

Christopher S. Shaw
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Department of Mathematics

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EDUCATION

University of Maryland, College Park

Ph.D., Mathematics (2008)

Thesis: *Weakly o-minimal structures and Skolem functions*, advised by M. C. Laskowski

M.A., Mathematics (2004)

Scholarly Paper: *O-minimal theories and omitting types*

The George Washington University

B.A., Mathematics and Spanish Literature (2001), *summa cum laude*, University Honors Scholar

Honors Thesis: *Models of time and Jorge Luis Borges*

Rondout Valley High School, Accord, NY

New York State Regents Diploma with Honors (1997), class valedictorian

EMPLOYMENT

University of Maryland, College Park, MD

September 2008—

Associate Director, Norbert Wiener Center for Harmonic Analysis and Applications

Adjunct Professor, 6 credits teaching per year (see **Teaching**)

- Oversee applications and administration of research contract and grant funds
- Admissions, advisement, administration, and coordination of Mathematics of Advanced Industrial Technology (MAIT) Program

Summer 2005

Administrative Assistant, SPIRAL: an REU for undergraduate math majors from HBCUs

- Recruit and field applications; arrange housing, services, and remuneration for students

August 2004—July 2008

Administrative Assistant, Norbert Wiener Center

- Drafted successful proposal to create MAIT graduate program
- Coordination of annual February Fourier Talks conference; web maintenance

The George Washington University, Washington, DC, August 2000—August 2001

Executive Aide (full-time), Office of Undergraduate Admissions

- Recruit, hire, train, and supervise student employees
- Coordinate tours and visits for prospective undergraduate students

TEACHING

Large lecture

- Elementary Calculus I (Two sections totaling 400 students), *U. of Md., Fall 2009*
- Elementary Calculus II (150 students), *U. of Md., Spring 2009*

Sole contact

- Introductory Probability, *U. of Md., Fall 2008*
- Pre-calculus, *U. of Md., Summer 2007*
- Graduate Logic Qualifying Exam review course, *U. of Md., Summer 2004; Summer 2006*
- Mathematics for Elementary School Teachers, *U. of Md., Spring 2003; Spring 2004*

Teaching assistant

- College Algebra, *Howard University, Fall 2004*
- SPIRAL program for math majors from affiliated HBCUs, *U. of Md., Summer 2004*
- Elementary Calculus, *U. of Md., Fall 2001; Fall 2003*

Grading

- Graduate-level Introductory Logic, *U. of Md., Fall 2003*
- Calculus III, *U. of Md., Spring 2002*

Pedagogy training

- Member of informal mathematics pedagogy study group, 2008-2009
- Completed MATH 695 teaching training course, *U. of Md., Fall 2001*

Other

- Private tutoring: Algebra; Calculus; Logic; Probability; Spanish Language; Statistics
- Administration of Math Placement Exams, *Summer 2002-2007*

RESEARCH PUBLICATIONS

- "Existence of Skolem functions in certain weakly o-minimal theories," in preparation (2009).
- "Weakly o-minimal structures and Skolem functions," Dissertation (2008). Available online at www.lib.umd.edu/drum/handle/1903/8545.
- "Zero autocorrelation waveforms: A Doppler statistic and multifunction problem," with J. Benedetto, J. Donatelli, and I. Konstantinidis, Proceedings of the 2006 IEEE International Conference on Acoustics, Speech and Signal Processing (2006).
- "A Doppler statistic for zero autocorrelation waveforms," with J. Benedetto, J. Donatelli, and I. Konstantinidis, CISS 2006 Proceedings (2006).
- "Totalitarian cinema," with R. Clay Travis, *Journal Ex-Nihilo*, Geo. Washington Univ. (1999).

SEMINARS AND CONFERENCES

Invited talks:

- *Mathematics Colloquium, TBA (invited)*, Georgetown University, Spring 2010
- *Weakly o-minimal structures and Skolem functions*, McDaniel College, 3/12/08
- *Definability in weakly o-minimal structures*, Spotlight conference, University of Maryland, 4/13/07
- *What are the 'strongest' weakly o-minimal structures?*, US Naval Academy, 1/25/07
- *Classical o-minimal structures and theories*, George Washington University, 2/27/04
- *A few classical results in the model theory of fields*, George Washington University, 4/8/03

University of Maryland logic seminar talks

- Mar. 2002, Mar./May 2003, Feb./May/Sep. 2004, Nov. 2006, Jan. 2007, Apr. 2008

Conferences organized:

- Administrative organizer, February Fourier Talks, 2006 – 2010, U. of Maryland
- Organizer, Spotlight on Graduate Research conference, 2002 – 2004, U. of Maryland

Conferences attended:

- MAMLS Meeting in honor of Gregory Cherlin's 60th Birthday, Oct. 2008, Rutgers Univ.
- Annual Meeting, Association of Symbolic Logic, Mar. 2008, UC Irvine
- Workshop in Model Theory and Computable Model Theory, Feb. 2007, Univ. of Florida
- Annual Meeting, Association of Symbolic Logic, Apr. 2006, Univ. du Québec à Montréal
- Annual Meeting, Association of Symbolic Logic, May 2004, Carnegie Mellon Univ.
- Annual Meeting, Association of Symbolic Logic, Jun. 2003, Univ. of Ill., Chicago

OTHER RESEARCH EXPERIENCE

- REU Math program at Tulane University, summer 2000, with Prof. Jim Rogers
- Research Assistantship, strained balloon modeling, GW, 1999-2000, with Prof. Frank Baginski, supported by NASA Grant NAG5-697

AWARDS AND HONORS

Supported by NSF grant DMS 0600217 (M. C. Laskowski, PI)	2008
Monroe Martin Prize, Spotlight on Graduate Research contest, U. of Maryland	2006
Elected Student Representative to MATH Graduate Program, U. of Maryland	2004
Honorable Mention, Excellence in Teaching Awards, U. of Maryland	2003
Special Mention, Excellence in Teaching Awards, U. of Maryland (nominated but not eligible)	2001
Teaching Assistantship, U. of Maryland (continuous to graduation)	2001
Two-year Academic Fellowship, U. of Maryland	2001
Henry Grattan Doyle Memorial Prize for Spanish Literature, GW	2001
Harmon Choral Award for outstanding graduating senior, GW	2001
Ruggles Prize for undergraduate achievement in Mathematics, GW	2000

MEMBERSHIPS

American Mathematical Society	2002
Association for Symbolic Logic	2002
Harmon Choral Associates of GW (current President)	2003
ΣΔΠ, National Collegiate Hispanic Honor Society	1998
ΦBK, National Honor Fraternity	1999

SKILLS AND INTERESTS

- Spanish language
- Basic web design and maintenance (HTML, PHP), LaTeX, Mathematica, some MATLAB
- Crossword puzzle construction
- Second degree black belt, Soo Bahk Do Moo Duk Kwan (Korean martial art)