

Mark Douglas Schlatter

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EDUCATION

University of California at Berkeley, 1987–1995
Ph.D. in Mathematics, Fall 1995

Rice University, 1983–1987
B.A. in Mathematics and Mathematical Sciences (double major), *summa cum laude*, 1987

ACADEMIC EMPLOYMENT

Associate Professor, February 2004–present:
Assistant Professor, August 1998–February 2004:
Department of Mathematics, Centenary College

Visiting Assistant Professor, August 1995–May 1998:
Division of Mathematics and Computer Science, Truman State University

HONORS AND AWARDS

Endowed Professorship in the Natural Sciences, 2001–2003: Centenary College of Louisiana

Outstanding Graduate Student Instructor Award, 1991–92: Department of Mathematics, University of California at Berkeley

Phi Beta Kappa

SUMMARY OF RESEARCH

Using ConcepTests in College Algebra, accepted for publication in MAA Notes volume on ConcepTests.

Some Observations and Solutions to Short and Long Global Nim co-authored with Jeffery James, *Integers*, volume 8(1), G1, 2008.

Walter Pitts and “A Logical Calculus” co-authored with Ken Aizawa, *Synthese*, vol. 162, no. 2, May 2008.

How To View A Flatland Painting, *The College Mathematics Journal*, vol. 37, no. 2, March 2006.

How to Create Monolinear Mirror Curves, *Visual Mathematics*, vol. 7, no. 2, 2005.

Permutations in the Sand, *Mathematics Magazine*, vol. 77, no. 2, April 2004.

Writing ConcepTests for a Multivariable Calculus Course, *PRIMUS*, vol. XII, no. 4, December 2002.

Some results on permutation group isomorphism and categoricity, cowritten with Anand Pillay, *Journal of Symbolic Logic*, vol. 67, no. 3, September 2002.

Using Matlab in a Multivariable Calculus Course, published in the Electronic Proceedings of the 1999 International Conference on Technology in Collegiate Mathematics, <http://archives.math.utk.edu/ICTCM/EP-12.html>.

A many permutation group result for unstable theories, *Journal of Symbolic Logic*, vol. 63, no. 2, June 1998.

Extensions of Results of Shelah and Morley to Permutation Groups, Doctoral Dissertation under the supervision of Leo Harrington, University of California, 1995.

TALKS

“How to Run an Undergraduate Research Project with No Experience ”

Louisiana-Mississippi Sectional Meeting of the MAA, Spring 2008.

“How to Evolve Rubrics to Assess the Skills of Math Majors”

Joint Meeting of the American Mathematical Society and Mathematical Association of America, Spring 2006.

“Another Look at McCulloch and Pitts’s “Logical Calculus”

Joint Meeting of the American Mathematical Society and Mathematical Association of America, Spring 2005.

“Discovery or Creation: Mathematical Platonism and the Visual Arts”

Joint Meeting of the American Mathematical Society and Mathematical Association of America, Spring 2004.

“A Dual Purpose Mathematics Lab”

Presented with Katherine Brandl and Derrick Head at the Mathematical Association of America Louisiana/Mississippi Sectional Meeting, Spring 2003.

“How To View A Flatland Painting”

Joint Meeting of the American Mathematical Society and Mathematical Association of America, Spring 2003.

“What If Algebra Did Not Work? A Short History of the Algorithm”

Centenary FYE Colloquium, Spring 2002.

“Sona Sand Drawings and Permutation Groups”

2001 Bridges Conference on Mathematical Connections in Art, Music, and Science, Summer 2001.

“Ethnomathematics: Enriching the Understanding of Patterns, Ratio, and Greatest Common Factor”

Presented with Naomi Coyle at the Annual Meeting of the National Council of Teachers of Mathematics, Spring 2001.

“Concept Tests in Multivariable Calculus: Getting Students to Talk and Think in Class”

Mathematical Association of America Louisiana/Mississippi Sectional Meeting, Spring 2001.

“Sona Drawings and Permutations”

Mathematical Association of America Louisiana/Mississippi Sectional Meeting, Spring 2001.

“Using Matlab in a Multivariable Calculus Course”

1999 International Conference on Technology in Collegiate Mathematics, Fall 1999.

“Debunking the Bible Code”

Centenary Colloquium, Fall 1999 and Spring 2001.

“Extensions of Results of Shelah and Morley to Permutation Groups”

Summer Meeting of the Canadian Mathematical Society, Summer 1997

“Extensions of Results of Shelah and Morley to Permutation Groups”

Midwest Model Theory Conference, Spring 1997

“A Short History of Model Theory”

Truman State Mathematics Colloquium, Spring 1996

“An Introduction to Stability Theory and Permutation Groups”

Bryn Mawr Mathematics Colloquium, Spring 1996.

“How to Rank Football Teams Using the Perron-Frobenius Theorem”

Truman State Mathematics Colloquium, Fall 1996

CURRICULAR WORK

“How to Correctly View a Flatland Painting” at <http://personal.centenary.edu/~mschlat/flatland>.

Collection of ConcepTests for multivariable calculus at <http://personal.centenary.edu/~mschlat/concepttests.pdf>.

Lesson plan for using sona drawings in elementary school mathematics, written with Naomi Coyle.

Laboratory activities for first-year calculus using Texas Instruments CBR's and CBL's.

MATLAB programs for visualizing surfaces, curves, and fields at
<http://personal.centenary.edu/~mschlat/teaching.html>

WORKSHOPS

NSF Chautauqua Workshop: Teaching a Course in Combinatorial Mathematical Games, Summer 2006.

MAA SAUM workshop: Assessing the Undergraduate Program in Mathematics, 2004-2006.

Viewpoints 2001 Workshop, Franklin and Marshall College, Summer 2001.

ACS Teaching and Learning Workshop, Rollins College, Summer 2000.

ACS Information Fluency Workshop, Southwestern University, Fall 1999 and Spring 2001.

Calculus and Technology, ACS workshop run by Doug Child, Rollins College, Summers 1998 and 1999.

'Calculus in a Real and Complex World', MAA Calculus Reform workshop run by Frank Wattenberg, Penn State, Summer 1996.

COLLEGIATE SERVICE

Chair, Department of Mathematics
Centenary College, Fall 2004—present.

Committee service on Academic Policy Committee, Learning Resources Committee, Courseload Parity Study, Branding/Positioning Group, Planning Committee, Enrollment Management Committee, and Economic Policy Committee

Centenary College, Fall 1999—Spring 2009

Chair of Learning Resources Committee, Fall 2000—Spring 2002

Chair of Enrollment Management Committee, Fall 2004—Spring 2005

Chair of Economic Policy Committee, Fall 2007—Spring 2008

Member, Curriculum Development to Promote Information Fluency Task Force
Associated Colleges of the South, Fall 1999—Spring 2002

Member, Liberal Studies Program Committee of the Mathematics Division:

Truman State University, Fall 1995—Spring 1998

Chair of committee, Fall 1996—Spring 1997

Member, Computing Issues Committee of the Mathematics Division:

Truman State University, Fall 1996—Spring 1998

Member, Writing Enhanced Committee of the Liberal Studies Program:

Truman State University, Spring 1997

Faculty Participant, Writing Across the Curriculum:

Truman State University, Fall 1996 and 1997

GRANTS

Board of Regents Support Fund Grant, applied Fall 2008, Centenary College

Co-principal investigator of grant led by Mark Goadrich to provide cluster hardware and software to support the computer science minor and other majors.

"Broadening Technology Access for Calculus and Precalculus", Board of Regents Support Fund Grant, awarded Spring 2007, Centenary College

Co-principal investigator of grant led by Katherine Brandl to provide laptops and Maple to precalculus class.

"Technology Access for Introductory Mathematics Classes", Board of Regents Support Fund Grant, awarded Spring 2004, Centenary College

Co-principal investigator of grant led by Katherine Brandl to provide laptops and Maple to lower level classes such as calculus.

"A Modeling and Computer-Aided Design (CAD) Lab for Computer Science and Engineering", Board of Regents Support Fund Grant, awarded Spring 2003, Centenary College

Co-principal investigator of grant funding a remodeled classroom to support computer science and engineering students.

“*A Computerized Collaboration and Tutoring Environment*”, Board of Regents Support Fund Grant, awarded Spring 2002, Centenary College

Principal investigator of grant funding a classroom for research and presentation by upper-level math majors and enhancement of lower-level tutoring.

“*Enhancing Mathematics Reform Through A Calculus Lab*”, Board of Regents Support Fund Grant, awarded Spring 1998, Centenary College

Principal investigator of grant funding a calculus classroom with data collection and CAS equipment. Wrote five labs for use in our Calculus I class.

“*LAS Calculus: A Proposal*,” Improvement of Instruction Grants, Summer and Fall 1996, Truman State University

Author of two grants preparing an experimental calculus course for humanities majors and supplying the course with graphing calculators.

Missouri Funding for Results, “*Learning Communities: Collaborating for Success*,” , Fall 1996–Spring 1997

Participant in grant to set up a pilot project providing supplemental class sessions focused on collaborative learning.