Curriculum Vitae - Andrea Medini

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Kurt Gödel Research Center
University of Vienna
Augasse 2-6, UZA 1 - Building 2
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Austria

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YEAR OF BIRTH
1983

CITIZENSHIP
Italian

RESEARCH AREAS
General Topology, Set Theory

EDUCATION

Università di Bologna, Italy

Laurea in Mathematics (110/110 with honors, December 2004)
Laurea Specialistica in Mathematics (110/110 with honors, June 2006)

University of Wisconsin - Madison, USA

M.A. in Mathematics (May 2008)
Ph.D. in Mathematics (August 2013)

CURRENT POSITION

Projekt Leiter (Project Leader)

for the FWF grant P 30823 - N35 (€298,578)
Project title: The topology of filters
for the period November 2017 - October 2021
at the Kurt Gödel Research Center

PREVIOUS POSITIONS

Graduate Student and Teaching Assistant

University of Wisconsin - Madison
for the period July 2006 - August 2013

Wissenschaftlicher Mitarbaiter (Scientific Collaborator)

for the FWF grant I 1209 - N25 (€304,006.50)
Project title: General topology and set-theoretic methods
for the period October 2013 - May 2015 and July 2017 - September 2017
at the Kurt Gödel Research Center
Project Leader: Lyubomyr Zdomskyy

Projekt Leiter (Project Leader)

for the FWF grant M 1851 - N35 (€147,020)
Project title: Topological homogeneity and infinite powers
for the period July 2015 - June 2017
at the Kurt Gödel Research Center
Coapplicant: Sy-David Friedman

Publications

1. A. Medini. A non-CLP-compact product space whose finite subproducts are CLP-compact. *Topology Appl.* **157:18** (2010), 2829–2833

2. A. Medini. Products and h-homogeneity. *Topology Appl.* **158:18** (2011), 2520–2527

3. A. Medini, D. Milovich. The topology of ultrafilters as subspaces of 2^ω. *Topology Appl.* **159:5** (2012), 1318–1333

4. A. Medini. Products and countable dense homogeneity. *Topology Proc.* **46** (2015), 135–143

5. A. Medini, L. Zdomskyy. Between Polish and completely Baire. *Arch. for Math. Logic* **54:1-2** (2015), 231–245

6. A. Medini. Countable dense homogeneity in powers of zero-dimensional definable spaces. *Canad. Math. Bull.* **58:2** (2015), 334–349

7. K. Kunen, A. Medini, L. Zdomskyy. Seven characterizations of non-meager P-filters. *Fund. Math.* **231:2** (2015), 189–208

8. A. Medini. Distinguishing perfect set properties in separable metrizable spaces. *J. Symbolic Logic* **81:1** (2016), 166–180

9. A. Medini, J. van Mill, L. Zdomskyy. A homogeneous space whose complement is rigid. *Isr. J. Math.* **214:2** (2016), 583–595

10. A. Medini, L. Zdomskyy. Every filter is homeomorphic to its square. *Bull. Pol. Acad. Sci., Math.* **64:1** (2016), 63–67

11. A. Medini, L. Zdomskyy. Productively Lindelöf spaces of countable tightness. *Houston J. Math.* **43:4** (2017), 1263–1272

12. A. Medini, D. Repovš, L. Zdomskyy. Non-meager free sets and independent families. *Proc. Am. Math. Soc.* **145:9** (2017), 4061–4073

13. A. Medini, J. van Mill, L. Zdomskyy. Infinite powers and Cohen reals. *Canad. Math. Bull.* **61** (2018), 812–821

14. A. Medini. On Borel semifilters. *Topology Proc.* **53** (2019), 97–122

15. R. Carroy, A. Medini, S. Müller. Every zero-dimensional homogeneous space is strongly homogeneous under determinacy. Submitted. Available on `arxiv.org`

16. R. Carroy, A. Medini, S. Müller. Constructing Wadge classes. Submitted.
Available on `arxiv.org`

Teaching

Math 221 Calculus and Analytic Geometry

Summer 2011, TA
Fall 2011, TA for the WES program

Math 222 Calculus and Analytic Geometry

Fall 2006, TA

Math 234 Calculus – Functions of Several Variables

Fall 2010, TA (Teaching evaluation: Superior)
Spring 2013, TA

Math 319 Techniques in Ordinary Differential Equations

Fall 2012, TA (Teaching evaluation: Superior)

Math 171 Calculus with Algebra and Trigonometry I

Fall 2009, TA

Math 217 Calculus with Algebra and Trigonometry II

Spring 2011, TA (Teaching evaluation: Superior)
Spring 2012, TA

Math 210 Topics in Finite Mathematics

Spring 2007, TA
Fall 2007, TA

Math 211 Calculus

Spring 2008, TA
Fall 2008, TA (Teaching evaluation: Superior)
Spring 2009, TA
Spring 2010, TA

VIGRE Summer Enhancement Program in Logic

Summer 2009

International TA Training

Summer 2012
Summer 2013

Scholarships, fellowships

INdAM Scholarship for the academic year 2001/02 (€3,100)

Renewed for the academic year 2002/03 (€4,000)
Renewed for the academic year 2003/04 (€4,000)

INdAM Scholarship for the academic year 2004/05 (€4,000)

Renewed for the academic year 2005/06 (€4,000)

VIGRE Teaching Fellowship for Summer 2009 ($1,500)

Awards

Rotary "Guido Paolucci" Award for the academic year 2005/06 (€500)

Best graduate in Mathematical, Physical and Natural Sciences in Bologna

Selected talks

The topology of ultrafilters as subspaces of 2^ω

AMS Sectional Meeting, session on Set Theory. September 10, 2011
ASL North American Annual Meeting, session on Set Theory. April 2, 2012

Clopen sets in products: CLP-compactness and h-homogeneity

Seminar, Auburn University. March 2, 2012

Countable dense homogeneity and set theory

AMS Sectional Meeting, session on Set Theory and Boolean Algebras. April 13, 2013

Seven characterizations of non-meager P-filters

Spring Topology and Dynamics Conference. March 15, 2014

Dropping Polishness

Summer Conference on Topology and its Applications. July 24, 2014
Seminar, University of Turin. March 6, 2015
Sets and Computations, Singapore. March 31, 2015

Topological homogeneity and infinite powers

Seminar, Technische Universität Wien. March 25, 2015
Semi-plenary talk, Summer Conference on Topology and its Applications. June 24, 2015

Almost all homogeneous Borel spaces are semifilters

Summer Conference on Topology and its Applications. August 4, 2016
Prague-Vienna Set Theory Workshop. October 18, 2016

Homogeneous spaces and Wadge theory

Semi-plenary talk, Summer Conference on Topology and its Applications. July 18, 2018

Topological applications of Wadge theory

Tutorial, to be given at the Winter School in Abstract Analysis, section Set Theory and Topology, from January 25 to February 1, 2020

Peer review activities

Referee work

for Topology and its Applications (5 articles)
for Fundamenta Mathematicae (3 articles)
for Acta Mathematica Hungarica (1 article)
for Commentationes Mathematicae Universitatis Carolinae (1 article)
for the Journal of Symbolic Logic (1 article)
for Topology Proceedings (1 article)

Quick assessment

for the Bulletin of the London Mathematical Society (1 article)

Reviews

for zbMATH (5 articles)
for MathSciNet (3 articles)