

L. Pedro Poitevin

Assistant Professor
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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 College

Assistant Professor

<i>Course</i>	<i>Semester</i>
Complex Variables	Spring 2008
Real Analysis (graduate course)	Spring 2008
Precalculus	Fall 2007
	Spring 2008
Introduction to Proofs	Fall 2007
Calculus I	Fall 2007
Precalculus	Fall 2007
Foundations of Mathematics	Summer 2007
Functional Analysis	Summer 2007
Data, Statistics, and Probability for Middle School Teachers	Spring 2007
Real Analysis	Spring 2007
Business Calculus	Fall 2006
	Spring 2007
Calculus II	Fall 2006
	Spring 2007
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 Education Majors	Spring 1997	
Mathematics I for Education Majors	Ma-Fall 1996	
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	1 week
Game Theory	1 week
Model Theory	4 weeks
Lebesgue Integration	1 week
Infinite Ramsey Theory	1 week

International Mathematical Olympiad

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

Articles Submitted

- L. P. Poitevin and Y. Raynaud, *Positive contractive projections in Nakano spaces*.

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

Seminar Talks

- *Continuous Logic for Metric Structures and Applications to Nakano Spaces*: 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.
- *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

- Joint meetings of the AMS/MAA, San Diego, CA, 2008
- MathFest, San José, California, 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

- 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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Professor Chris Boucher
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Professor Yves Raynaud
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