

CURRICULUM VITAE

NAME: Louis Block

PRESENT POSITION: Professor

ADDRESS: Department of Mathematics, 358 Little Hall, PO Box 118105, University of Florida, Gainesville, Florida 32611

BORN: New York, New York, 1947

DEGREES:

B.A., University of Florida - June 1969.

M.S., Northwestern University - June 1971.

Ph.D., Northwestern University - June 1973.

RESEARCH INTERESTS: Dynamical systems, chaotic dynamics, one-dimensional dynamics, topological entropy, and inverse limit spaces.

PROFESSIONAL EXPERIENCE:

Assistant Professor, University of Florida, September 1973 - June 1978.

Associate Professor, University of Florida, July 1978 - June 1986.

Visiting Fellow, Australian National University, June 25 - August 3, 1984.

Visiting Fellow, Mathematics Institute, University of Warwick, July 1986.

J.H. Van Vleck Visiting Associate Professor, Wesleyan University, September 1984 - June 1985.

Professor, University of Florida, July 1986 - present.

Visiting Fellow, Australian National University, July 18 - August 12, 1988.

Visiting Fellow, Australian National University, June 30 - July 28, 1990.

Associate Chair for Graduate Studies, University of Florida, June 1988 - May 1991.

Van Vleck visiting Professor, Wesleyan University, September 1998 - May 1999.

Associate Chair, University of Florida, July 2000 - May 2002.

PH.D. STUDENTS:

I was the Advisor for:

Shihai Li, Ph.D in August, 1991, Title of Dissertation: Chaos, Recurrence, and Inverse Limit Spaces.

Antonios Valaristos, Ph.D in December, 1994, Title of Dissertation: Period Doubling Patterns and Equicontinuity of Iterates in One-dimensional Dynamics.

Dennis Ledis, Ph.D. in August, 2011, Title of Dissertation: Semi-conjugacies to Tent Maps, Transitivity and Patterns, and Inverse Limit Spaces

I was Cochair for:

Slagjana Jakimovik, Ph.D in August, 2005, Title of Dissertation: On the Classification of Inverse Limit Spaces of Tent Maps.

AWARDS:

Teaching Improvement Program Award, December 1, 1994.

GRANTS:

NSF grant MCS 76-05822 from June 15, 1976 - June 14, 1978.

DSR seed money grant, summer 1980.

Visiting Fellow Grant, Australian National University, June 25 - August 3, 1984.

DARPA Mathematics Program Research Contract from September 16, 1985 - September 30, 1987.

Visiting Fellow Grant, Australian National University, July 18 - August 12, 1988.

DARPA Mathematics Program Research Contract from January 1, 1989 - December 30, 1989.

Visiting Fellow Grant, Australian National University, June 30 - July 28, 1990.

DSR grant, Summer 93.

NSF Grant: Ulam Centennial and Spring Topology and Dynamical Systems Conference 2009, DMS 0844136 from September 15, 2008 to September 2009 (I was a Co-P.I.).

HONORARY SOCIETIES:

Pi Mu Epsilon

Phi Beta Kappa

Phi Kappa Phi

ORGANIZATIONS:

American Mathematical Society

Mathematical Association of America

OTHER PROFESSIONAL ACTIVITIES:

Member of Local Arrangements Committee for International Conferences on Dynamical Systems held at UF in March 1976 and February 1981.

Organized special session on Dynamical Systems at AMS meeting in Albany, NY, August 8-11, 1983

Member of Organizing Committee for Spring Topology Conference (May 1987 - April 1988).

Organized workshop on Low-Dimensional Dynamics, at the University of Florida,
November 8-13, 2001
Member of Organizing Committee for Ulam Centennial and Spring Topology and
Dynamical systems Conference 2009.

REVIEWING REFEREEING ACTIVITIES:

I have reviewed 67 papers for Mathematical Reviews.
I have reviewed grant proposals for NSF.
I have refereed papers for each of the following journals:

Geometry and Topology
Annals of Mathematics
Journal of Institute Des Hautes Etudes Scientifiques.
Proceedings of the American Math. Society.
Transactions of the American Math. Society.
Proceedings of the Conference on the Global Theory of Dynamical Systems at
Northwestern University, June 1979.
Ergodic Theory and Dynamical Systems.
SIAM Journal of Applied Mathematics.
Real Analysis Exchange.
Journal of Nonlinear Analysis.
Israel Journal of Mathematics.
Topology
Houston Journal of Mathematics
Topology and Its Applications
Punjab University Journal of Mathematics

DEPARTMENTAL SERVICE:

Administered the Mathematics Department language exam in French (September
1974 - August 1988).
Member of Graduate Committee (August 1979 - June 1984, June 1988 - June 2009,
and June 2010 - present) (Chairman January 1981 - July 1983 and June 1988
- May 1991).
Graduate Coordinator (August 1979 - July 1983 and June 1988 - May 1991).
Member of the following department committees: Departmental governance com-
mittee (1980), Steering Committee (January 1981 - May 1982, May 1986 -
May 1988, May 1992 - May 1994, and May 2012 - present), Search and Screen
Committee for junior faculty positions (1980 - 1981), Committee to select dif-
ferential equations textbook (1981), Search Committee (1988 -1989), Graduate
Selection Committee (June 1988 - May 1991), Graduate Student Recruitment
Committee (August 1991 - June 1992).
Department Undergraduate advisor (August 1985 - June 1987).
Associate Chair of Graduate Studies (June 1988 - May 1991).

Chair of Visitors Committee (August 1999-July 2000).
Associate Chair (July 2000 - May 2002).
Graduate Mentor (August 2000 - present).
Faculty Mentor (August 2000 - June 2007 and May 2011 - present).
Member of Robert Long Prize Committee (August 2009-present) (Chair from August 2009 - August 2015).
Chair of Text Selection Committee for Advanced Calculus Course (August 2009 - May 2010).

UNIVERSITY SERVICE:

Lower Division Advisor (June 1974 - April 1980 and August 1983 - April 1986).
Member of Phi Beta Kappa undergraduate membership committee (September 1974 - June 1976) (chairman September 1975 - June 1976).
Member of Phi Beta Kappa Ph.D. membership committee (September 1977 - April 1985).
Member of University College tenure and promotion committee (1977).
Member of College of Arts Sciences Bicentennial committee (1975 - 1976).
Commencement Marshall (1975-1976, 2009, and 2012 - present).
Member of University Senate (August 1987 - July 1989).

TALKS, LECTURES, AND INVITED ADDRESSES AT MEETINGS COLLOQUIA:

“Unfoldings of endomorphisms” presented at Midwest Dynamical Systems Seminar at Evanston, Illinois, November 15-16, 1974.
“Morse-Smale endomorphisms of the circle: colloquium talk at North Carolina State University, Raleigh, North Carolina, March 24, 1975.
“An example where topological entropy is continuous” presented in special session on global analysis at AMS meeting at Chicago, Illinois, November 1, 1975.
“Topological entropy at an Ω -explosion” presented in special session on differentiable dynamical systems at AMS meeting at Toronto, Canada, August 25, 1976.
“Continuous maps of the interval with finite nonwandering set” presented at AMS meeting in St. Louis, January 27, 1977.
“Homoclinic points of mappings of the interval” presented at AMS meeting in Atlanta, Georgia, January 4, 1978.
“Simple periodic orbits of mappings of the interval” presented at AMS meeting at Chicago, Illinois, November 12, 1978.
“Periodic orbits and topological entropy of mappings of the circle” presented at International Conference on the Global Theory of Dynamical Systems, at Northwestern University, Evanston, Illinois, June 18-22, 1979.
“Stability of period orbits in the theorem of Sarkovskii” presented in special session on differentiable dynamical systems at AMS meeting at San Antonio, Texas, January 3-8, 1980.

- “Periodic orbits of continuous maps of the circle with fixed points” presented at conference on Topological Dynamics at Oberwolfach, Germany, June 1-6, 1980.
- “Periods of periodic points of maps of the circle which have a fixed point” presented at AMS meeting at San Francisco, California, January 7-11, 1981.
- “Periodic orbits and topological entropy of one dimensional discrete dynamical systems” presented at International Symposium on Dynamical Systems, Gainesville Florida, February 25-27, 1981.
- “Minimizing topological entropy for maps of the circle” presented at Midwest Dynamical Systems Seminar, Cincinnati, Ohio, May 14-16, 1981.
- “Periodic singularities of one parameter families of maps of the interval” presented in special session on Smooth Dynamical Systems of AMS meeting, Austin, Texas, October 7, 1981.
- “Two theorems on the nonwandering set and homoclinic points of maps of the circle” presented in special session on Dynamical Systems at AMS meeting, Cincinnati, Ohio, January 13, 1982.
- “The bifurcation of periodic orbits of one-dimensional maps” presented at AMS meeting, College Park, Maryland, October 30, 1982.
- “Stratification of the space of interval maps” presented at Midwest Dynamical Systems Seminar, Boulder, Colorado, April 7, 1983.
- “The chain recurrent set for continuous maps” short course of three lectures, Australian National University, Canberra, Australia, July 2-3, 1984.
- “Stratification of the space of interval maps” colloquium talk at University of Queensland, Brisbane, Australia, July 17, 1984.
- “Stratification of the space of interval maps” talk at University of Sydney, Sydney, Australia, July 18, 1984.
- “Stratification of the space of interval maps” colloquium talk at University of Sydney, Sydney, Australia, July 19, 1984.
- “Isolated chain recurrent points for one-dimensional maps” seminar talk at University of Sydney, Sydney, Australia, July 20, 1984.
- “Stratification of the space of interval maps” colloquium talk at Latrobe University, Melbourne, Australia, July 25, 1984.
- “Isolated chain recurrent points for one-dimensional maps” seminar talk at University of Melbourne, Australia, July 26, 1984.
- “Stratification of the space of interval maps” colloquium talk at Australian National University, Canberra, Australia, July 31, 1984.
- “The bifurcation of maps of the interval” colloquium talk at University of Hawaii, Honolulu, Hawaii, August 3, 1984.
- “Stratification of continuous maps of the interval” talk in dynamical systems seminar at University of Maryland (During invited one-week visit), College Park, Maryland, March 13, 1985.
- “Turbulence and strongly simple orbits for maps of the interval” one-hour talk at conference on Chaotic Dynamics at Georgia Tech., Atlanta, Georgia, March 26, 1985.

- “ ω -limit sets for maps of the interval” presented in special session on dynamical systems and ergodic theory at AMS meeting, Laramie, Wyoming, August 12, 1985.
- “Stratification of One-Dimensional Discrete Dynamical Systems,” presented at National Intelligence Mathematics and Multiprocessing meeting, CUNY, New York City, New York, October 3, 1985.
- “ ω -limit sets for maps of the interval,” Colloquium talk at Queen’s University, Kingston, Ontario, Canada, June 25, 1986 (during one-week visit).
- “Periodic orbit types for first order difference equations” talk given at DARPA mathematics program meeting, Boston University, Boston, Massachusetts, October 3, 1986.
- “Approximating entropy of maps of the interval” Talk given during one-week visit to Banach Mathematical Center, Warsaw, Poland, for special semester on dynamical systems (October 30, 1986).
- “Topological entropy and symbolic dynamics for maps of the interval” Colloquium talk at Wesleyan University, Middletown, Connecticut, February 6, 1987.
- “Primary orbits for maps of the circle,” invited talk at Czechoslovak Summer School on Dynamical Systems, Zuberec, Czechoslovakia, September 8, 1987.
- “The transition to chaos in one-dimensional models,” presented at the DARPA Applied and Computational Mathematics Program meeting, Arlington, Virginia, October 5, 1987.
- “Primary cycles on the interval and the circle,” Colloquium talk at Wesleyan University, Middletown, Connecticut, November 20, 1987.
- “Primary cycles on the interval and the circle,” seminar talk given at the Mathematisches Institut, Universitat Gottingen, Gottingen, West Germany (during invited one month visit), June 30, 1988.
- “Primary periodic orbits on the interval and the circle,” colloquium talk at Australian National University, Canberra, Australia, July 26, 1988.
- “Primary periodic orbits on the interval and the circle,” colloquium talk at Sydney University, Sydney, Australia, August 5, 1988.
- “Computing topological entropy,” invited talk in Dynamical Systems Seminar, Concordia University, Montreal, Canada, December 1, 1988.
- “Primary cycles on the circle,” invited talk at Midwest Dynamical Systems Conference, Evanston, Illinois, April 22, 1989.
- “A new proof that a continuous map of the interval with only powers of two as periods has zero entropy,” invited talk at Ergodic Theory Conference, University of Washington, Seattle, Washington, July 6, 1989.
- “Computing topological entropy,” invited talk at Southeast Dynamical Systems Conference, Mobile, Alabama, February 23, 1990.
- “Computing topological entropy,” Colloquium talk at Australian National University, Canberra, Australia, July 12, 1990.
- “Topological entropy of maps of the interval,” invited series of two lectures, Nankai Institute of Mathematics, Tianjin, China, October 10 and 12, 1990.

- “Degree one maps of the circle,” invited talk at Peking University, Beijing, China, October 16, 1990.
- “Topological entropy for one-dimensional maps,” invited talk at Southeast Dynamical Systems Seminar, Georgia Institute of Technology, Atlanta, Georgia, March 9, 1991.
- “Computing topological entropy of maps of the interval,” invited talk at Symposium on Dynamical Systems and their Applications, Kiev, USSR, July 1, 1991.
- “Zero entropy permutations,” presented at meeting on low dimensional dynamics, Oberwolfach, Germany, April 25 – May 1, 1993.
- “Dynamics and inverse limit spaces,” presented at Dynamical Systems Seminar, Northwestern University, Evanston, Illinois, November 16, 1993.
- “On homeomorphisms of (I, f) having zero entropy,” invited talk presented at conference “Thirty years after Sharkovskii’s Theorem. New perspectives” in Murcia, Spain, June 15, 1994.
- “Continuity of entropy for a two-parameter family of bimodal maps,” invited talk presented during the Symposium on Ergodic Theory and Dynamical Systems at the Stefan Banach International Mathematical Center, Warsaw, Poland, June 20, 1995.
- “Maps of the interval and inverse limit spaces,” invited talk presented at Beijing Dynamical Systems Conference, Beijing, China, June 18, 1996.
- “Maps of the interval and inverse limit spaces,” invited seminar talk at the University of Science and Technology of China, Hefei, China, June 26, 1996.
- “One-dimensional dynamics,” invited seminar talk at South China Normal University, Guangzhou, China, June 28, 1996.
- “Maps of the interval, inverse limit spaces, and the pseudoarc,” invited presentation in special session on dynamical systems and fractal geometry at AMS meeting in Memphis, TN, March 21, 1997.
- “One-dimensional dynamics, inverse limit spaces, and the pseudoarc,” invited presentation in special session on low dimensional dynamics at AMS meeting in Milwaukee, Wisconsin, October 25, 1997.
- “Dynamics and inverse limit spaces,” invited seminar talk at Boston University, December 7, 1998.
- “Combinatorial dynamics of maps of the interval,” invited seminar talk at Tufts University, February 19, 1999.
- “Symbolic dynamics and the Cantor set,” invited seminar talk at Wesleyan University, March 5, 1999.
- “Dynamics and inverse limit spaces,” invited presentation in special session on Continuum theory and dynamical systems at AMS meeting, University of Florida March 12, 1999.
- “Minimal combinatorial models for maps of an interval with a given set of periods,” invited lecture at European Conference on Iteration Theory, La Manga, Spain September 06, 2000.
- “Topological entropy of extensions of adding machine maps,” invited lecture at European Conference on Iteration Theory, Evora, Portugal, September 5, 2002.

- “Strange Odometers,” invited lecture at the Czech Slovak Workshop on Discrete Dynamical systems, Praded, Czech Republic, September 11, 2003.
- “Strange Adding Machines,” invited talk in the Dynamical Systems Special Session at the 2004 Spring Topology and Dynamical Systems Conference, at the University of Alabama at Birmingham, March 26, 2004.
- “Inverse limits of tent maps,” invited lecture at the 8th Czech-Slovak Workshop on Discrete Dynamical Systems, September 22, 2004, in Praded, Czech Republic.
- “Minimal sets in dynamical systems,” invited lecture at the Czech Slovak Workshop on Discrete Dynamical systems, Praded, Czech Republic, June 29, 2006.
- “On Ingram’s conjecture,” invited lecture at the Visegrad Conference Dynamical Systems, Strbske Pleso, Slovakia, June 29, 2007.
- “Patterns, topological transitivity, and entropy,” invited talk in Special Session on Topological and Combinatorial Dynamics, AIMS international conference, Orlando, Florida, July 2, 2012.
- “Patterns, topological transitivity, and entropy,” invited talk in Dynamical Systems Session at the Summer Topology and its Application Conference, Mankato, Minnesota, July 25, 2012.
- “Topological entropy and one-dimensional dynamics,” invited one week series of lectures at the Silesian Mathematical Summer School on Dynamical Systems, Mathematical Institute in Opava, Opava, Czech Republic, September 9 - 13, 2013.
- “Topological entropy of continuous topologically transitive maps of the interval,” invited talk at Workshop “Complexity and Dimension theory of Skew Products Systems” held at the Erwin Schrödinger International Institute for Mathematical Physics, University of Vienna, Vienna, Austria, September 16 - 20, 2013.
- “The dynamics of two families of maps of the interval,” invited plenary talk at the SIAM Southeast Atlantic Section Conference held at Florida Institute of Technology, Melbourne, FL, March 30, 2014.

PUBLICATIONS:

1. (with J. Franke), “A classification of the structurally stable contracting endomorphisms of S^1 ”, Proc. Amer. Math. Soc. **36** (1972), 597-602.
2. (with J. Franke), “Existence of periodic points for maps of S^1 ”, Invent. Math. **22** (1973), 69-73.
3. “Morse-Smale endomorphisms of the circle”, Proc. Amer. Math. Soc. **48** (1975), 457-463.
4. “Noncontinuity of topological entropy of maps of the Cantor set and of the interval”, Proc. Amer. Math. Soc. **50** (1975), 388-393.
5. “Diffeomorphisms obtained from endomorphisms”, Trans. Amer. Math. Soc. **214** (1975), 403-413.
6. “The periodic points of Morse-Smale endomorphisms of the circle”, Trans. Amer. Math. Soc. **226** (1977), 77-88.

7. “An example where topological entropy is continuous”, *Trans. Amer. Math. Soc.* **231** (1977), 201-213.
8. “Mappings of the interval with finitely many periodic points have zero entropy”, *Proc. Amer. Math. Soc.* **67** (1977), 357-360.
9. “Continuous maps of the interval with finite nonwandering set”, *Trans. Amer. Math. Soc.* **240** (1978), 221-230.
10. “Topological entropy at an Ω -explosion”, *Trans. Amer. Math. Soc.* **234** (1978), 323-330.
11. “Homoclinic points of mappings of the interval”, *Proc. Amer. Math. Soc.* **72** (1978), 576-580.
12. “Simple periodic orbits of mappings of the interval”, *Trans. Amer. Math. Soc.* **254** (1979), 391-398.
13. “Periodic orbits of continuous mappings of the circle”, *Trans. Amer. Math. Soc.* **260** (1980), 553-562.
14. (with J. Guckenheimer, M. Misiurewicz and L.S. Young), “Periodic points and topological entropy of one-dimensional maps”, *Lect. Notes Math.* **819** (Springer, 1980), 18-34.
15. “Stability of periodic points in the theorem of Sarkovskii”, *Proc. Amer. Math. Soc.* **81** (1981), 333-336.
16. “Periods of periodic points of maps of the circle which have a fixed point”, *Proc. Amer. Math. Soc.* **82** (1981), 481-486.
17. (with E.M. Coven and Z. Nitecki), “Minimizing topological entropy for maps of the circle”, *Ergodic Theory and Dynamical Systems* **1** (1981), 145-149.
18. “Periodic orbits and topological entropy of one-dimensional discrete dynamical systems”, *Dynamical System II*, Proc. of a Univ. of Florida International Symposium, (Academic Press, 1982), 499-503 (non-refereed).
19. (with D. Hart), “The bifurcation of periodic orbits of one-dimensional maps”, *Ergodic Theory and Dynamical Systems* **2** (1982), 125-129.
20. (with D. Hart), “The bifurcation of homoclinic orbits of maps of the interval”, *Ergodic Theory and Dynamical Systems* **2** (1982), 131-138.
21. (with J. Franke), “The chain recurrent set for maps of the interval”, *Proc. Amer. Math. Soc.* **87** (1983), 723-727.
22. “Critical points of one-parameter families of maps of the interval”, *Proc. Amer. Math. Soc.* **88** (1983), 347-350.
23. (with D. Hart), “Dynamics and bifurcation in one dimension”, *Trends in Theory and Practice of Nonlinear Differential Equations*, *Lect. Notes in Pure and Applied Math.*, Marcel Dekker **90** (1984), 77-79 (not refereed).
24. (with E.M. Coven, I. Mulvey, and Z. Nitecki), “Homoclinic and nonwandering points for maps of the circle”, *Ergodic Theory and Dynamical Systems* **3** (1983), 521-532.
25. (with D. Hart), “Stratification of the space of unimodal interval maps”, *Ergodic Theory and Dynamical Systems* **3** (1983), 533-539.
26. (with J. Franke), “The chain recurrent set for maps for maps of the circle”, *Proc. Amer. Math. Soc.* **92** (1984), 596-603.

27. (with J. Franke), “*Isolated chain recurrent points for one-dimensional maps*”, Proc. Amer. Math. Soc. **94** (1985), 728-730.
28. (with J. Franke), “*The chain recurrent set, attractors, and explosions*”, Ergodic Theory and Dynamical Systems **5** (1985), 321-327.
29. (with W.A. Coppel), “*Stratification of continuous maps of an interval*”, Trans. Amer. Math. Soc. **297** (1986), 587-604.
30. “*Dynamical Complexity of Maps of the Interval*”, Chaotic Dynamics and Fractals, Notes and Reports in Science and Engineering , **2**, Academic Press (1986), 113-122 (not refereed).
31. (with E.M. Coven), “ *ω -limit sets for maps of the interval*”, Ergodic Theory and Dynamical Systems **6** (1986), 335-344.
32. (with E.M. Coven), “*Maps of the interval with every point chain recurrent*”, Proc. Amer. Math. Soc. **98** (1986), 513-515.
33. (with D. Hart), “*Orbit types for maps of the interval*”, Ergodic Theory and Dynamical Systems **7** (1987), 161-164.
34. (with E.M. Coven), “*Topological conjugacy and transitivity for a class of piecewise monotone maps of the interval*”, Trans. Amer. Math. Soc. **300** (1987), 297-306.
35. (with E.M. Coven), “*Approximating entropy of maps of the interval*”, Dynamical Systems and Ergodic Theory, Banach Center Publications **23** (1989), Polish Scientific Publishers, 237-242.
36. (with E.M. Coven, L. Jonker and M. Misiurewicz), “*Primary cycles on the circle*”, Trans. Amer. Math. Soc. **311** (1989), 323-335.
37. (with J. Keesling, S. Li, and K. Peterson), “*An improved algorithm for computing topological entropy*”, Journal of Statistical Physics **55** (1989), 929-939.
38. (with J. Keesling), “*Computing the topological entropy of maps of the interval with three monotone pieces*”, Journal of Statistical Physics **66** (1992), 755-774.
39. (with W.A. Coppel), *Dynamics in One Dimension*, Lecture Notes in Mathematics, volume 1513, Springer-Verlag (1992), 247 pages.
40. (with S. Schumann), “*Inverse limit spaces, periodic points, and arcs*”, Continua with the Houston Problem Book, Lecture Notes in Pure and Applied Mathematics **170** (1995), 197-205. Marcell Dekker.
41. (with A. M. Blokh and E. M. Coven), “*Zero entropy permutations*”, International Journal of Bifurcation and Chaos **5** (1995), 1331-1337.
42. (with R. Galeeva and J. Keesling), “*Continuity of entropy for a two-parameter family of bimodal maps*”, World Scientific Series in Applicable Analysis **4** (1995), 101-116 (not refereed).
43. (with J. Keesling), “*On homeomorphisms of (I,f) having zero entropy*”, Topology and its Applications **84** (1998), 121-137.
44. (with J. Keesling and V. Uspenskij), “*Inverse limits which are the pseudoarc*”, Houston Journal of Mathematics **26** (2000), 629-638.
45. (with J. Keesling), “*Iterated function systems and the code space*”, Topology and its Applications **122** (2002), 65-75.

46. (with Ethan Coven, William Geller, and Kristin Hubner), “Minimal combinatorial models for maps of an interval with a given set of periods,” *Ergodic Theory and Dynamical Systems* **23** (2003), 707-728.
47. (with J. Keesling), “*A Characterization of adding machine maps*”, *Topology and its Applications* **140** (2004), 151-161.
48. (with J. Keesling), “*Topological entropy and adding machine maps*”, *The Houston Journal of Mathematics* **30** (2004), 1103-1113.
49. (with Slajana Jakimovic, Lois Kailhofer, and James Keesling), “*On the classification of inverse limits of tent maps*”, *Fundamenta Mathematicae* **187** (2005), 171-192.
50. (with James Keesling and Michal Misiurewicz), “*Strange Adding Machines*”, *Ergodic Theory and Dynamical Systems*, **26** (2006), 673-682.
51. (with Slajana Jakimovic and James Keesling), “*On Ingram’s conjecture*”, *Topology Proceedings*, **30** (2006), 95-114.
52. (with James Keesing, Brian Raines, and Sonja Stimac), “*Homeomorphism of unimodal inverse limit spaces with a non-recurrent critical point*”, *Topology and its Applications*, **156** (2009), 2417-2425.
53. (with James Keesling and Dennis Ledis), “*Semi-conjugacies and inverse limit spaces*”, *Journal of Difference Equations and Applications*, **18** (2012), 627-645.
54. (with Dennis Ledis), “*Topological Conjugacy, transitivity, and patterns*”, *Topology and its Applications*, **167** (2014), 53-61.
55. (with James Keesling), “*Topological entropy of transitive maps of the interval*”, *Journal of Difference Equations and Applications*, **21** (2015), 535-544.
56. (with James Keesling and Lenka Rucka), “*A generalized definition of topological entropy*”, *Topology Proceedings*, **52** (2018), 205-218.

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