

Curriculum Vitae

Personal Information

Name	Rafał Filipów
Birth	25th April 1976, Lębork, Poland
Current address	Institute of Mathematics University of Gdańsk ul. Wita Stwosza 57 80-952 Gdańsk Poland
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Education

2000-2004	Doctoral Studies, Institute of Mathematics, Polish Academy of Sciences, defended in 2004, title of doctoral thesis: “Własność różnicy w sensie de Bruijna dla rodzin funkcji mierzalnych” (“The difference property in de Bruijn sense for families of measurable functions”), written under supervision of Ireneusz Reclaw
1995–2000	Master Studies, Institute of Mathematics, University of Gdańsk, Gdańsk, Poland, title of master thesis: “Własność różnicy dla rodzin funkcji mierzalnych” (“The difference property for families of measurable functions”), written under supervision of Ireneusz Reclaw

Employment

2004–now	Assistant Professor, Institute of Mathematics, University of Gdańsk, Gdańsk, Poland
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Research abroad

2002	Thematic Program on Set Theory and Analysis, September–December 2002, The Fields Institute for Research in Mathematical Sciences, Toronto, Canada
2007/08	Postdoc, October 2007–September 2008, Department of Mathematics, Ben-Gurion University of the Negev, Be’er Sheva, Israel

Areas of Research Interest

Set Theory, Real Analysis, Set Theoretic Analysis: Applications of Set Theory in Real Analysis

Distinction

- 2002 • Kuczma Award (for the best Polish article in functional equations) - for joint article with I. Reclaw, *On the Difference Property of Borel Measurable and (s)-Measurable Functions*, Acta Math. Hungar. 96 (1-2) (2002), 21–25.
- 1999 • Scholarship of the Ministry of National Education, Poland
- Rector’s Award, University of Gdańsk, Poland
- 1996 • Rector’s Award, University of Gdańsk, Poland

Research projects

- 2009 • Grant of the University of Gdańsk, “Uogólnione klasy Baire’a” (“Generalized Baire classes”), BW 5100-5-0157-9 (with I. Reclaw and P. Szuca)
- 2008 • Grant of the University of Gdańsk, “Własności podmiar patologicznych” (“Properties of pathological submeasures”), BW 5100-5-0148-8 (with I. Reclaw and P. Szuca)
- 2007 • Grant of the University of Gdańsk, “Współczynniki i zbiory generowane przez ideały” (“Coefficients and sets generated by ideals”), BW 5100-5-0292-7 (with I. Reclaw, P. Szuca and N. Mrożek)
- 2006 • Grant of the University of Gdańsk, “Kombinatoryczne własności ideałów analitycznych” (“Combinatorial properties of analytic ideals”), BW 5100-5-0204-6 (with I. Reclaw and P. Szuca)
- 2005 • Grant of the University of Gdańsk, “Idealowa zbieżność ciągów i ciągów funkcyjnych” (“Ideal convergence of sequences and functional sequences”), BW 5100-5-0095-5 (with I. Reclaw and P. Szuca)
- 2002–2004 • Grant of the Polish Committee for Scientific Research, “Własność różnicy dla rodzin funkcji rzeczywistych” (“The difference property for families of real functions”), KBN 2 P03A 005 23

List of publications

- 2002 • *On the Difference Property of Borel Measurable and (s)-Measurable Functions*, Acta Math. Hungar. 96 (1-2) (2002), 21-25 (with I. Reclaw)
- 2003 • *On the difference property of the family of functions with the Baire property*, Acta Math. Hungar. 100 (1-2) (2003), 97-104
- *On the difference property of families of measurable functions*, Colloq. Math. 97 (2) (2003), 169–180
- 2005 • *Algebraic sums of sets in Marczewski–Burstin algebras*, Real Anal. Exchange 31 (2005/06), no. 1, 133–142 (with F. Dorais)
- 2007 • *Ideal convergence of bounded sequences*, J. Symbolic Logic 72 (2007), no. 2, 501–512 (with N. Mrożek, I. Reclaw and P. Szuca)
- 2010 • *Rearrangement of conditionally convergent series on a small set*, J. Math. Anal. Appl. 362 (2010), no. 1, pp. 64-71 (with P. Szuca)
- *Density versions of Schur’s theorem for ideals generated by submeasures*, to appear in J. Combin. Theory Ser. A (with P. Szuca)

List of publications (continued)

- *Bolzano-Weierstrass property in functional spaces*, submitted (with N. Mrozek, I. Reclaw and P. Szuca)
- *Ideal version of Ramsey's theorem*, submitted (with N. Mrozek, I. Reclaw and P. Szuca)
- *Uniform density u and I_u -convergence on a big set*, submitted (with P. Barbarski, N. Mrozek and P. Szuca)
- *On (A) , (B) and (C) submeasures on N* , submitted (with P. Szuca)
- *There are measurable Hamel functions*, submitted (with A. Nowik and P. Szuca)

Participation in conferences

- 2007
- XXI International Summer Conference On Real Functions Theory, 13–18 May, 2007, Niedzica, Poland
Talk: *Ramsey's theorem, monotone sequences and convergent sequences*
- 2006
- International Conference on Set-theoretic Topology, 20–25 August, 2006, Kielce, Poland
Talk: *Ideal convergence and quotient Boolean algebras*
 - 10th Prague Topological Symposium, 13–19 August, 2006, Prague, Czech Republic
Talk: *Ideal convergence of bounded sequences*
- 2005
- Analysis and Descriptive Set Theory Workshop, 24–31 July, 2005, Będlewo, Poland
 - XIX International Summer Conference On Real Functions Theory, 22–27 May, 2005, Rowy, Poland
Talk: *I-convergence of bounded sequences*
 - The 33nd Winter School in Abstract Analysis, Section Topology, 29 January – 5 February 2005, Raspenava, Czech Republic
- 2004
- The 32nd Winter School in Abstract Analysis, Section Topology, 31 January – 7 February 2004, Doksy, Czech Republic
Talk: *On Marczewski measurable additive functions*
 - The 32nd Winter School in Abstract Analysis, Section Analysis, 17–24 January 2004, Lhota nad Rohanovem, Czech Republic
Talk: *On Marczewski measurable additive functions*
- 2003
- Summer Symposium in Real Analysis XXVII, June 23–29, 2003, Opava, Czech Republic
Talk: *On the difference property of families of measurable functions*
 - Conference on Real Analysis, 28 May – 1 June, 2003, Rowy, Poland
Talk: *On Marczewski measurable additive functions*
 - Set Theory and its Applications, 22–25 May, 2003, Spała, Poland
Talk: *On algebraic sums of Marczewski measurable sets*
- 2002
- Workshop on Geometry of Banach spaces and infinite dimensional Ramsey theory, 11–15 November, 2002, Toronto, Canada
 - Workshop on Descriptive Set Theory, Analysis and Dynamical Systems, 6–12 October, 2002, Toronto, Canada

Participation in conferences (continued)

- 2001
- Summer Workshop on Set Theory and Set-Theoretic Topology, 7–10 June, 2001, Łądek-Zdrój, Poland
Talk: *On the difference property of Borel measurable and (s)-measurable functions*
 - Conference on Real Analysis, 20–24 May, 2001, Łeba, Poland
Talk: *On the difference property of Borel measurable and (s)-measurable functions*
 - The 29th Winter School in Abstract Analysis, Section Analysis, 3–10 February, 2001, Lhota nad Rohanovem, Czech Republic
Talk: *On the difference property of Borel measurable and (s)-measurable functions*
- 1999
- Summer School on Real Analysis, 23 August–1 September, 1999, Wrocław, Poland
 - Workshop on Set Theory and Applications to Topology and Real Analysis, 17–19 June, 1999, Wierzyca, Poland
 - Winter School on Forcing, 15–20 February, 1999, Szklarska Poręba, Poland
- 1998
- Summer School on Set Theory and Topology, 2–9 July, 1998, Szumin, Poland
 - Workshop on Set Theory and Applications to Topology and Real Analysis, 17–19 April 1998, Wierzyca, Poland