CV - Solomon Vishkautsan

Date: January 5th, 2020

A. Personal Details

- o Full name: Solomon Vishkautsan

- o Date of birth (month/year): April 1979

- o Country of birth: Moldova (Former USSR)

- o Date of immigration to Israel: 01.03.1980

- o Citizenship: Israel

- o ID (or passport) number: 011425451

- o Family status: Married + 3

- o Full home address: Haagam, Yesud Hamaala, Israel 1210500

- o Cell phone number: +972547512218

- o Work: Tel-Hai Academic College

- o E-mail address: wishcow@telhai.com

B. Higher Education

1997-2000: Bachelor of Science in double major program in Mathematics and Computer Science, Faculty of Exact Sciences, Tel Aviv University.

2004-2007: Master of Science in Pure Mathematics, Department of Mathematics, Bar-Ilan University, Israel.

Advisor: Gregory Soifer

Date received: June 28, 2007

Summa cum laude

2008-2013   PhD in Pure Mathematics, Department of Mathematics, Bar-Ilan University, Israel.

Advisors: Boris Kunyavskii, Tatiana Bandman.

Date received: June 20, 2013

C. <u>Academic Appointments and Academic Administrative Positions in Institutions of Higher Education</u>

2013-2014: Postdoctoral fellow, Department of Mathematics, Ben-Gurion University, Israel.

Hosts: Dmitry Kerner and Ilya Tyomkin

2014-2016: Postdoctoral fellow, ERC-Advanced Grant ``Diophantine Problems'', Scuola Normale Superiore, Pisa, Italy.

Host: Umberto Zannier

2016-2017: Postdoctoral fellow, Minerva Foundation fellowship, University of Bayreuth, Germany.

Host: Michael Stoll

2017-pres: Lecturer, Tel-Hai Academic College, Israel.

D. <u>Teaching</u>

2008-2013: Teaching Assistant, Department of Mathematics, Bar-Ilan University.

Courses: Abstract Algebra 1, Abstract Algebra 2, Abstract Algebra 3, Discrete Mathematics (for computer science), Topology.

2013 Teaching Assistant, College of Management - Academic Studies, Israel.

Courses: Calculus I (for computer science), Linear Algebra I (for computer science)

2013-2014: Lecturer, Department of Mathematics, Bar-Ilan University.

Courses: Game Theory (master course in Financial Math.), Discrete Mathematics.

2013-2014: Lecturer, Department of Mathematics, Ben-Gurion University.

Courses: Calculus I (for computer science).

2017-pres: Lecturer, Tel-Hai Academic College.

Courses: Probability, Modern Algebra, Calculus 1 & 2 (for biology), Calculus 2 (for computer science), Linear Algebra (for computer science).

E. Supervision of Graduate Students

N/A

F. Research Grants   In chronological order (from old to new)

2008-2013: Milgat Hanasi of Bar-Ilan University

Total amount: 40,000 NIS

G. Awards and Fellowships

2016-2017: Minerva fellowship foundation.

Total amount: 25000 Euros.

H. Active Participation in Conferences

Apr 2013: Advances in number theory and dynamical systems, Bristol University.

Title: Residual periodicity on algebraic varieties.

Jan 2014: 3rd Swiss-French workshop on algebraic geometry, Enney, Switzerland.

Title: Arithmetic dynamics and residual periodicity of birational automorphisms of cubic surfaces.

Jun 2015: Summary on ERC scientific activities in Diophantine problems at SNS, Cetraro.

Title: Rational functions with a periodic critical point.

Dec 2015: RTG Workshop in Arithmetic Dynamics, University of Michigan.

Title: Quadratic maps with a periodic critical point (poster)

Apr 2016: Dynamics and Graphs over Finite Fields: Algebraic, Number Theoretic and Algorithmic Aspects, CIRM, Luminy.

Title: Rational periodic points of rational functions (special session lecture).

Aug 2016: Workshop on Arithmetic Dynamics, Universitaet Basel, Switzerland.

Title: Scarcity of periodic points for rational functions over a number field (invited speaker).

Sept 2019: School (and Workshop) on Diophantine Geometry and Special Varieties.

Title: The field of definition of the iterates of a rational function

I. <u>Non-Academic Activity & Positions</u>

2000-2006:   Army service (Intelligence)

          Last service rank: Captain

2006-2008:   Wall-soft, Benei Zion, Israel

          Software Consultant

J. <u>Attached Documents</u>

Photocopies of the following certificates (for first appointment only):

o Doctorate, Master's, Bachelor's

o Other certification and letters of recommendation

K. <u>Publications</u>

1. M.A./M.Sc. thesis (subject, institution, supervisor, date of receipt of degree, cite honors)

   Title: Ping-pong partners in PSLn(Z)

   Institution: Bar-Ilan University

   Supervisor: Gregory Soifer

   Date received: June 28, 2007

   Summa cum laude

2. Ph.D. thesis

   Title: Residual periodicity on algebraic varieties

   Institution: Bar-Ilan University

   Supervisors: Boris Kunyavskii and Tatiana Bandman

   Date received: June 20, 2013

3. Books: N/A

4. Edited books: N/A

5. Articles in refereed journals (title, name of journal, language publisher, year)

1) Soifer G., **Vishkautsan S.** 2010. "Simultaneous ping-pong partners in PSLn(Z)." *Communications in Algebra* 38: 288-301. (Ranked 32/94 in ALGEBRA AND NUMBER THEORY; Quartile in Category Q2); CI – 0.

2) **Vishkautsan S.** 2014. "Arithmetic dynamics on smooth cubic surfaces". *New York J. Math.* 20. (Ranked 93/423 in MATHEMATICS (MISCELLANEOUS); Quartile in Category Q1); CI – 1.

3) **Vishkautsan S.** 2016. "Residual periodicity on the Markoff Surface." *Naz. Lincei Rend. Lincei Mat. Appl.* 27: 25-35. (Ranked 58/423 in MATHEMATICS (MISCELLANEOUS); Quartile in Category Q1); CI – 0.

4) Canci J.K., **Vishkautsan S.** 2017. To appear. "Quadratic maps with a periodic critical point of period 2." *Int. J. Number Theory.* (Ranked 24/94 in ALGEBRA AND NUMBER THEORY; Quartile in Category Q2); CI – 2.

5) Canci J.K., **Vishkautsan S.** 2017. To appear. "Scarcity of cycles for rational functions over a number field." *Trans. Amer. Math. Soc.* (Ranked 25/423 in MATHEMATICS (MISCELLANEOUS); Quartile in Category Q1); CI – 5.

6) **Vishkautsan S.** 2019. "Quadratic rational functions with a rational periodic critical point of period 3." *J. Théor. Nombres Bordeaux.* 31.1 (2019): 49-79. (Ranked 72/94 in ALGEBRA AND NUMBER THEORY; Quartile in Category Q4); CI – 0.

7) Canci J.K., Troncoso S., **Vishkautsan S.** 2019. "Scarcity of finite orbits for rational functions over a number field." *Acta Arith.* 190 (2019), 221-237. (Ranked 37/94 in ALGEBRA AND NUMBER THEORY; Quartile in Category Q2); CI – 0.

6. Articles or chapters in refereed books: N/A

7. Refereed conference proceedings: N/A

8. Other articles (in collections or non-refereed journals): N/A

9. Articles in preparation:

1) Veneziano F., **Vishkautsan. S.** "The field of iterates of a rational function".

L. <u>Miscellaneous</u>

1) Reviewer for MathSciNet (since 2016)

2) Contributor to SageMath open source mathematical software system (since 2014)