

John W. Snow
Associate Professor of Mathematics
Department of Mathematics and Statistics
College of Arts and Sciences

Degrees Earned

Ph.D. in Mathematics, Vanderbilt University, 1998
M.A. in Mathematics, Vanderbilt University, 1996
B.A. in Mathematics, Concordia University, 1994

Professional Licensure and Certifications

Peer-Review Publications and Artistic Performances/Exhibitions

Articles

- **Composition series for Maltsev algebras.** In preparation (copies available).
- **Reflexive relations on algebras with Boolean lattice reducts.** Submitted.
- **Interpolation in small lattices.** (With E. Martin). Submitted.
- **Primitive Positive Clones of Groupoids.** *Algebra Universalis*. To Appear.
- **OPC Lattices and Congruence Heredity.** *Algebra Universalis*. To Appear.
- **Almost distributive sublattices and Congruence Heredity.** *Algebra Universalis* . 57:3-14, 2007.
- **A genetic algorithm for drawing ordered sets .** (With B. Loft). Texas College Mathematics Journal. 3:10-26, 2006.
- **Subdirect Products of Hereditary Congruence Lattices .** *Algebra Universalis* . 54:65-71, 2005.
- **Relations Compatible with Near Unanimity Operations .** *Algebra Universalis* . 52:279-288, 2004.
- **Every Finite lattice in $V(M_3)$ is representable .** *Algebra Universalis* . 50:75-81, 2003.
- **Generating Primitive Positive Clones .** *Algebra Universalis* . 44:169-185, 2000.
- **A Constructive Approach to the Finite Congruence Lattice Representation Problem.** *Algebra Universalis* . 43:279-293, 2000.

Books

Chapters

Proceedings

- **Congruence modular varieties: commutator theory and its uses .** (With R. McKenzie). Structural Theory of Automata, Semigroups and Universal Algebra, proceedings of the NATO ASI, Montreal, 2003.

Artistic Performances

Artistic Exhibitions
Research Monographs and Technical Reports
Funded External Grants
Peer-Review Presentations/Posters

SAM HOUSTON STATE UNIVERSITY

- **Workshop on Universal Algebra and the Constraint Satisfaction Problem**
Vanderbilt University, Nashville, TN
June 17-20, 2007
- **International Conference on Order, Algebra, and Logics**
Vanderbilt University, Nashville, TN
June 12-16, 2007
Talk Presented: Primitive positive clones of groupoids
- **Department Colloquium**
Sam Houston State University, Huntsville, TX
April 18, 2007
Talk Presented: Interpolation in Universal Algebra
- **Special Session on Universal Algebra and Order**
AMS/MAA Joint Meetings,
New Orleans, LA
January 5-8, 2007
Talk Presented: Characterizing lattice terms
Session Organizer
- **Texas Undergraduate Mathematics Conference**
Sam Houston State University, Huntsville, TX
October 21, 2006
Talk Presented: Physics animations with constraints
- **Colloquium**
SUNY New Paltz
New Paltz, NY
July 21, 2006
Talk Presented: Interpolation and congruence lattices
- **Seminar**
Bard College,
Annondale on the Hudson, NY
July 19, 2006
Talk Presented: Constrained Dynamics
- **Special Session on Universal Algebra and Order**
AMS/MAA Joint Meetings,
San Antonio, TX
January 12-15, 2006
Talk Presented: M4 and congruence heredity
Session Organizer
- **Special Session on Universal Algebra and Order**
AMS section meeting,
University of Nebraska, Lincoln
October 21-23, 2005

Talk Presented: Almost distributive sublattices and congruence heredity
Session Organizer

- **Texas Undergraduate Mathematics Conference**
Sam Houston State University, Huntsville, TX
October 15, 2005
Talk Presented: The Hough Transform
- **35th Biannual National KME Conference**
Schreiner University, Kerrville, TX
April 15, 2005
Keynote Address: A Genetic Algorithm for Drawing Ordered Sets
- **Universal Algebra and Logic Seminar**
Vanderbilt University, Nashville, TN
March 16, 2005
Talk Presented: Hereditary Congruence Lattices
- **Department Colloquium**
Sam Houston State University, Huntsville, TX
March 9, 2005
Talk Presented: Two Element Algebras
- **Special Section on Universal Algebra and Lattice Theory**
AMS section meeting,
Vanderbilt University, Nashville, TN
October 16-17, 2004
Talk Presented: Relations on Algebras
- **Algebras, Lattices, Varieties, A Conference in Honor of Walter Taylor**
University of Colorado, Boulder, Colorado
August 15-18, 2004

CONCORDIA UNIVERSITY, NEBRASKA

- **Special Section on Algebras, Lattices, and Varieties**
AMS section meeting,
University of Colorado, Boulder, Colorado
October 2-4, 2003
Talk Presented: Congruence Lattices of Finite Algebras
- **NATO Advanced Studies Institute on Structural Theory of Automata**
Semigroups, and Universal Algebra
University of Montreal, Quebec
July 7-18, 2003
- **Groups, Topology, and Semigroups Seminar**
University of Nebraska, Lincoln, Nebraska
April 16, 2002
Talk presented: Constructing Congruence Lattices of Finite Algebras
- **Groups, Topology, and Semigroups Seminar**
University of Nebraska, Lincoln, Nebraska
January 29, 2002
Talk presented: Algebras, Relations, Compatibility, and Majority
- **Third Annual Regional Workshop in the Mathematical Sciences**
University of Nebraska, Lincoln, Nebraska

October, 2000

Talk presented: Consequences of Algebraic Identities

SCHREINER UNIVERSITY

- **First Annual Thomasina Coverly Memorial Workshop on Algebra and Order**
Vanderbilt University, Nashville, Tennessee
May 24-27, 2000
- **Workshop on Universal Algebra**
Vanderbilt University, Nashville, Tennessee
July 12-16, 1999
Talk presented: Congruence Lattices of Finite Algebras
- **Twenty-Third Holiday Mathematics Symposium**
New Mexico State University, Las Cruces, New Mexico
January 8-12, 1999

VANDERBILT UNIVERSITY

- **Special Session on Semigroups, Algorithms, and Universal Algebra**
AMS section meeting
University of Louisville, Kentucky
March 20-21, 1998
Talk presented: A New Look at Maltsev Conditions
- **NATO Advanced Institute on Algebraic Model Theory**
The Fields Institute, Toronto, Canada
August 19-30, 1996
- **International Conference on Modern Algebra and its Applications**
Vanderbilt University, Nashville, Tennessee
May 14-18, 1996

Work or Professional Experiences

SAM HOUSTON STATE UNIVERSITY, Huntsville, Texas

Associate Professor of Mathematics (with tenure)

Teach, research, committee work

August 2007 - Present

Assistant Professor of Mathematics

Teach, research, committee work

August 2004 – August 2007

CONCORDIA UNIVERSITY, Seward, Nebraska

Assistant Professor of Mathematics

Teach 24+ hours per year, advising, committee work

June 2000 - June 2004

SCHREINER UNIVERSITY, Kerrville, Texas

Assistant Professor of Mathematics

Teach 24+ hours per year, advising, committee work

August 1998 - May 2000

VANDERBILT UNIVERSITY, Nashville, Tennessee

Research Assistant

Independent research in Universal Algebra
Summer 1997, Summer 1998

Graduate Teaching Assistant

Teach one to two courses per semester, research
August 1995 - May 1998

Instructor (Differential Equations)

Summer 1996

UNIVERSITY OF NEBRASKA , Lincoln, Nebraska

The Institute for Visual Information Processing

Research on shape recognition algorithms in NSF sponsored REU
Summer 1993

Honors and Awards

BJARNI JÓNSSON PRIZE FOR RESEARCH, Vanderbilt, 1998

B.F. BRYANT PRIZE FOR EXCELLENCE IN TEACHING, Vanderbilt, 1998

Other Competencies