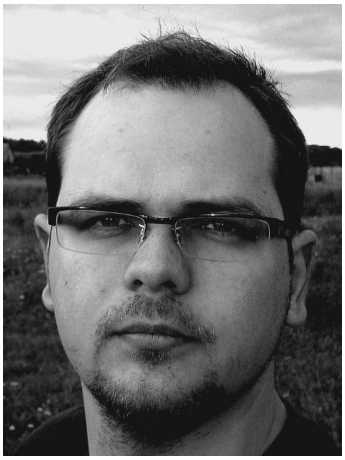
Curriculum Vitae – Jonas Jankauskas



Contact Information

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I was born and raised in Pajiešmeniai, a small village in the northern part of Lithuania near Pasvalys. I spent there my first 18 years with my parents until I moved to Vilnius for my university studies.

I was fascinated with mathematics at the gymnasium in Pasvalys. I obtained a BSc and a MSc in mathematics at the Faculty of Mathematics and Informatics of Vilnius University. Later, I completed doctoral studies there under the supervision of professor A. Dubickas. On 5th October 2012 I have successfully defended my doctoral thesis *Heights of Polynomials*. My thesis was awarded a nomination by Polish Mathematical Society in the 5-th edition of Stefan Banach prize and a diploma by the President of Lithuania.

During my graduate studies, I did the research and taught courses for students in Vilnius University as a teaching assistant in the Department of Probability Theory and Number Theory. In 2012 I moved to Canada for a one year postdoctoral fellowship with P. Borwein and S. Choi at Simon Fraser University. From 2014 to 2015 I held a 2 year postdoctoral appointment at the University of Waterloo under the supervision of C. Stewart and K. G. Hare. As of 2016, I live in Austria. I am a post-doc at MU Leoben, Austria, where I work with J. Thuswaldner.

In my free time, I socialize with my friends and colleagues, I travel and I do photography.

Research

During my PhD years, I was interested how the different heights of polynomial P (*the naive height*, *the length*, *the Mahler measure*, the L^p norm) affect various properties of polynomials and their roots. I have investigated the zero sets of integer polynomials with restricted coefficients. In Canada, I studied linear relations among conjugate algebraic numbers, various arithmetical properties of Pisot numbers and interlacing patterns among roots of polynomials that occur in the Pisot–Salem correspondence. My current research in Austria is focused on the number systems, almost linear discrete dynamics and fractal attractors associated to these systems.

Scientific collaboration

In the course of my research work I had a number of successful collaborations with professors P. Borwein, S. Choi, K. G. Hare, S. Akiyama, my advisor A. Dubickas, my colleagues P. Drungilas, J. Šiurys, C. Samuels and H. Ganguli.

Education

Doctoral degree in *Mathematics*, Vilnius University, 2008 – 2012.

Supervisor: Professor Artūras Dubickas
Thesis title: Heights of Polynomials
Defended on: October 5 , 2012.

Academic degrees received in Vilnius University:

Master in *Mathematics*, (Magna Cum Laude), 2008.
Bachelor in *Mathematics and Applications of Mathematics*, (Cum Laude), 2007.

Elementary, Secondary and High Schools:

Petras Vileišis Gymnasium in Pasvalys (graduated with honours), 1995–2003.
I attended classes with strengthened teaching of Mathematics, Physics and Informatics.
Pajiešmeniai Primary School, 1992–1995.
Lėvens Primary School, 1991.

Research experience

Research positions in academic institutions

Post–doctoral fellow at Montanuniversität Leoben, Mathematik und Statistik, Leoben, Styria, Austria, from 12 January 2016 – present.
Post–doctoral fellow at the University of Waterloo (UW), Dept. of Pure Mathematics, Waterloo, Ontario, Canada, 1 January 2014 – 30 December 2015.
Post–doctoral fellow at Simon Fraser University, Department of Mathematics, Burnaby, British Columbia, 1 November 2012 – 30 December 2013.
Visiting researcher at IRMACS Centre, SFU, 1 September 2010 – 30 January 2011.
Senior research fellow at VU MIF, 2013 – 2015.

Teaching experience

Teaching positions and courses

University of Waterloo, 2014 – present, *postdoctoral instructor*
Math-128 (Calculus-II for Science students), Winter 2014
Math-115 (Linear Algebra for Engineering), Spring 2014.
Math-215 (Linear Algebra for Electrical and Computer Engineers), *coordinator*, Winter and Fall 2015.

Simon Fraser University, 2012 – 2013, *postdoctoral instructor*:
Math-152 (Calculus-II for Science students), Spring and Summer 2013.

Vilnius university, Faculty of Mathematics and Informatics, 2005–2012.
Laboratory assistant, Department of Didactics of Mathematics and Informatics, 2005–2008.
Assistant Instructor, Department of Probability Theory and Number Theory, 2008–2012.
I conducted tutorials for the students of the faculty of Mathematics and Informatics and the faculty of Physics in: Higher Mathematics, Algebra and Geometry, Algebra I – II, Discrete Mathematics, Functional Analysis–I.

ISM University (Vilnius branch):
Calculus with extended practice, assistant instructor, Fall 2005–2008
Discrete Mathematics, instructor, Spring 2007.
Applied Mathematics for Social Sciences, assistant instructor, (Fall 2011).

Institute of Mathematics and Informatics:
Laboratory assistant for the Section of Mathematical Logic, 2007.

Grants and projects

Fractals and Words: Topological, Dynamical, and Combinatorial Aspects, Austrian Science Fund (FWF) project P27050.
Sequences of Algebraic numbers and their Heights, Research Council of Lithuania (RCL), MIP-068/2013/LSS-110000-740, 2013 – 2015.
Visits of PhD Students to Foreign Science Centers, RCL & EU structural funds, VP1-3.1-ŠMM-01-V-01-002, 2010 – 2011.
Algebraic numbers and distribution modulo 1, Lithuanian-French *Gilibert* project Nr. SUT-441, 2007 – 2008.

Professional service

Referee for the journals: *Mathematics of Computation*, *Journal of Number Theory*, *Central European Journal of Mathematics*, *Uniform Distribution Theory*, *Discrete Mathematics & Theoretical Computer Science*, *Lietuvos Matematikos Rinkinys*, *Šiauliai Mathematical Seminar*.

Prizes and Awards

Nomination in the 5-th edition of *the Stefan Banach prize* for the best mathematical thesis by Polish Mathematical Society, 2013.
Diploma by the President of Lithuania for one of the best thesis produced in Lithuanian universities, 2013.
Prize for the best research publication among the young scientists, 2014.
Prize for the best student research publication by Lithuanian Academy of Sciences, 2008.
A honorable mention in Lithuanian Mathematical Olympiad, 2002.
Various prizes for successful participation in regional school contests in Mathematics, Physics, Chemistry and Informatics, 2000–2003.

Other activities

My work with school and university students

A participant of

Vojtěch Jarník international student competition, 2004 – 2008.
Lithuanian Mathematical Olympiad 2001 – 2002.
Mathematical competition in honour of Prof. B. Grigelionis, Pasvalys 2000–2002.

A jury memeber of

Vojtěch Jarník international competition, Ostrava, 2010 – 2012.
Baltic Way international olympiad, Vilnius, 2004.
Lithuanian Mathematical Olympiad, 2003 – 2009, 2012.
Mathematical competition in honour of Prof. B. Grigelionis, Pasvalys, 2003–2009, 2011.

A lecturer in

Kangaroo mathematical summer camp in Tolieja 2004 – 2006, 2011, 2012, 2015, 2016
Rokunda mathematical summer camp in Pasvalys 2010–2012.

An organizer of

MIFMO student mathematical competition 2010–2013.

Languages

I speak, read and write in		
	Lithuanian	– native language
	English	– proficient
	Russian	– proficient
	French	– weak

IT skills

I code, edit, work with		
	Programming languages	`C`, `C++`, `Java`, `Python`, `Pascal`
	Computer algebra systems	`Sage`, `Maple`
	Web page design	`HTML`
	Mathematical editing	LaTeX
	Office applications	Word, Excel
	Operating systems	Windows and LINUX