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 9/2017-2/2022 Tenured Full Professor, University of Vienna, Austria 3/2016-8/2017 Tenured Associate Professor, University of Vienna, Austria Tenure-track Assistant Professor, University of Vienna, Austria 8/2010-3/2015 Tenured Associate Professor, University of Vienna, Austria Tenure-track Assistant Professor, University of Muenster, Germany Career break (to take care of father) 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. Schrittesser, 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 semin-
	ars in descriptive set theory, forcing, logic, model theory, rec-
	ursion 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 equa-
	tions, linear algebra, multivariable calculus, and numerical
	analysis
California Institute of Technology	Teaching assistant for courses in calculus, differential equa-
	tions, discrete mathematics, linear algebra, and multivariable

calculus