), Relay for Life (2013-19), faculty-student intramural soccer team (2010-15), Merrimack College Federal Credit Union Board of Directors (2006-13)