

## Solomon Vishkautsan

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CONTACT INFORMATION	Scuola Normale Superiore Piazza dei Cavalieri, 7 56126 Pisa, Italy	e-mail: <a href="mailto:wishcow@gmail.com">wishcow@gmail.com</a> e-mail: <a href="mailto:solomon.vishkautsan@sns.it">solomon.vishkautsan@sns.it</a> homepage: <a href="http://www.wishcow.com">http://www.wishcow.com</a> phone: +39(324)667-9186
PERSONAL INFORMATION	Birth Date: 29 April 1979 Citizenship: Israel	
ACADEMIC EMPLOYMENT	2014–pres.    Postdoctoral fellow, Scuola Normale Superiore, Pisa, Italy. ERC-Advanced Grant “Diophantine Problems”. Host: Umberto Zannier 2013–2014    Postdoctoral fellow, Ben-Gurion University, Israel. Host: Dmitry Kerner and Ilya Tyomkin	
EDUCATION	2008–2013    Ph.D. in Mathematics, Bar-Ilan University, Israel. Thesis title: Residual periodicity on algebraic varieties. Advisors: Boris Kunyavskii, Tatiana Bandman. Date received: June 2013 2004–2007    M.Sc in Mathematics, Bar-Ilan University, Israel. Thesis title: Ping-pong partners in $\mathrm{PSL}_n(\mathbb{Z})$ . Advisor: Gregory Soifer. Summa Cum Laude 1997-2000    B.Sc in Mathematics and Computer Science, Tel Aviv University.	
PUBLICATIONS	<b>Journal publications</b> Residual periodicity on the Markoff Surface. <i>Atti Accad. Naz. Lincei Rend. Lincei Mat. Appl.</i> , Vol. <b>27</b> (2016), pp. 25-35.  Arithmetic dynamics on smooth cubic surfaces. <i>New York J. Math.</i> <b>20</b> (2014).  Ping-pong partners in $\mathrm{PSL}_n(\mathbb{Z})$ . (with Gregory Soifer.) <i>Communications in Algebra</i> , Vol. <b>38</b> , Issue 1 (2010), 288-301.  <b>Recent preprints</b> Scarcity of cycles for rational functions over a number field. (with Jung Kyu Canci.) <i>Submitted</i> (2016). arXiv:1604.03965.  Quadratic maps with a periodic critical point of period 2. (with Jung Kyu Canci.) <i>Submitted</i> (2015). arXiv:1510.04726.  <b>Preprints in preparation</b> Quadratic maps with a periodic critical point of period 3.  Moduli spaces of rational maps of degree 2 with a marked periodic point. (with Jung Kyu Canci.)  Residual periodicity of rational maps of the projective line.  <b>PhD Thesis</b> <i>Residual periodicity on algebraic varieties</i> , available at <a href="http://www.wishcow.com">http://www.wishcow.com</a>	

RESEARCH INTERESTS		Arithmetic dynamics, arithmetic and diophantine geometry, number theory, algebraic geometry.
HONORS AND AWARDS	2008–2013 2007	Bar-Ilan University President PhD Scholarship M.Sc summa cum laude
CONFERENCE AND SEMINAR TALKS	Aug 2016 Apr 2016  Jan 2016 Jan 2016 Jan 2016  Dec 2015 Dec 2015 Jun 2015  Dec 2014 Nov 2014 Jan 2014  Jun 2013 May 2013 Apr 2013  Mar 2013  Feb 2013 Dec 2012	Workshop on Arithmetic Dynamics, Universität Basel (invited speaker). Dynamics and Graphs over Finite Fields: Algebraic, Number Theoretic and Algorithmic Aspects, CIRM, Luminy (special session lecture). Groups, Dynamics and Related Topics Seminar, Technion. Number Theory Seminar, Hebrew University of Jerusalem. Algebraic Geometry and Number Theory Seminar, Ben-Gurion University. Algebra seminar, Bar-Ilan University. Algebra seminar, Michigan State University. Summary on ERC scientific activities in Diophantine problems at SNS, Cetraro. Algebra & geometry seminar, Universität Basel. Number theory seminar, Scuola Normale Superiore. 3rd Swiss-French workshop on algebraic geometry, Enney, Switzerland. Number theory seminar, Bar-Ilan University. Algebra seminar, Bar-Ilan University. Advances in number theory and dynamical systems, Bristol University. Seminar in number theory and algebraic geometry, Ben-Gurion University. Seminar in real and complex geometry, Tel Aviv University. ENI algebraic geometry seminar, Bar-Ilan University.
POSTERS PRESENTED	Dec 2015	“Quadratic maps with a periodic critical point,” RTG Workshop in Arithmetic Dynamics, University of Michigan.
TEACHING EXPERIENCE	2013–2014 2013–2014 2008–2013  2013	Lecturer, Ben-Gurion University Courses: Calculus I Lecturer, Bar-Ilan University Courses: Game Theory, Discrete Mathematics Teaching Assistant, Bar-Ilan University Courses: Abstract Algebra 1, 2 & 3, Discrete Mathematics, Topology Teaching Assistant, College of Management – Academic Studies, Israel Courses: Calculus I, Linear Algebra I

WORKSHOP AND CONFERENCE PARTICIPATION	Apr 2016	Renormalization in Dynamics, Centro di Ricerca Matematica Ennio De Giorgi, Pisa.
	Dec 2015	RTG Workshop in Arithmetic Dynamics, University of Michigan.
	Sep 2015	Analytic number theory and Diophantine geometry, Hannover University.
	Aug 2015	Arithmetic 2015: Silvermania, Brown University.
	Jun 2015	Summary on ERC scientific activities in Diophantine problems at SNS, Cetraro.
	May 2015	Final ERC meeting in Diophantine Geometry, Rome.
	May 2015	Workshop on arithmetic geometry, Basel.
	Apr 2015	Colloquium GRIFGA 2015, Gargnano del Garda.
	Jan 2014	3rd Swiss-French workshop on algebraic geometry, Enney, Switzerland.
	Nov 2013	Sage Days 55 workshop: Arithmetic and complex dynamics, Florida Institute of Tech.
	Apr 2013	Advances in number theory and dynamical systems, Bristol University.
	Mar 2013	New trends in arithmetic and geometry of algebraic surfaces, CIRM, Marseilles.
	Jul 2009	Rational points on varieties workshop, The Hebrew University, Jerusalem.
	May 2008	Conference in honor of Prof. Friedrich Hirzebruch on the occasion of his 80th birthday, Bar-Ilan University.
SERVICE TO MATHEMATICAL COMMUNITY	Contributor to SageMath Open-Source Mathematical Software System.	
PROGRAMMING SKILLS	<b>Mathematical software systems</b> SageMath, Magma, Maple, Singular, Macaulay, Matlab	
	<b>Programming languages</b> Python, C++, C, Java, Javascript, PHP	
OTHER EMPLOYMENT	2006–2008	YSR, Benei Zion, Israel Start-up developing social Web2.0 sites Co-founding partner
	2000–2006	Israeli Defense Forces (Army) Last service rank: Captain (Honorably discharged)
LANGUAGES	Hebrew (mother tongue), English (fluent), Russian (basic), French (basic), Italian (basic).	
REFERENCES	Umberto Zannier (Scuola Normale Superiore di Pisa, Italy): <a href="mailto:umberto.zannier@sns.it">umberto.zannier@sns.it</a> Boris Kunyavskii (Bar-Ilan University, Israel): <a href="mailto:kunyav@macs.biu.ac.il">kunyav@macs.biu.ac.il</a> Tatiana Bandman (Bar-Ilan University, Israel): <a href="mailto:bandman@macs.biu.ac.il">bandman@macs.biu.ac.il</a> Gregory Soifer (Bar-Ilan University, Israel): <a href="mailto:soifer@math.biu.ac.il">soifer@math.biu.ac.il</a> Igor Dolgachev (University of Michigan): <a href="mailto:idolga@umich.edu">idolga@umich.edu</a> Eugenii Shustin (Tel Aviv University, Israel): <a href="mailto:shustin@post.tau.ac.il">shustin@post.tau.ac.il</a> Yuri Zarhin (Pennsylvania State University): <a href="mailto:zarhin@math.psu.edu">zarhin@math.psu.edu</a>	
TEACHING REFERENCES	Uzi Vishne (Bar Ilan University, Israel): <a href="mailto:vishne@math.biu.ac.il">vishne@math.biu.ac.il</a>	