

# Vincent Guingona

[guingona@math.bgu.ac.il](mailto:guingona@math.bgu.ac.il)

304 Highland Pkwy, Apt 4  
Tonawanda, NY 14223

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## Employment History:

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<b>Postdoctoral Research Fellow</b>	Ben-Gurion University of the Negev	August 1, 2014 to Present
<b>Visiting Assistant Professor</b>	University of Notre Dame	July 1, 2011 to June 30, 2014
<b>Teaching and Research Assistant</b>	University of Maryland	August 2005 to May 2011

## Education:

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<b>Ph.D. in Mathematics</b>	University of Maryland	May 19, 2011
<b>Thesis:</b>	<i>On definability of types in dependent theories</i>	
<b>Advisor:</b>	Dr. M. Chris Laskowski	
<b>B.S. in Mathematics with Honors</b>	University of Chicago	June 11, 2005

## Publications:

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- On VC-density in VC-minimal theories. Submitted.
- A local characterization of VC-minimality. With Uri Andrews. Submitted.
- On a common generalization of Shelah's 2-rank, dp-rank, and o-minimal dimension. With Cameron D. Hill. *Ann. Pure Appl. Logic*. To appear.
- On VC-density over indiscernible sequences. With Cameron D. Hill. *Math. Logic Quart.*, **60** (2014), 59-65.
- On VC-minimal fields and dp-smallness. *Arch. Math. Logic*, **53** (2014), 503-517
- Convexly orderable groups and valued fields. With Joseph Flenner. *J. Symbolic Logic*, **79** (2014), 154-170.
- Canonical forests in directed families. With Joseph Flenner. *Proc. Amer. Math. Soc.*, **142** (2014), 1849-1860.
- On VC-minimal theories and variants. With M. Chris Laskowski. *Arch. Math. Logic*, **52** (2013), 743-758.
- On uniform definability of types over finite sets. *J. Symbolic Logic*, **77** (2012), 499-514.
- Dependence and isolated extensions. *Proc. Amer. Math. Soc.*, **139** (2011), 3349-3357.

## Invited Talks:

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<i>On VC-minimal theories</i>	UC Berkeley Model Theory Seminar	Berkeley, CA	March 26, 2014
<i>VC-density, dp-rank, and op-dimension</i>	Carnegie Mellon Model Theory Seminar	Pittsburgh, PA	November 11, 2013
<i>On VC-minimal fields</i>	Midwest Model Theory Day	Chicago, IL	October 22, 2013

### Invited Talks (Continued):

<i>On classifying VC-minimal theories</i>	Hebrew University Logic Seminar	Jerusalem, Israel	March 13, 2013
<i>VC-density over indiscernible sequences</i>	Very Informal Gathering of Logicians	Los Angeles, CA	February 1, 2013
<i>On convexly orderable groups and valued fields</i>	CUNY Logic Workshop	New York, NY	October 26, 2012
<i>VC-density over indiscernible sequences</i>	Ohio State Logic Seminar	Columbus, OH	April 10, 2012
<i>On VC-minimal theories</i>	2012 AMS Spring Western Sectional Meeting	Honolulu, HI	March 3, 2012
<i>Recent developments on VC-minimal theories</i>	UW Madison Logic Seminar	Madison, WI	February 14, 2012
<i>On uniform definability of types over finite sets</i>	2011 ASL North American Meeting	Berkeley, CA	March 26, 2011
<i>Definability of types and compression schemes</i>	UIC Logic Seminar	Chicago, IL	February 1, 2011
<i>Definability of types and VC-density</i>	McMaster University Model Theory Seminar	Hamilton, ON, Canada	January 18, 2011
<i>On definability of types in dependent theories</i>	2011 MAA/AMS Joint Math Meetings	New Orleans, LA	January 7, 2011
<i>Compression schemes and definability of types</i>	George Washington University Logic Seminar	Washington, DC	October 6, 2010, October 13, 2010
<i>Dependence and definability of types</i>	Notre Dame Logic Seminar	South Bend, IN	April 15, 2010

### Contributed Talks:

<i>On VC-minimal theories</i>	Latin American Symposium on Mathematical Logic	Bogotá, Colombia	June 4, 2012
<i>On VC-minimality in algebraic structures</i>	2012 ASL North American Meeting	Madison, WI	April 3, 2012
<i>On VC-minimal theories and variants</i>	University of Maryland Logic Seminar	College Park, MD	October 26, 2010
<i>UDTFS in dp-minimal theories</i>	University of Maryland Logic Seminar	College Park, MD	May 11, 2010
<i>Dependence, isolated extensions, and definability of types</i>	2010 ASL North American Meeting	Washington, DC	March 17, 2010
<i>On definability of types in dependent theories</i>	University of Maryland Logic Seminar	College Park, MD	September 8, 2009

## Conferences Attended:

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<b>2014 ASL North American Meeting</b>	Boulder, CO	May 2014
<b>Model Theory MSRI Semester</b>	Berkeley, CA	January to May 2014
<b>2014 AMS/MAA Joint Math Meetings</b>	Baltimore, MD	January 2014
<b>Model Theory 2013</b>	Ravello, Italy	June 2013
<b>2013 ASL North American Meeting</b>	Waterloo, ON, Canada	May 2013
<b>Very Informal Gathering of Logicians</b>	Los Angeles, CA	February 2013
<b>Workshop on Model Theory</b>	Oberwolfach, Germany	January 2013
<b>Latin American Symposium on Math. Logic</b>	Bogotá, Colombia	June 2012
<b>2012 ASL North American Meeting</b>	Madison, WI	April 2012
<b>2012 AMS Spring Western Section Meeting</b>	Honolulu, HI	March 2012
<b>Neostability Workshop</b>	Banff, AB, Canada	January and February 2012
<b>2011 ASL North American Meeting</b>	Berkeley, CA	March 2011
<b>2011 AMS/MAA Joint Math Meetings</b>	New Orleans, LA	January 2011
<b>AMS MRC Model Theory of Fields</b>	Snowbird, UT	June 2010
<b>2010 ASL North American Meeting</b>	Washington, DC	March 2010
<b>ESF Research Conference on Model Theory</b>	Będlewo, Poland	August 2009
<b>Fall 2008 MAMLS Meeting</b>	New Brunswick, NJ	October 2008
<b>2008 ASL North American Meeting</b>	Irvine, CA	March 2008
<b>2007 ASL North American Meeting</b>	Gainesville, FL	March 2007

## Other Research Experience:

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<b>Referee for the Notre Dame Journal of Formal Logic</b>		Fall 2011 to Fall 2013
<b>Organizer for the Notre Dame Logic Seminar</b>		Fall 2013
<b>Organizer for the Maryland Logic Seminar</b>		Fall 2010 and Spring 2011
<b>University of Chicago Summer REU</b>		Summer 2003 and 2004

## Classroom Experience:

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<b>NIP Theories and Computational Learning Theory</b>	Lecturer	Notre Dame	Fall 2013
A graduate-level topics class of my own design which gave applications of modern model theory to topics in computer science.			
Teaching Evaluations: <i>Overall Effectiveness of Teaching</i>			4.7 / 5
<b>Beginning Logic</b>	Lecturer	Notre Dame	Fall 2013
Teaching Evaluations: <i>Overall Effectiveness of Teaching</i>			4.4 / 5
<b>Calculus III</b>	Lecturer	Notre Dame	Fall 2012 and Spring 2013
Teaching Evaluations: <i>Overall Effectiveness of Teaching</i>			4.4 / 5

## Classroom Experience (Continued):

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<b>Calculus B</b>	Lecturer	Notre Dame	Spring 2012
<b>Calculus A</b>	Lecturer	Notre Dame	Fall 2011
<b>Mathematical Logic II</b>	Lecturer	Maryland	Spring 2011
Filled in for a professor for a graduate-level class in mathematical logic. Lectured for three weeks, prepared one homework assignment, and aided in grading the final.			
<b>Elementary Calculus I</b>	TA	Maryland	Fall 2006 and Fall 2009
<b>Linear Algebra</b>	Grader	Maryland	Spring 2008
<b>Calculus II</b>	TA	Maryland	Spring 2007
<b>Calculus, Studies in Mathematics</b>	TA	U Chicago	Fall 2003 to Spring 2005

## Advising and Mentoring:

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<b>Directed a Reading Group on Discrete Geometry</b>		Notre Dame	Fall 2013
Advised a group of ten advanced undergraduates in reading through "Lectures in Discrete Geometry" by Jiří Matoušek.			
<b>Advisor for the Undergraduate Math Club</b>		Maryland	Fall 2007
Advised a math club of about 20 undergraduates with weekly meetings. Participated in all meetings and helped organize projects and events. Brought in graduate student speakers.			
<b>Mentor for the Young Scholars Program</b>		U Chicago	Fall 2004 and Spring 2005
NSF-funded program at the University of Chicago run by Professor Paul Sally. Helped high school students learn about advanced mathematics, including number theory and field theory. The program met every other Saturday and daily over the summer.			

## Awards:

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<b>Kreitman Post-Doctoral Scholarship</b>	October 2014 to August 2015
<b>VIGRE Fellowship</b>	August 2005 to June 2009
<b>Research Assistant Fellowship</b>	Summer 2008, Summer 2009, Spring 2010, Summer 2010, Fall 2010, and Spring 2011
<b>Dean's List at U Chicago</b>	2001-02, 2002-03, 2003-04, 2004-05

## Additional Information:

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**Citizen of the United States**

**Computer Proficiency:** C++, Java, Mathematica, LaTeX, Inkscape, Blender, and Microsoft Office.

**Professional Memberships:** Association for Symbolic Logic