Curriculum Vitae

ALEX GAVRYUSHKIN

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Contacts

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Education

 $2009\,\,$ Ph. D. in Mathematics $\,\,$ from Sobolev Institute of Mathematics, Novosibirsk

Thesis advisor: Professor Sergei S. Goncharov

2006 M.S. in Mathematics from Novosibirsk State University (with First Class Honors) 2004 B.S. in Mathematics from Novosibirsk State University (with First Class Honors)

Professional Activity

February 2012–present Research Fellow The University of Auckland (NZ)

Department of Computer Science

September 2009–December 2014 Senior Lecturer Irkutsk State University (RF)

Institute of Mathematics, Economics,

and Computer Science

Awards

2011	Dr of Science Scholarship for three years
2009	Siberian Fund for Algebra and Logic Award (2005–2009)
2008	Award for excellence in teaching (at ACM-ICPC North-Eastern European Regional Contest)
2007	Siberian Mathematical Journal Award (from Sobolev Institute of Mathematics)
2006	Best Student Scientific Work Award (from Novosibirsk State University)
2005	Maltsev Award (from Novosibirsk State University)

Recent publications

- A. Gavryushkin and A. Drummond. The space of ultrametric phylogenetic trees. *Journal of Theoretical Biology*, Vol. 403, 197–208, 2016.
- C. Zeidler, A. Gavryushkin, C. Lutteroth, and G. Weber. Tiling algebra for constraint-based layout editing. *Journal of Logical and Algebraic Methods in Programming*, accepted.
- A. Gavryushkin, B. Khoussainov, M. Kokho, and J. Liu. Dynamic algorithms for multimachine interval scheduling through analysis of idle intervals. *Algorithmica*, DOI 10.1007/s00453-016-0148-5, 2016.
- T. Stadler, T. Vaughan, A. Gavryushkin, S. Guindon, D. Kühnert, G.E. Leventhal, and A. Drummond. How well can the exponential-growth coalescent approximate constant-rate birth-death population dynamics? *Proceedings of the Royal Society B: Biological Sciences*, 282, 1806, 2015.
- P. Gavryushkin, Z. Popov, K. Litasov, and A. Gavryushkin. Unbiased crystal structure prediction of NiSi under high pressure. *Journal of Applied Crystallography*, 48, 3, 906–908, 2015.
- A. Gavryushkin, B. Khoussainov, and F. Stephan. Reducibilities among equivalence relations induced by recursively enumerable structures. *Theoretical Computer Science*, Vol. 612, 137–152, 2015.
- A. Gavryushkin. Decidable models of small theories. *Lobachevskii Journal of Mathematics*, 36, 4, 446–449, 2015.
- A. Gavryushkin, B. Khoussainov, M. Kokho, and J. Liu. Dynamic algorithms for monotonic interval scheduling problem. *Theoretical Computer Science*, Vol. 562, 227–242, 2014.
- A. Gavryushkin and A. Nies. Universality for left-computably enumerable metric spaces. Lobachevskii Journal of Mathematics, 35, 4, 292–294, 2014.
- A. Gavryushkin, B. Khoussainov, M. Kokho, and J. Liu. Dynamic interval scheduling for multiple machines. *ISAAC 2014*, *Springer LNCS*, Vol. 8889, 235–246, 2014.
- A. Gavryushkin, S. Jain, B. Khoussainov, and F. Stephan. Graphs realised by r. e. equivalence relations. *Annals of Pure and Applied Logic*, 165, 7, 1263–1290, 2014.
- A. Gavryushkin, B. Khoussainov, M. Kokho, and J. Liu. Dynamising interval scheduling: the monotonic case. *IWOCA 2013, Springer LNCS*, Vol. 8288, 178–189, 2013.
- A. Gavryushkin and B. Khoussainov. On decidable and computable models of theories. *CiE* 2013, *Springer LNCS*, Vol. 7921, 200–209, 2013.
- A. Gavryushkin. On constructive models of theories with linear Rudin-Keisler ordering. Journal of Logic and Computation, 22, 4, 793–805, 2012.

Recent invited talks

-	light session talk				
1 30 1	nar talk				
at ETH—Zürich February 2015 <i>Matsen Group Seminar</i> Seminat Fred Hutchinson Cancer Research Center	nar talk				
	shop talk				
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University of Wisconsin—Madison					
Grants					
2012–2013 Associate Investigator of an FRDF grant from the University of Auckland					
Contract # 2795185 for \$200,000					
2011–2013 Principal Investigator and Coordinator of a Russian Government Grant Contract # 16.740.11.0567 for US\$50,000					
2010–2012 Principal Investigator and Coordinator of a Russian Government Grant					
Contract $\#\Pi1227$ for US\$65,000					
2006–2010 Participant of a Russian Fund for Fundamental Research Grant					
2003–2009 Participant of a Russian President Grant					
Students					
2015–2016 Lena Collienne Intern The University of Auckland ((University of Greifswald)				
2015–2016 Edwardo Reynolds Intern The University of Auckland					
Recent teaching					
2012–2014 The University of Auckland 2013–2014 Auckland U of Technology 2013–2013 Auckland U of Technology 2012–2012 Auckland U of Technology 2012–2012 The University of Auckland Discrete Structures in Mathematics Engineering Mathematics (71520) Theory of Computation (72012–2012) Software Engineering Theory	I and II (715001/716001) 05) (17300)				

Professional Affiliation

2016	Society of Systematic Biologists	Member	
Service to Department and University			
2013	Auckland–Novosibirsk Workshop on	Co-Chair of the	
	Algebra, Logic, Geometry, and Combinatorics	Program Committee	
2009	Maltsev Meeting	Organizing Committee	
2007	Mathematics in the Modern World	Organizing Committee	
2007	Domains VIII and Computability Over Continuous Data Types	Organizing Committee	
2005	Asian Logic Conference	Organizing Committee	

I am a regular reviewer for AMS Mathematical Reviews and a referee for such journals and conferences as

- Genome Biology and Evolution
- Journal of Mathematical Biology
- LICS Symposium

Up-to-date CV: https://gavruskin.github.io/AGcv_short.pdf