

# CURRICULUM VITAE

Michael Temkin

## General Information

Name: Michael Temkin  
Date of birth: November 5, 1974  
Citizenship: Israeli, Russian  
Marital Status: Married + 2  
Military service: 1995-2002  
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## Education

Institution	Degree, Rank	Dates
Moscow High School 57 with intensive study of mathematics	High School Studies	1988/89-1990/91
Moscow University	B.A.	1991/92
Tel-Aviv University	B.A.	1992/93-1993/94
Weizmann institute	M.Sc.	1994/95
M.Sc. awarded at 05/07/1998 (during military service)		
Weizmann institute	Ph.D.	2002/03-2005/2006
Ph.D. awarded at 09/08/2006		

## Positions held

Institution	Position	Dates
Max Planck Institute for Mathematics	Visitor	March - June 2006
University of Pennsylvania	Lecturer in Mathematics	July 2006 - June 2009
Institute for Advanced Study	Member	September 2009 - June 2010
Hebrew University of Jerusalem	Senior Lecturer	from July 2010
Hebrew University of Jerusalem	Associated Professor	from April 2014

## Fellowships, Awards and Grants

- Gold medal at XXXII International Mathematical Olympiad, Sigtuna, Sweden 1991.
- Sir Charles Clore Doctoral Scholarship, 2004-2006.
- Membership at the Institute for Advanced Study, NSF grant No. DMS-0635607, 2009-2010.
- Marie Curie International Reintegration Grant (IRG) No. PIRG07-GA-2010-268182, *Local desingularization of quasi-excellent schemes*, 2010-2014.
- Levitzki Prize in Algebra, 2011 (awarded by Israel Mathematical Union each second year).
- BSF grant No. 2010255, *Factorization problems for quasi-excellent schemes and other geometric categories*, joint with D. Abramovich (Brown University), 2011-2015.
- ISF grant No. 1018/11, *Relative birational geometry and Nagata's Compactification for algebraic spaces and stacks*, joint with I. Tyomkin (Ben Gurion University), 2011-2015.
- Alon Fellowship, 2011-2014.
- BSF grant No. 2014365, *Strong semistable reduction*, joint with D. Abramovich (Brown University) and J. Włodarczyk (Purdue University), 2015-2019.
- ISF grant No. 1159/15, *Ramification theory of valued fields and applications to non-archimedean and birational geometries*, joint with A. Goldberger (Tel Aviv University), 2015-2019.

## Invited talks

- "*On the structure of sum-free sets*". (The talk was given by co-author.) Conference "Structure Theory of Set Addition", CIRM, France, June 1993.
- "*On local properties of non-Archimedean spaces*". Conference "Rigid Geometry". University of Münster, Münster, Germany, March 2000.
- "*Desingularization of quasi-excellent schemes over  $\mathbf{Q}$* ". Workshop on Motivic Integration and its Interactions with Model Theory and Non-Archimedean Geometry. ICMS, Edinburgh, Scotland, May 2008.
- "*Inseparable local uniformization and analytic fields*". Advanced School and Workshop on p-adic Analysis and Applications. The Abdus Salam International Center, Trieste, Italy, September 2009.

- *"Inseparable local uniformization"*. SING 2010 – Resolution of Singularities Problems. A conference in honor of Vincent Cossart. Tordesillas, Spain, March 2010.
- *"Inseparable local uniformization"*. Second International Conference and Workshop on Valuation Theory. Segovia/El Escorial, Spain, July 2011.
- *"Desingularization of Quasi-excellent Schemes of Characteristic Zero"*. Resolution of Singularities and Related Topics. Congress in Honor of the 80th Birthday of Heisuke Hironaka. Tordesillas, Spain, September 2011.
- *"Stable modification of relative curves"*. Galois Covers and Deformations, University of Bordeaux 1, Bordeaux, France, June 2012.
- *"Berkovich analytic spaces and tubular descent"*. Workshop "Non-archimedean Analytic Geometry", Oberwolfach, Germany, November 2012.
- *"Wild coverings of analytic curves"*. Conference "Algebraic, Analytic and Tropical Geometry", Ein Gedi, Israel, May 2013.
- *"Metrization of the sheaves of differential forms on Berkovich spaces"*. Workshop "Regensburg days on non-archimedean geometry", Regensburg, Germany, October 2013.
- *"Twisted harmonic functions on Berkovich curves"*. Conference "Complex-algebraic aspects of tropical geometry", Bernoulli Center, Lausanne, Switzerland, March 2014.
- *Metric uniformization of maps between Berkovich curves*. Conference "Tropicalization, Realization, and Algebraic-Tropical Correspondence", Eilat, Israel, October 2014.
- *"Metrization of differential pluriforms on Berkovich spaces"*. Simons symposium "Non-archimedean and Tropical Geometry", Simons foundation, Puerto-Rico, USA, February 2015.
- *"Metrization of differential pluriforms on Berkovich analytic spaces"*. Workshop "Tropical Aspects in Geometry, Topology and Physics", Oberwolfach, Germany, April 2015.
- *"Wild covers of Berkovich curves"*. Conference "Non-Archimedean Geometry and its Applications", University of Michigan, Ann Arbor, USA, June 2015.
- *"Resolution by alterations"*. Conference "Singular Landscapes" in honor of Bernard Teissier's 70th birthday, Aussois, France, June 2015.
- *"Wild coverings of Berkovich curves"*. Conference "Non-archimedean analytic geometry: theory and practice", University of French Polynesia, Papeete, French Polynesia, August 2015.

- "*Wild coverings of Berkovich curves*". Conference in honor of Arthur Ogus on the occasion of his 70th birthday, IHES, Bures-sur-Yvette, France, September 2015.
- "*Desingularization by  $\text{char}(X)$ -alterations*". Workshop "Non-Archimedean Geometry and Applications", Oberwolfach, Germany, December 2015.
- "*On recent advances in the theory of valued fields and some applications*". Workshop "Two approaches towards local uniformization and resolution of singularities in characteristic  $p > 0$ ", Institut Mittag-Leffler, Sweden, May 2016.

## Some other talks

- "*On local properties of non-Archimedean spaces II*". Conference on *p-adic analysis and arithmetic algebraic geometry*, Weizmann Institute, March 2002.
- "*Riemann-Zariski spaces*". Colloquium talk, Hebrew University of Jerusalem, January 2009.
- "*Resolution of singularities*". Colloquium talk, Hebrew University of Jerusalem, January 2012.
- "*Resolution of singularities*". Colloquium talk, Technion – Israel Institute of Technology, June 2012.
- Talks at seminars related to algebraic geometry and number theory including the following institutions: Weizmann Institute, Hebrew University, University of Pennsylvania, Princeton University, Columbia University, MIT, Université Paris-Sud 11 (Orsay), University of Chicago, Brown University.

## Other Professional Activities

- Assistant in Arizona Winter School project by B. Conrad "*Algebraic spaces over non-archimedean fields*", University of Arizona, March 2007.
- I gave a mini course "Introduction to Berkovich analytic spaces" in summer school "Berkovich spaces", at Institut de Mathématiques de Jussieu, Paris, June/July 2010.
- I gave a mini course "Introduction to Berkovich analytic spaces" in summer school "Algebraic geometry" of Bogomolov's laboratory at Moscow High School of Economics, Yaroslavl', July 2015.