

Curriculum Vitae

B. Miller

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RESEARCH INTERESTS

Descriptive set theory and its connections with combinatorics and ergodic theory

EDUCATION

8/1998–5/2004 University of California, Berkeley: PhD in Mathematics

8/1994–6/1998 California Institute of Technology: BS/MS in Mathematics

EMPLOYMENT

3/2022–Present Career break (to take care of mother)

9/2017–2/2022 Tenured Full Professor, University of Vienna, Austria

3/2016–8/2017 Tenured Associate Professor, University of Vienna, Austria

4/2015–2/2016 Tenure-track Assistant Professor, University of Vienna, Austria

8/2010–3/2015 Tenured Associate Professor, University of Muenster, Germany

7/2007–7/2010 Career break (to take care of father)

7/2004–6/2007 Assistant Professor, University of California, Los Angeles

THIRD-PARTY FUNDING

2017 – 2020 Austrian Science Foundation Grant P29999 (€ 320,000)

2015 – 2018 Austrian Science Foundation Grant P28153 (€ 314,000)

2014 – 2018 German Science Foundation SFB Grant 878 Project A6 continuation (€ 235,000)

2010 – 2014 German Science Foundation SFB Grant 878 Project A6 (€ 294,000)

SELECTED PUBLICATIONS

Minimal definable graphs of definable chromatic number at least three (with R. Carroy, D. Schritterser, and Z. Vidnyánszky)

Forum of Mathematics, Sigma, E7 1–16, **9** (2021)

Dichotomy theorems for families of non-cofinal essential complexity (with J. Clemens and D. Lecomte)

Advances in Mathematics, 285–299, **304** (2017)

Measure reducibility of countable Borel equivalence relations (with C. Conley)

Annals of Mathematics, 347–402, **185 (2)** (2017)

The smooth ideal (with C. Conley and J. Clemens)

Proceedings of the London Mathematical Society, 57–80, **112 (1)** (2016)

The Borel cardinality of Lascar strong types (with I. Kaplan and P. Simon)

Journal of the London Mathematical Society, 609–630, **90** (2) (2014)

Essential countability of treeable equivalence relations (with J. Clemens and D. Lecomte)

Advances in Mathematics, 1–31, **265** (2014)

Descriptive Kakutani equivalence (with C. Rosendal)

Journal of the European Mathematical Society, 179–219, **12** (1) (2010)

SELECTED INVITED LECTURES

Definable cardinals just beyond \mathbb{R}/\mathbb{Q}

European Logic Colloquium (plenary lecture), Vienna (2014)

The smooth ideal

Winter ASL Meeting (session in honor of L. Harrington), Berkeley (2011)

Graph-theoretic dichotomy theorems in descriptive set theory

Eleventh CIRM Workshop in Set Theory (three-lecture minicourse), Luminy (2010)

Forceless, ineffective, powerless proofs of descriptive set-theoretic dichotomy theorems

European Logic Colloquium (plenary lecture), Sofia (2009)

CONFERENCE ORGANIZATION

7/2019 Seventh European Set Theory Conference, University of Vienna, Austria

9/2018 Set Theory Today: A Conference in Honor of Georg Cantor, University of Vienna, Austria

6/2018 Descriptive Set Theory, CBI, EPFL, Switzerland

12/2016 Current Trends in Descriptive Set Theory, ESI, University of Vienna, Austria

10/2012 MALOA Set Theory Research Workshop, University of Muenster, Germany

TEACHING

University of Vienna

Lecturer for graduate seminars in descriptive set theory and measure theory; supervisor for PhD students

University of Muenster

Lecturer for undergraduate and graduate courses and seminars in descriptive set theory, forcing, logic, model theory, recursion theory, and set theory; supervisor for PhD students

University of California, Los Angeles

Lecturer for undergraduate and graduate courses in calculus, complex analysis, linear algebra, logic, multivariable calculus, and set theory; informal supervisor for a PhD student

University of California, Berkeley

Teaching assistant for courses in calculus, differential equations, linear algebra, multivariable calculus, and numerical analysis

California Institute of Technology

Teaching assistant for courses in calculus, differential equations, discrete mathematics, linear algebra, and multivariable calculus