

CURRICULUM VITAE

DAVID MILOVICH

Current Employment

- Assistant Professor of Mathematics, Texas A&M International University (TAMIU), since fall 2009.

Education

- Ph.D., Mathematics, University of Wisconsin-Madison, May 2009.
- B.S., Mathematics, Massachusetts Institute of Technology, June 2004.
- B.S., Physics, Massachusetts Institute of Technology, June 2004.

Publications

- Forbidden rectangles in compacta, *submitted*.
- Order-theoretic properties of bases in products and box products (with Menachem Kojman and Santi Spadaro), *submitted*.
- The (λ, κ) -Freese-Nation property for boolean algebras and compacta, *Order*, to appear.
- The topology of ultrafilters as subspaces of 2^ω (with Andrea Medini), *Topology and its Applications*, **159** (2012), 1318–1333.
- GO-spaces and Noetherian spectra, *Topology and its Applications*, **158** (2011), 2528–2534.
- Power homogeneous compacta and the order theory of local bases (with Guit-Jan Ridderbos), *Topology and its Applications* **158** (2011), no. 3, 432–444.
- On a Theorem of Van Mill, *Topology and its Applications* **156** (2009), no. 15, 2504–2506.
- Splitting families and the Noetherian type of $\beta\omega \setminus \omega$, *Journal of Symbolic Logic* **73** (2008), no. 4, 1289–1306.
- Noetherian types of homogeneous compacta and dyadic compacta, *Topology and its Applications* **156** (2008), 443–464.
- Tukey classes of ultrafilters on ω , *Topology Proceedings* **32** (2008), 351–362.
- Amalgams, connectifications, and homogeneous compacta, *Topology and its Applications* **154** (2007), 1170–1177.

Fellowships

- NSF Graduate Student Research Fellowship, September 2004–August 2007.

Awards

- Scholar of the year, TAMIU Dept. of Engineering, Mathematics, and Physics, April 2011.
- Excellence in Mathematical Research Award, University of Wisconsin Madison Mathematics Department, May 2009.
- Excellence in Teaching Award, University of Wisconsin Madison Mathematics Department, May 2008.
- Rogers Prize, M.I.T. Mathematics Department Summer Program in Undergraduate Research, August 2002.

Teaching

- Assistant Professor of Mathematics, TAMIU, fall 2009–present:

- Topology (graduate): spring 2012.
- General Topology (undergraduate): fall 2010.
- Calculus I: fall 2009, fall 2010.
- Calculus II: spring 2010, spring 2011.
- University Physics I: spring 2010, spring 2011, spring 2012.
- University Physics I Lab: fall 2011 and spring 2012.
- University Physics II: fall 2010.
- Business Math I: fall 2009 and fall 2011.
- Business Math II: fall 2011.
- Teaching Assistant, University of Wisconsin-Madison Mathematics Department, fall 2007–spring 2009:
 - Calculus, led two discussion sections, spring 2009.
 - Linear Algebra and Differential Equations, led four discussion sections, fall 2008.
 - Calculus and Analytic Geometry, led discussion section, summer 2008.
 - Trigonometry, lecturer for three small sections, spring 2008.
 - Calculus and Analytic Geometry, led two discussion sections, fall 2007.
- Instructor, Summer Enhancement Program, University of Wisconsin-Madison Mathematics Department, taught preparation course for the logic qualifying exam to graduate students, summer 2007.

Invited talks

- *On cofinal types in compacta: cubes, squares, and forbidden rectangles*, Fields Institute Set Theory Seminar, 10/21/2011.
- *Order types of bases in box products, omega*, and homogeneous compacta*, Spring Topology and Dynamics Conference, 3/18/2011.
- *The (λ, κ) -FN and the order theory of bases in boolean algebras*, BLAST (Boolean algebras, Lattices...), 6/2/2010.
- *Order properties of bases in products*, Spring Topology and Dynamics Conference, 3/20/2010.
- *On the order theory of local bases*, Fields Institute Set Theory Seminar Series, 2/12/2010.

Contributed conference talks

- *Box products and singular cardinals*, BLAST, (Boolean algebras, Lattices...), 6/1/2011.
- *Beyond many-player Nim: counterexamples*, South Texas Mathematics Consortium Annual Meeting, 2/20/2010.
- *π -character and the order types of local bases in compacta*, Kunen Fest: Topology and Set Theory Conference, 4/3/2009.
- *Two spectra of Noetherian types*, Spring Topology and Dynamics Conference, 3/8/2009.
- *Math Night: a university reaching out to high schoolers*, Wisconsin Section Annual MAA Meeting, 4/26/2008.
- *Applications of ω_1 -approximation systems*, Boise Extravaganza in Set Theory, 3/28/2008.
- *Diamond and ultrafilters*, Spring Topology and Dynamics Conference, 3/14/2008.
- *Noetherian types of ultrafilters on ω* , Graduate Student Conference in Logic, 4/28/2007.
- *Noetherian types of homogeneous compacta*, Spring Topology and Dynamics Conference, 3/30/2007.
- *Tukey classes of local bases in compacta*, Boise Extravaganza in Set Theory, 3/25/2007.
- *Reflecting cones on boolean algebras*, Greater Boston Logic Conference, 5/13/2006.
- *Some order weight spectra*, Graduate Student Conference in Logic, 4/29/2006.
- *Branch Products*, Joint Mathematics Meetings, AMS Special Session on The Many Lives of Lattice Theory and the Theory of Ordered Sets, with Connections to Combinatorics, 1/7/2004.

Math Outreach/Enrichment Talks

- *Simple calculator explorations of chaos*, TAMIU Mathematics/Physical Science Educator Cohort, 5/23/2011 and May 2010.
- *How the Global Positioning System (GPS) uses general relativity*, TAMIU Mathematics/Physical Science Educator Cohort, 5/23/2011 and May 2010.
- *Large networks, hidden order, and the game of Sim*, High School Math Night, University of Wisconsin-Madison, 11/19/2008.
- *Ramsey's Theorem via nonstandard numbers*, Undergraduate Mathematics Club, University of Wisconsin-Madison, 11/10/2008.
- *Infinity with rubber bands*, Math Week, Madison East High School, 5/25/2008.
- *Introduction to Ordinals*, Splash (high school level audience), M.I.T. Educational Studies Program, fall 2003.

Professional Affiliations

- American Mathematical Society
- Association for Symbolic Logic