Tomek Bartoszynski
Curriculum Vita
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Personal information

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Education and Degrees

• Habilitation, Polish Academy of Sciences, 2004
Habilitation thesis: Duality between Measure and Category as exemplified by perfectly meager and strongly meager sets.
• Ph. D. Mathematics , Warsaw University, Poland, 1984
Thesis advisor: Professor Wojciech Guzicki.
Thesis title: "Kombinatoryczne aspekty miary Lebesgue'a i kategorii Baire'a." (Combinatorial aspects of measure and category)
Graduate studies at the Department of Mathematics, Warsaw University, Poland, October 1982–September 1984
• M.Sc. Mathematics, Warsaw University, Poland, 1981
Undergraduate studies at the Department of Mathematics, Warsaw University, Poland, October 1976–June 1981.

Employment History

Program Director (Algebra, Number Theory, Combinatorics and Foundations), National Science Foundation, September 2003-present
Professor, Department of Mathematics, Boise State University, Boise, Idaho, May 1998–August 2006
Senior Researcher, Fields Institute, Toronto, Canada October 2002 – December 2002
Visiting Professor, Department of Mathematics, College of Staten Island, City University of New York, January 2000–June 2000
Visiting Professor, Department of Mathematics, Rutgers University New Brunswick, New Jersey September 1999–June 2000
Associate Professor, Department of Mathematics, Boise State University, Boise, Idaho, August 1995–April 1998
Alexander von Humboldt Fellow, Institut für Matematik, Freie Universität, Berlin, Germany, August 1996–August 1997
Assistant Professor, Department of Mathematics, Boise State University, Boise, Idaho, August 1990–June 1995
Lady Davis Fellow, Department of Mathematics, Hebrew University Jerusalem, Israel, October 1990–June 1991

Visiting Assistant Professor, Department of Mathematics, University of California, Berkeley, January 1990–July 1990
Visiting Scholar, Department of Mathematics, University of California, Berkeley, July 1989–December 1989
Visiting Assistant Professor, Department of Mathematics, University of California, Davis, July 1988–July 1989
Visiting Assistant Professor, Department of Mathematics, University of California, Berkeley, January 1986–May 1988
Assistant Professor, Department of Mathematics, Warsaw University, Poland, October 1984–October 1987
Associate Lecturer, Department of Mathematics, Warsaw University Extension, Białystok, Poland, October 1981–September 1982

Awards

Ministry of Higher Education Award (Poland) for top Habilitation thesis, 2004
Boise Foundation Award for Research/Creative Activity 1998
College of Arts and Sciences Award for Distinguished Research, 1995
Ministry of Higher Education Award (Poland) for top Ph.D. thesis, 1985

Research support

2002-03	National Science Foundation grant DMS-0200671	Cardinal Invariants and Sets of Reals
2002-03	National Science Foundation grant DMS-0139962 (with Justin Moore)	Boise Extravaganza in Set Theory (BEST) Conference
1999–02	National Science Foundation grant DMS–9971282 (with Marion Scheepers)	Special sets of reals
1999–02	National Science Foundation grant DMS–9812810 (with Marion Scheepers)	Boise Extravaganza in Set Theory (BEST) Conference
1996–97	Alexander von Humboldt Stiftung, Berlin, Germany	Cardinal invariants, forcing and sets of reals
1995–98	National Science Foundation grant DMS–9505375 (with Marion Scheepers)	Set theory: sets of real numbers and infinite games
1994–95	Idaho State Board of Education grant #95–041	Topics in set theory
1993–94	Faculty Research Associates Program grant	
1991–92	Idaho State Board of Education grant #92–096	Null and meager sets
1990–91	Lady Davis Fellowship, Jerusalem, Israel	

List of Publications

Books

(1) Tomek Bartoszynski and Haim Judah, *Set theory: On the structure of the real line*, A.K. Peters Ltd., 1995
(2) Set theory: BEST I–III (Tomek Bartoszynski and Marion Scheepers, eds.), Contemporary Mathematics, vol. 192, American Mathematical Society, 1996

Papers

(1) Tomek Bartoszynski, *On some subideals of the ideal of meager sets*, in Proceedings of Conference "Open Days in Set Theory" in Jadwisin (1983), 25–34

(2) Tomek Bartoszynski, *Additivity of measure implies additivity of category*, Transactions of American Mathematical Society **281** (1984), no. 1, 209–213

(3) Tomek Bartoszynski, *Combinatorial aspects of measure and category*, Fundamenta Mathematicae **127** (1987), no. 3, 225–239

(4) Tomek Bartoszynski, *On covering of real line by null sets*, Pacific Journal of Mathematics **131** (1988), no. 1, 1–12.

(5) Tomek Bartoszynski, Haim Judah and Saharon Shelah, *The cofinality of cardinal invariants related to measure and category*, The Journal of Symbolic Logic **54** (1989), no. 3, 719–726

(6) Tomek Bartoszynski and Haim Judah, *On cofinality of the smallest covering of the real line by meager sets*, The Journal of Symbolic Logic **54** (1989), no. 3, 828–832

(7) Tomek Bartoszynski and Haim Judah, *On Sierpiński's sets*, Proceedings of the American Mathematical Society **108** (1990), no. 2, 507–512

(8) Tomek Bartoszynski and Haim Judah, *Jumping with random reals*, Annals of Pure and Applied Logic **48** (1990), no. 3, 197–213

(9) Tomek Bartoszynski, *On the structure of measurable filters on a countable set*, Real Analysis Exchange **17** (1992), no. 2, 681–701.

(10) Tomek Bartoszynski and Saharon Shelah, *Intersection of* $< 2^{\aleph_0}$ *ultrafilters may have measure zero*, Archive for Mathematical Logic **31** (1992), no. 4, 221–226.

(11) Tomek Bartoszynski and Haim Judah, *Measure and category – filters on* ω, in Set Theory of the continuum, Mathematical Sciences Research Institute Publications vol. 26 (1992), Springer Verlag, 175–202

(12) Tomek Bartoszynski and Haim Judah, *Strong measure zero sets*, in Israel Mathematical Conference Proceedings, vol. 6 (1993), 13–62

(13) Tomek Bartoszynski and Saharon Shelah, *Closed measure zero sets*, Annals of Pure and Applied Logic **58** (1992), 93–110

(14) Tomek Bartoszynski, Martin Goldstern, Haim Judah and Saharon Shelah, *All meager filters may be null*, Proceedings of the American Mathematical Society **117** (1993), no. 2, 515–521.

(15) Tomek Bartoszynski, Haim Judah and Saharon Shelah, *The Cichoń diagram*, The Journal of Symbolic Logic **58** (1993), no. 2, 401–423

(16) Tomek Bartoszynski, Winfried Just and Marion Scheepers, *Covering games and the Banach–Mazur game: k–tactics*, The Canadian Journal of Mathematics **45** (1993), no. 5, 897–929

(17) Tomek Bartoszynski and Haim Judah, *On cofinality of the smallest covering of the real line by meager sets II*, Proceedings of the American Mathematical Society **123** (1995), no. 6, 1879–1885

(18) Tomek Bartoszynski and Marion Scheepers, *A-sets*, Real Analysis Exchange **19** (1993/94), no. 2, 521–528

(19) Tomek Bartoszynski and Haim Judah, *Borel images of sets of reals*, Real Analysis Exchange **20** (1994/95), no. 2, 1–23

(20) Tomek Bartoszynski and Marion Scheepers, *Remarks on small sets related to trigonometric series*, Topology and Its Applications **64** (1995), 133–140

(21) Tomek Bartoszynski and Marion Scheepers, *Filters and games*, Proceedings of the American Mathematical Society **123** (1995), 2529–2534
(22) Tomek Bartoszynski and Ireneusz Reclaw, *Not every γ-set is strongly meager*, Set theory: BEST I–III (Tomek Bartoszynski and Marion Scheepers, eds.), Contemporary Mathematics, vol. 192, American Mathematical Society, 1996, pp. 25–29.
(23) Tomek Bartoszynski, Andrzej Roslanowski and Saharon Shelah, *Adding one random real*, The Journal of Symbolic Logic, **61** (1996), no. 1, 80–91
(24) Tomek Bartoszynski, *Splitting number*, Proceedings of the American Mathematical Society, **125** (1997), 2141–2145
(25) Tomek Bartoszynski, *Remarks on the intersection of filters*, Topology and Its Applications, **84** (1998), 139–143
(26) Tomek Bartoszynski, Andrzej Roslanowski and Saharon Shelah, *After all, there are some inequalities provable in ZFC*, The Journal of Symbolic Logic, **65** (2000), no. 2, 803–816
(27) Tomek Bartoszynski, *A note on duality between measure and category*, Proceedings of the American Mathematical Society **128** (2000), no. 9, 2745–2748
(28) Tomek Bartoszynski and Saharon Shelah, *Strongly meager sets do not form an ideal*, Journal of Mathematical Logic **1** (2001), no. 1, 1–34
(29) Tomek Bartoszynski and Saharon Shelah, *Continuous images of sets of reals*, Topology and Its Applications **116** (2001), 243–253
(30) Tomek Bartoszynski, *On perfectly meager sets*, Proceedings of the American Mathematical Society **130** (2002), no. 4, 1189–1195
(31) Tomek Bartoszynski and Saharon Shelah, *Strongly meager and strong measure zero sets*, Archive of Mathematical Logic **41** (2002), no. 3, 245–250.
(32) Tomek Bartoszynski and Andrzej Roslanowski, *Towards Martin's Minimum*, Archive of Mathematical Logic **41** (2002), 65–82
(33) Tomek Bartoszynski and Saharon Shelah, *Perfectly meager sets versus universally null sets*, Proceedings of the American Mathematical Society, **130** (2002), no. 12, 3701–3711
(34) Tomek Bartoszynski, *Remarks on small sets of reals*, Proceedings of the American Mathematical Society, **131** (2003), no. 2, 625–630
(35) Tomek Bartoszynski and Lorenz Halbeisen, *On a theorem of Banach and Kuratowski and K-Lusin sets*, Rocky Mountain Journal of Mathematics, **33** (2003), no. 4, 1223–1231
(36) Tomek Bartoszynski, Andrzej Nowik, Tomasz Weiss, *Strongly meager sets may be quite big*, Israel Journal of Mathematics **139** (2004), 237–251
(37) Tomek Bartoszynski, Saharon Shelah and Boaz Tsaban *Additivity properties of topological diagonalizations*, Journal of Symbolic Logic **68** (2003), no. 4, 1254–1260
(38) Tomek Bartoszynski and Saharon Shelah, *Strongly meager sets of size continuum*, Archive for Mathematical Logic, **42** (2003), no. 8, 769–779
(39) Tomek Bartoszynski and Boaz Tsaban *Hereditary topological diagonalizations*, Proceedings of AMS **134** (2005), 605–615
(40) Tomek Bartoszynski, Mirna Dzamonja, Lorenz Halbeisen, Eva Murtinova, Anatojij Plichko, *On bases in Banach spaces*, Studia Mathematica, **170**(2) (2005) 147-171

(41) Tomek Bartoszynski and Masaru Kada *Hechler's theorem for the meager ideal* Topology Appl., **146–147** (2005), 429–435
(42) Tomek Bartoszynski and Saharon Shelah, *On density of Hausdorff ultrafilters* , to appear in Logic Colloquium 2004.
(43) Tomek Bartoszynski, *Measure and Category Invariants*, to appear in Handbook of Set Theory

Unpublished notes

(1) Tomek Bartoszynski and Haim Judah, *Ramsey filters versus Cohen reals*, 1988
(2) Tomek Bartoszynski and Saharon Shelah, *Borel Conjecture and* $2^{\aleph_0} > \aleph_2$, 1992
(3) Tomek Bartoszynski and Haim Judah, *On Sierpiński sets II*, 1993
(4) Tomek Bartoszynski and Lorenz Halbeisen, *There are big symmetric planar sets meeting polynomials at just finitely many points*, 2002

Professional Societies

American Mathematical Society, Association of Symbolic Logic