

L. Pedro Poitevin

Assistant Professor
Mathematics Department
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Education

Ph.D. in Mathematics, October 15, 2006
University of Illinois at Urbana-Champaign, Urbana, IL, USA

Dissertation: "Model Theory of Nakano Spaces"

Thesis Director: C. Ward Henson

Abstract: Some classes of Nakano spaces are shown to be axiomatizable in continuous logic for metric structures. The theory of atomless Nakano spaces equipped with a modular having a fixed compact essential range is shown to admit quantifier elimination. It is also shown that if this essential range is moreover bounded away from 1, the latter theory is model-theoretically stable.

Lic. in Mathematics, October 1996
Universidad del Valle de Guatemala, Guatemala.

Teaching Experience

Salem State University

Assistant Professor

<i>Course</i>	<i>Semester</i>
Introduction to Proofs	Spring 2010, Fall 2007
Basic Algebra	Spring 2010
Real Analysis	Fall 2010, Spring 2007
Real Analysis (graduate course)	Spring 2010, Spring 2008
Theory of Numbers (graduate course)	Summer 2009
Theory of Numbers	Spring 2009
Mathematics for the Liberal Arts	Spring 2009
Freshman Seminar	Fall 2008, Spring 2009
Complex Variables	Spring 2008
Precalculus	Fall 2009, Fall 2007, Spring 2008
Calculus I	Fall 2007
Foundations of Mathematics	Summer 2007
Functional Analysis	Summer 2007
Data, Statistics, and Probability for Middle School Teachers	Spring 2007
Business Calculus	Fall 2006, Spring 2007
Calculus II	Fall 2006, Spring 2007, Fall 2008
Ordinary Differential Equations	Fall 2006

University of Illinois at Urbana-Champaign

Teaching Assistant (* indicates full responsibility as instructor)

<i>Course</i>	<i>Style of Instruction</i>	<i>Semester</i>
Integral Calculus*	Merit Workshop	Fall 2004
		Spring 2004
Multivariable Calculus*	Merit Workshop	Spring 2003
		Spring 1999
Numeracy*	Lecture and Discussion	Fall 2002
Differential Calculus*	Calculus & Mathematica	Fall 2001
Integral Calculus*	Calculus & Mathematica	Spring 2000
Intro. to Real Analysis	Lecture and Discussion	Summer 2000
Calculus for Business	Lecture and Discussion	Fall 1999

Guatemala

Instructor

<i>Course</i>	<i>Semester</i>	<i>Institution</i>
Complex Variables*	Summer 2001	Universidad del Valle
Integral Calculus*	Spring 1997	Universidad del Valle
Differential Equations*	Spring 1997	Universidad del Valle
Mathematics II for Ed. Majors	Spring 1997	Universidad del Valle
Mathematics I for Ed. Majors	Fall 1996	Universidad del Valle
Point-Set Topology*	Fall 1996	Universidad San Carlos
Precalculus*	Fall 1996	Universidad Fco. Marroquín
Advanced Calculus*	Spring 1996	National Bank of Guatemala
Differential Calculus*	Spring 1997	Universidad Rafael Landívar

USA/Canada Mathcamp

Mentor

The job consisted of teaching the courses enumerated below, as well as supervising student projects on Lebesgue Integration, Gödel's Incompleteness Theorem, Arithmetical Functions, and Surreal Numbers.

<i>Course</i>	<i>Length</i>
Set Theory	10 hours
Game Theory	10 hours
Model Theory	50 hours
Lebesgue Integration	10 hours
Infinite Ramsey Theory	10 hours

International Mathematical Olympiad

Leader of the Guatemalan delegation to the 38th International Mathematical Olympiad in Mar del Plata, Argentina.

Articles

- L. P. Poitevin and Y. Raynaud, *Positive contractive projections in Nakano spaces*, Indagationes Mathematicae, Vol. 19, No. 3, 2008, pp. 441-464.

Awards and Honors

- Project NeXT Fellowship, sponsored by the Association of Symbolic Logic, 2007-2008
- Trjitzinsky Fellowship, Fall 2005
- Departmental Instructional Award for Outstanding Teaching, University of Illinois at Urbana-Champaign, 2004.
- Incomplete List of Excellent Teachers as ranked by students, University of Illinois at Urbana-Champaign, 2004
- Incomplete List of Excellent Teachers as ranked by students, University of Illinois at Urbana-Champaign, 2001
- Outstanding Academic Performance Award, Universidad del Valle de Guatemala, 1996
- Outstanding Academic Performance Award, Universidad del Valle de Guatemala, 1995

Invited Talks

- *Paving Nakano spaces by finite-dimensional sublattices*: Université Lyon 1, June 9, 2009.
- *Ranges of positive contractive projections in Nakano spaces*: Harvard University, May 10, 2009.
- *Axioms for Nakano spaces*: MIT Logic Seminar, November 5, 2008.
- *Nakano Spaces*: Colloquium talk given at the Universidad de los Andes on August 10, 2008.
- *Basic Model Theory of Nakano Spaces I and II*: two lectures as guest speaker at the Encuentro Internacional de Matemáticas de la Universidad Sergio Arboleda in Bogotá, Colombia, on August 4 and August 5, 2008.
- *Continuous Logic for Metric Structures*: a set of seven lectures delivered at the “Segunda Escuela de Verano de Matemáticas” of the Universidad Sergio Arboleda, Bogotá, Colombia, July 5-13, 2007.

Contributed Talks

- *Classroom voting in an introductory undergraduate real analysis course*: Joint Meetings of the AMS/MAA, January 9, 2010, San Francisco, California.
- *An Introduction to Continuous Logic*: Meeting of the Northeastern Section of the Mathematical Association of America, Sacred Heart University, Fairfield, Connecticut, November 18, 2006.
- *Basic Model Theory of Nakano spaces*: 6th Annual Graduate Student Logic Conference in Logic, in Urbana, Illinois, on April 23, 2005.
- *Some Generalizations of Ramsey Theorem*: Analysis Seminar for Graduate Students, UIUC, September 23, 2003.
- *Axiomatizability of Orlicz lattices I and II*: Model Theory in Analysis and Geometry seminar, University of Illinois at Urbana-Champaign (UIUC), September 8 and 12, 2003.
- *Model Theory in Functional Analysis*: Departmental colloquium for graduate students, UIUC, November 4, 2002.
- *Hidden Markov Models in Bioinformatics*: Data Mining in Bioinformatics, UIUC, March 14, 2002.
- *Introduction to Noncommutative Martingales I and II*: RAP seminar on Noncommutative L_p -spaces, University of Illinois at Urbana-Champaign, September 13 and 20, 2001.

- *Some Generalizations of Ramsey Theorem*: Combinatorics and Number Theory Seminar, UIUC, July 12, 2001.

Conferences and Workshops

- Urbana in Lyon, Université Lyon 1, Lyon, France, June 6-10, 2010.
- MAMLS, Harvard University, May 9-10, 2010.
- Encuentro Internacional de Matemáticas de la Universidad Sergio Arboleda, Bogotá, Colombia, August 3—5, 2008.
- MathFest, Madison, Wisconsin, Summer 2008
- Funded participant at the Park City Mathematics Institute, July 6—26, 2008
- MAA Writing Workshop for Mathematicians, Washington DC, Summer 2008
- Spring Northeastern Section of the Mathematical Association of America Meeting, Saint Michael's College, May 30, 2008
- Joint meetings of the AMS/MAA, San Diego, CA, 2008
- MathFest, San José, California, Summer 2007
- Segunda Escuela de Verano de Matemáticas, Universidad Sergio Arboleda, Bogotá, Colombia, 2007
- National Conference in Undergraduate Research, San Rafael, California, 2007
- Topics in computability: a conference in honor of Richard Shore, MIT, Cambridge, Massachusetts, 2007
- Meeting of the Northeastern Section of the Mathematical Association of America, Sacred Heart University, Fairfield, Connecticut, 2006
- Joint meetings of the AMS/MAA, San Antonio, TX, 2006
- Logic and mathematics: interactions and connections, Urbana, Illinois, 2003
- Logic Colloquium, Vienna, Austria, 2002
- Wabash Analysis Seminar, Wabash College, Indiana, 2002
- Workshop in model theory, Toronto, Ontario, 2001
- Midwest model theory seminar, Madison, Wisconsin, 2001
- Midwest model theory seminar, Columbus, Ohio 2000
- French-Central-American congress of mathematics, Antigua, Guatemala, 1996
- French-Central-American congress of mathematics, Antigua, Guatemala, 1995

Employment

Assistant Professor of Mathematics

Salem State College
2006–present

Tenure-track appointment.

Service

- Lathrop Awards Committee, Mathematics Department, Salem State College, 2008-2010
- Undergraduate Curriculum Committee member, Mathematics Department, Salem State College, 2009-2010
- Co-coordinator of the Mathematics Department's Speaker Series, Salem State College, 2008-2009
- Interim Graduate Coordinator, Mathematics Department, Salem State College, Fall 2008
- Graduate Curriculum Committee, Mathematics Department, Salem State College, 2007–present
- Foundations of Excellence Committee, Salem State College, 2007–present
- Co-advisor, Math Society, Mathematics Department, Salem State College, 2006–present
- Retention Committee, Salem State College, 2006–present
- Chair, T.A. Teaching Awards Committee, Department of Mathematics, University of Illinois at Urbana-Champaign, 2004–2005.
- Member, Graduate College Career Advisory Committee, University of Illinois at Urbana-Champaign, 2004–2006.
- Mentor, Mentoring Program for New Teaching Assistants, Department of Mathematics, University of Illinois at Urbana-Champaign, 2000–2001.

Memberships

- Mathematical Association of America
- American Mathematical Society
- Association of Symbolic Logic

Personal Information

Country of Birth: Germany.

Citizenship: Guatemalan.

Immigration Status: Permanent resident.

References

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