

MATT DAVID LUNSFORD

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EDUCATION:

Tulane University, New Orleans, LA
Doctor of Philosophy (mathematics), May 1993

University of Nebraska, Lincoln, NE
Master of Science (mathematics), May 1989

Louisiana Tech University, Ruston, LA
Bachelor of General Studies, March 1987

EXPERIENCE:

Union University, Jackson, TN
Professor of Mathematics (2004-present)
Associate Professor of Mathematics (1999-2004)
Associate Dean, College of Arts and Sciences (1999-2002)
Assistant Professor of Mathematics (1993-98)

Tulane University, New Orleans, LA
Graduate Teaching Assistant (1991-1992)

University of Nebraska, Lincoln, NE
Graduate Teaching Assistant (1987-1989)

Louisiana Tech University, Ruston, LA
Graduate Teaching Assistant (1987)

PUBLICATIONS:

Galois' Remarkable Subgroups. PRIMUS, to appear 2011.

Galois' Remarkable Subgroups: Using Original Ideas in the Teaching of Abstract Algebra.
Journal of the Union Faculty Forum, Vol. 27 (2007).

Using Galois' Ideas in the Teaching of Abstract Algebra. From Calculus to Computers: Using the Last 200 Years of Mathematical History in the Classroom, MAA Notes Series #68 (2005).

Ideas of Evariste Galois: Recovering Motivation in Abstract Algebra. Journal of the Union Faculty Forum, Vol. 22 (2002).

A Note on Indecomposable Modules over Valuation Domains. Rend. Sem. Mat. Univ. Padova, Vol. 93 (1995).

Indecomposable Modules over Valuation Domains. A dissertation directed by Professor Laszlo Fuchs, Tulane University, (1993).

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PRESENTATIONS:

The Calculation of Galois Group by Classical Methods with the Aid of Mathematica. Department of Mathematics and Computer Science Colloquium Series, 2008.

Improving Senior Seminar Presentations. Department of Mathematics and Computer Science Colloquium Series, 2007.

Substitution Groups and Remarkable Subgroups, MAA Mathfest, 2006.

History of Mathematics Study Tour: Time, Space, and Place. Department of Mathematics and Computer Science Colloquium Series, 2004.

Galois' Remarkable Groups: The Origin of Normal Subgroup. Southeastern Sectional Meeting of the MAA, 2004.

Galois' Remarkable Groups: The Origin of Normal Subgroup. Department of Mathematics and Computer Science Colloquium Series, 2004.

The Contributions of the Islamic Empire to Mathematics and Science. Keynote Address, Tennessee Academy of Science - Western Division, 2003.

The Mathematics of Islam: A Brief Look at the Mathematics of the Arabic Hegemony. Department of Mathematics Colloquium Series, University of Tennessee-Martin, 2002.

Ideas of Evariste Galois: Recovering Motivation in Abstract Algebra. MAA Mathfest, 2002.

Ideas of Evariste Galois: Recovering Motivation in Abstract Algebra. Southeastern Sectional Meeting of the MAA, 2002, Preliminary Report.

Ideas of Evariste Galois: A Brief Look at Classical Galois Theory. Department of Mathematics and Computer Science Colloquium Series, 2001.

Using History in Undergraduate Mathematics Courses. Project NExT-SE workshop, Southeastern Sectional Meeting of the MAA, 2001.

Calculus Before Newton: The works of Fermat and Descartes. Department of Mathematics and Computer Science Colloquium Series, 2000.

Undergraduate Research in a Senior Seminar Course and Activities from Abstract Algebra, Project NExT-SE workshop, Southeastern Sectional Meeting of the MAA, 2000.

An Innovative Capstone Course for Mathematics Majors. Southeastern Sectional Meeting of the MAA, 1999.

Using Permutations and Finite Fields in a Conceptual Approach to Abstract Algebra. Southeastern Sectional Meeting of the MAA, 1998.

The Mathematics of Identification Numbers. Department of Mathematics and Computer Science Colloquium Series, 1997.

Using the History of Mathematics in Undergraduate Courses. Department of Mathematics and Computer Science Colloquium Series, 1996.

Indecomposable Modules over Valuation Domains. AMS Session I on Commutative Algebra, Joint Meetings of the AMS-MAA, 1993.

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ORGANIZATIONS:

Mathematical Association of America (MAA)
Association of Christians in the Mathematical Sciences (ACMS)
Kappa Mu Epsilon (KME)
Council on Undergraduate Research (CUR)

HONORS and AWARDS:

Pew Summer Research Grant, 2009
Undergraduate Research Program Research Grant, 2007
Pew Summer Research Grant, 2006
University Course Development Grant, 2004
International/Intercultural Program Development Grant, 2003
Teagle Course Redesign Grant, 2002
Newell Instructional Innovation Award, 2002
Pew Summer Research Grant, 2001
Who's Who Among America's Teachers, 1998, 2000, 2005
Instructional Innovation Award, 1998 Honorable Mention
Project NExT-SE Fellow, MAA Southeastern Section, 1998-99
Board of Regents Fellowship, Tulane University, 1989-1992
Candy Fellowship, University of Nebraska, 1987-1988
Graduated *Summa Cum Laude*, Louisiana Tech University, 1987

CONFERENCES:

Joint Meetings of the AMS-MAA: Washington, DC 2009
Joint Meetings of the AMS-MAA: New Orleans, LA 2007

- Attended Minicourse: *Evaluating Student Presentations in Mathematics*

Mathematical Association of America Mathfest 2006: Knoxville, TN

- Attended Minicourse: *Teaching a Proof-Based Course as the Gateway to the Math Major*

Association of Christians in the Mathematical Sciences: Huntington, IN 2005
National Conference on Undergraduate Research, Lexington, VA 2005
Joint Meetings of the AMS-MAA: Atlanta, GA 2005

- Attended Minicourse: *Getting Students Involved in Undergraduate Research*

Kappa Mu Epsilon Regional Convention: Jackson, TN 2004
National Conference on Undergraduate Research, Indianapolis, IN 2004
Southeastern Sectional Meeting of the MAA: Clarksville, TN 2004

- Attended Minicourse: *Introduction to Public Key Cryptography*
- Chair of Undergraduate Papers II Session

Association of Christians in the Mathematical Sciences: San Diego, CA 2003
Tennessee Academy of Science - Western Division, Jackson, TN 2003
Kappa Mu Epsilon National Convention: Tulsa, OK 2003
Institutionalizing Undergraduate Research CUR Workshop: Trenton, NJ 2002
Mathematical Association of America Mathfest 2002: Burlington, VT
Kappa Mu Epsilon Regional Convention: Starkville, MS 2002
Southeastern Sectional Meeting of the MAA: Atlanta, GA 2002

- Attended Minicourse: *Cryptology: Mathematics, Craft, and Implementation*

Association of Christians in the Mathematical Sciences: Grand Rapids, MI 2001
Southeastern Sectional Meeting of the MAA: Montgomery, AL 2001

- Co-Organizer of Undergraduate Student Poster Session

Kappa Mu Epsilon Regional Convention: Atchison, KS 2000
Southeastern Sectional Meeting of the MAA: Charlotte, NC 2000
Conference on Algebra, Tulane University, New Orleans, LA 1999

- Chair of Contributed Paper Session

Southeastern Sectional Meeting of the MAA: Memphis, TN 1999

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- Chair of Miscellaneous Contributed Paper Session
 - Attended Project NExT-SE workshop
- Southeastern Sectional Meeting of the MAA: Charleston, SC 1998
- Attended Project NExT-SE workshop
- Kappa Mu Epsilon Regional Convention: Richmond, KY 1998
Southeast Regional Workshop of the CCCU: Jackson, TN 1997
Mathfest of the MAA: Atlanta, GA 1997
- Attended Minicourse: *Music and Mathematics*.
- Southeastern Sectional Meeting of the MAA: Atlanta, GA 1997
- Attended Minicourse: *Finite Fields and their Applications*.
- Joint Meetings of the AMS-MAA: Orlando, FL 1996
- Attended Minicourse: *The historical development of the foundations of mathematics*.
- Southeastern Sectional Meeting of the MAA: Asheville, NC 1995
- Attended Minicourse: *Areas and Volumes from the Greeks to the Moderns*.
- Joint Meetings of the AMS-MAA: San Antonio, TX 1993
- Co-chair of the AMS Session I on Commutative Algebra
- Joint Meetings of the AMS-MAA: Baltimore, MD 1992

INTERESTS:

Commutative Algebra
Classical Galois Theory
History of Mathematics
Undergraduate Research in Mathematics

SERVICE TO THE PROFESSION:

Reviewer of *Technically Speaking* DVD, 2008
Reviewer of *College Algebra: Building Concepts and Connection*, Houghton-Mifflin Publishers, 2005
MAA Department liaison (2003-present)
Reviewer of *Linear Algebra with Applications*, Jones/Bartlett Publishers, 1998
Author of questions for ETS CLEP examination in Trigonometry, 1998
KME Installation Officer of TN Epsilon Chapter, Bethel College, 1998

SERVICE TO THE CHURCH AND THE COMMUNITY:

Member of Northbrook Church, Three Way, TN

- Management Team (2006-2009)
- Children's Leadership Team (2004-2006)
- Royal Ambassadors Co-Leader (2003-2009)
- Personnel Team (1999-2004)
- Ministry Leadership Team (1999-2003)
- Pastoral Search Team (1997-98)
- Strategic Planning and Moving Team (1996-97)

Co-Coach of JCM academic decathlon team in mathematics (1993-1996)
Judge, West Tennessee Regional Science Fair (1994)

SERVICE TO THE UNIVERSITY:

Leadership Activities:

- Faculty Sponsor for TN Gamma Chapter of KME (1998-present)
- Undergraduate Research Program (2002-2007)
- Faculty Development Committee (2002-present, Chair 2005-2009)
- University Tenure Committee (2005)
- Academic Structure and Governance Team (2002-04)
- Academic Council (1999-2002)
- Academic Master Plan Team (1998-2001)
- Council of Chairs (1998-99)

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- BSOL Quality Assurance Team (1998-2000)
- Dean (College of Arts and Sciences) Screening Committee (1997-99)
- Mathematics Discipline Coordinator (1996-99)
- Corresponding Secretary for TN Gamma Chapter of KME (1996-98)
- Department Colloquium Series coordinator (1996-1997, 1999-2000)
- Department Assessment Committee (1994-1999)
- University Graduate Curriculum Committee (1995-1998, Chair 1996-97)
- University Committee on Committees (1996, 1998)
- Institutional Research Task Team (1997- 2002)
- Faculty Mentor Program (1997, 2003, 2005)
- SACS Financial and Physical Resources (1994-95)
- Faculty Forum Computing Services Task Team (1996, Chair)

Student Life:

- Faculty Sponsor for NCUR trip to Lexington, VA (2005)
- Faculty Sponsor for NCUR trip to Indianapolis (2004)
- Faculty Sponsor for KME events (KME Regional Convention, KME banquets, etc.)
- Leader of the S.P.O.T.S. New Orleans mission trip (1996)
- Faculty Chaperon (Student Ministries Fall Retreat, 1995–97)
- Speaker for Preview Day, Chapel, KME, Sigma Zeta, and Power Source

Courses taught:

- Mathematics Seminar
- History of Mathematics
- Introduction to the Theory and Applications of Finite Fields (Graduate)
- Abstract Algebra I, II
- Linear Algebra
- Introduction to Analysis
- College Geometry
- Differential Equations
- Transition Mathematics (Introduction to Abstract Mathematics)
- Calculus I, II, and III
- Precalculus
- College Algebra
- Trigonometry
- Introduction to Probability and Statistics

REFERENCES: (available upon request)