NAME	**PATRICK S. MITCHELL** 11-01-2022
E-MAIL	patrick.mitchell@mwsu.edu
CURRENT POSITION	Professor of Mathematics

EDUCATION

Kansas State University , Manhattan, KS
Ph.D in Mathematics: May 1995
Research Area: Number Theory
Kansas State University, Manhattan, KS
M.S in Mathematics: June 1991
Phillips University, Enid, OK
B.S. in Mathematics: April 1986

EXPERIENCE

MIDWESTERN STATE UNIVERSITY, Wichita Falls, TX
 Professor of Mathematics (2010-present)
MIDWESTERN STATE UNIVERSITY, Wichita Falls, TX
 Professor of Mathematics, Chair (2005-2010)
MIDWESTERN STATE UNIVERSITY, Wichita Falls, TX
 Associate Professor of Mathematics, Chair (2004-2005)
MIDWESTERN STATE UNIVERSITY, Wichita Falls, TX
 Associate Professor of Mathematics (2000-2004)
CHADRON STATE COLLEGE, Chadron, NE
 Assistant Professor of Mathematics (1999-2000)
SOUTHEASTERN LOUISIANA UNIVERSITY, Hammond, LA
 Assistant Professor of Mathematics (1995-1999)
KANSAS STATE UNIVERSITY, Manhattan, KS
 Graduate Teaching Assistant (1988-1995)
ENID HIGH SCHOOL, Enid, OK
 Mathematics teacher (1986-1988)

PROFESSIONAL ORGANIZATIONS, COMMITTEES, HONORS

American Mathematical Society
Mathematical Association of America
TAAAMS, Vice-President (2008-2009)
ACU Visiting Committee (2006-2010)
Math Seminar Organizer (MWSU) (2000-2006)
Research Committee (MWSU) (2000-Present)
Math Department Professor of the Year (MWSU 2003)
SGA Faculty Member of the Year award (MWSU 2000)

Appointed to the National Faculty (1997)
Phi Kappa Phi Honor Society (1989 - present)

PUBLICATIONS

- Distribution of constant terms in irreducible polynomials in $Z_p[x]$,
  by Cobb, Lopez,Knox, McDonald and Mitchell
  Notes on Number Theory and Discrete Mathematics
  Vol25, No. 4 (2019) pages 72-82
- Evaluationally Relatively Prime Polynomials,
  by Knox, McDonald and Mitchell
  Notes on Number Theory and Discrete Mathematics
  Vol21, No. 1 (2015) pages 36-41
- Teaching Tricks can be Tricky,
  by Mitchell, Fosnaugh
  Illinois Mathematics Teachers, Vol64, No. 1(2014)
- Precalculus, An Integrated Approach,
  by Knox, May, Mitchell and Tucker
  MSU Press (2012),
- Polynomials Generated by the Fibonacci Sequence,
  by Garth, Mills and Mitchell
  Journal of Integer Sequences, Vol. 10 (2007),
  Article 07.6.8
- Cards and Codes in the Classroom, by Fosnaugh and Mitchell
  Texas Mathematics Teacher, vol. LIII Issue 1,
  Spring 2006, pages 6-8.
- Unavoidable sets of a given size in a finite set, by Mills and Mitchell
  INTEGERS: Electronic Journal of Combinatorial Number Theory,
  Vol 5 (2) (2005)
  (hardcopy edition) Topics in Combinatorial Number Theory,
  published by DIMATIA, vol. 261
- Techonology a Bridge to Experimentation with Open Problems,
  The Journal of Computing Science in Colleges,
  vol. 18, number 1, October 2002, pages 208-215
- Bounding the Smarandache Function by Farris and Mitchell
  Smarandache Notions Journal vol. 13, no. 1-3 (2002), pages 37-42
  URL: www.unm.edu/ smarandache/SmartBoundFarrisMitchell.pdf
- Trisections using bisections by Kincaid and Mitchell
  LATM Journal, vol. 1 no. 1 (2001)
  URL: www.selu.edu/orgs/LATM
- Three Dimensional Lattice Reduction with an arbitrary norm
  International Journal of Mathematics, Game Theory and Algebra,
  vol. 10 number 1 (2000), pages 55-66.
- Virtual Groups by Barnes and Mitchell,
  Preceedings of the 11th Annual ICTCM (1998), pages 299-303.

- Small Solutions of the Legrendre Equation by Cochrane and Mitchell
  Journal of Number Theory, vol. 70 (1998), pages 62-66.

UNDERGRADUATE RESEARCH PROJECTS

Jeremy Coffelt, Bernoulli Numbers
Presented at the 2003 Regional MAA conference

Bo Gilbert, Generalized Linear Recurrence coefficient Polynomials
Presented at the 2009 Regional MAA conference

Kagan Love, Triangular, Square and Poolhall Numbers
Presented at the 2012 TORUS conference

PRESENTATIONS

- Mathematical Games and Tricks Revealed
  Region 9 Math and Science Conference,
  Wichita Falls, Tx. June 7, 2012
- From ABC to ERP
  MAA Sectional Meeting
  Dallas, Tx. April 13, 2012
- BMI, Spaghetti and DNA - What does that have to do
  with probability,
  Region 9 Math and Science Conference,
  Wichita Falls, Tx. June 10, 2011
- Conjectures and Game Strategies,
  Region 9 Math and Science Conference,
  Wichita Falls, Tx. June 12, 2008
- Math and Magic,
  TCTM Math and Science Regional Conference,
  Wichita Falls, Tx. June 9, 2005
- Mathemagic,
  Conference for the Advancement of Mathematics Teaching,
  San Antonio, Tx. July 15-17, 2004
- Coding and design-theoretic applications of polynomials
  Special session host national AMS-MAA meeting
  Pheonix, Az January 7-10, 2004 (with D. Mills and K. Neuenbuger)
- Games, Codes and Classroom Gems,
  TCTM Math and Science Regional Conference,
  Wichita Falls, Tx. June 11, 2003
- Mathematical Modeling for Elementary Education,
  NCTM National meeting,

San Antonio, Tx. April 9-12, 2003
- Techonology a Bridge to Experimentation with Open Problems,
  Consortium for Computing Science in Colleges,
  Denver, Co. October 18-19, 2002
- Secret Codes and Breaking them, Invited address,
  Abilene Christian University, Abilene, Texas, March 22, 2002
- Cryptographic algorithms,
  2nd Annual IEEE SMC Information Assurance Workshop,
  West Point, New York, June 5-6, 2001
- Bounding the Smarandache function,
  MAA Sectional meeting, Clear Lake,TX March 29, 2001
- Great Green Globs and Algebra,
  TCTM regional meeting, Wichita Falls,TX March 3, 2001
- The a,b,c of the ABC-conjecture,
  MWSU Math department seminar, Feb 27, 2001
- Number Theory and Mathematica,
  AMS-MAA Winter Meetings, New Orleans, LA 2001
- Smarandache Function and Fermat,
  Mathematics Seminar Series, Wichita Falls, October 5, 2000
- Using Mathematica to teach Number Theory,
  Math Technology EXPO, Kansas City, October 1-2, 1999
- The RSA public-key encryption system and the Internet,
  Mathematics Colloquim Series II, March, 1999
- Virtual Groups, 11th Annual ICTCM Conference,
  New Orleans, LA, November 19-22, 1998
- Conjectures, Testing and Proving with Geometer's Sketchpad
  Mathematics Technology Expo, Kansas City, October 2-3, 1998
- Small Solutions of Quadratic Congruences, Mathematics Departments
  Colloquium Series I, November 21, 1997
- Scholar for the National Faculty, Resident In-service,
  Natchitoches, LA., July 12-25, 1997
- Using Gauss' Algorithm to Solve Some Number Theory Problems
  AMS-MAA Winter meeting 1997
- An Algorithm for Solving Legendre's Equation
  AMS-MAA Winter meeting, Jan. 1996
- Algorithms for Finding Small Solutions
  AMS-MAA Winter meeting, Jan. 1995

GRANTS

- NSF Grant (TORUS Conference)
  Funded 2018,2019,2020
- Midwestern State University Grant (2004)
  Mathematical Modeling for Elementary Education
- Louisiana Systemic Initiatives Program (LaSIP) grant
  The Nature of Mathematics: Real World Applications

funded 1996-97
- Technology Consultant for M^3 Project, LaSip Grant
  Hammond, LA., June 1997
- Consultant Goals 2000
  Curriculum Development Washington Parish, Summer 1996