

CV, URBAN LARSSON, NOV 2016

1. HIGHER EDUCATION	
Master's degree in Mathematics, Chalmers Tekniska Högskola	8 Feb 2005
2. DOCTORAL DEGREE	
PhD in Mathematics, Chalmers, <i>Impartial Games and Recursive Functions</i>, supervisor Doc. J. Wästlund, opponent Prof V. Gurvich	18 Sept 2013
3. CURRENT POSITION	
Postdoc, Industrial Engineering and Management, Technion, Israel institute of Technology, Game Theory Group, supervisor Prof R. Meir	2 Oct 2016 – 1 Oct 2017
4. ACADEMIC WORK	
An extended Killam postdoc at Dalhousie University, Canada, supervisor Prof R. J. Nowakowski	6 June 2014 – 7 Sept 2016
Responsible lecturer, Matrix Theory and Linear Algebra II, Math 2040, Dalhousie University, Summer course	3 July – 18 Aug 2016
Responsible lecturer, Discrete mathematics, Elektroingenjörerna och Dataingenjörerna, mve070, Chalmers, Gothenburg Sweden	Jan – April 2013
Assistant teacher, Calculus, Chalmers (examiner H. Blomqvist)	Oct – Dec 2013
Responsible lecturer, Matematik 1, Sjöingenjörerna, Chalmers	Sep – Nov 2013
PhD in Mathematics (100%) incl. teaching 14+ courses for D and IT Chalmers, Analysis, Discrete Mathematics and Linear Algebra	16 June 2008 – 2 July 2013
Assistant teacher, Discrete mathematics at Chalmers (examiner Doc. Johan Jonasson)	2004
TEACHING (OTHERWISE)	
Several courses in Computing, Media, Mathematics and Physics, including class superintendent (2 classes), and examiner (most courses) at Polhemsgymnasiet, Lindholmens Tekniska Gymnasium and International IT-college of Sweden (Göteborg)	2002-2008
WORK (OTHERWISE)	
I have worked in many fields as a journalist, photographer, filmmaker, media teacher, electrician, and technician; employed by various companies, including Siemens AG, research department, Munic.	1982-2001
OTHER INFORMATION, EDUCATION	
Y-linjen, Linköpings Tekniska Högskola (graduated at Chalmers 2005)	1984-1986
The Centre for Training, Alexander Technique, director D. Gorman	1992-1995
Medialinjen, Biskops Arnös Folkhögskola, director B. Åkerlund (I produced a documentary that was broadcasted on Swedish television)	1989-1991
6. INVITED TALKS, SEMINARS AND CONFERENCES	
	Total: >50
University of Zurich, Automata 2016, inv. M. Cook, T. Neary	June 2016
CANT, CUNY, inv Prof M. Nathanson	May 2016
Université de Montpellier, Institut Montpellierain Alexander Grothendieck, seminar, inv Dr J. Chappelon	Feb 2016
Mälardalens Högskola (MDH), MAM-seminar inv Prof K. Eriksson	16 Dec 2015
Participant, MSRI, workshop on combinatorial games, in honor of Elwyn Berlekamp's 75th birthday	1-2 Nov 2015
Two presentations at Dalhousie University, Game Theory Seminar, inv Prof R. J. Nowakowski	Sept, Oct 2015
West Chester University, Mathematics Colloquium, inv Dr. M. Fisher	Oct 2015

MOVES 2015 conference, NYC, The National Museum of Mathematics	2-4 Aug 2015
University of Turku, Automata 2015, inv Prof J. Kaari	June 2015
Chalmers University of Technology, seminar, inv Prof P. Hegarty	4 June 2015
Dalhousie University, seminar Dept. Mathematics and Statistics	1 April 2015
University of the Virgin Islands, inv Dr. D. Ianucci	March 2015
G4G Europe, University of Lisbon (CELC), Portugal, inv. Dr. C. Santos, Prof. J. N. Silva	24-26 Jan 2015
CGTC 1, University of Lisbon (CELC), Portugal, inv Dr C. Santos	21-23 Jan 2015
University of Zurich, INI seminar, inv Prof M. Cook	17 Jan 2015
MIT combinatorics seminar, inv Prof H. Cohn	7 Nov, 2014
A seminar at Rutgers Business School MSIS, The State University of New Jersey, http://msis-rutgers.net/seminar/ inv Prof E. Boros	6 Nov, 2014
West Chester University, Mathematics Colloquium, inv Dr. M. Fisher	29 Oct 2014
Corner Brooks University seminar, inv Dr. R. Milley	Sept 2014
Special Recreational Math Meeting, talk, The Weizmann Institute of Science, inv. Prof A. S. Fraenkel	20 June 2014
Two talks, Joint International Meeting (IMU, AMS) Tel-Aviv and Bar-Ilan Universities, ISRAEL, inv. Prof A. S. Fraenkel	16-19 June 2014
TRUe Games Workshop, Kamloops, BC, Canada, inv. Dr. P. Ottaway	6-9 May 2014
Stony Brook Worksh. Comput. Game Theory, inv. Prof B. von Stengel	16-18 July 2013
Erdős Centennial, Hungarian Academy of Sciences, Alfréd Rényi Institute of Mathematics, Budapest (only participant)	1-5 July 2013
The Nordic Combinatorial Conference (NORCOM), KTH Stockholm, inv Dr P. Bränden and Prof S. Linusson	17-19 June 2013
CMS Summer Meeting and Games at Dal, Dalhousie University Halifax Canada, inv Prof R. Nowakowski	2-10 June 2013
Recreational Mathematics Colloquia and Board games studies, Ludus, Ponta Delgada, Azores Portugal, inv Dr C. Santos	3-6 April 2013
Vetenskapsfestivalen, Chalmers/GU, inv Prof U. Persson	26 Mars 2013
8 Discrete Mathematics Seminars, Chalmers/GU	2005 - 2013
SIAM conference on Discrete Mathematics (participant) and Games at Dal (lecturer), Halifax, Canada, inv Prof R. Nowakowski	18-26 June 2012
5 CANT conferences, CUNY, inv Prof M. Nathanson	2007 - 2012
Logikseminariet, GU, inv. Dr F. Engström	30 March 2012
International CGT seminar, inv Prof R. Nowakowski	22 March 2012
2 PhD seminars, Chalmers/GU	2009, 2011
3 INTEGERS conferences, Uni. West Georgia, inv. Prof B. Landman	2007 - 2011
2 BIRS, Games of no Chance Workshops, Canada, Combinatorial games (three invited talks), inv. Prof. R. Nowakowski and A. Fraenkel	2008, 2011
Seminar at Dalhousie University, Canada inv Prof R. Nowakowski	1 June 2010
Combinatorics Seminar, KTH, Stockholm, inv Prof S. Linusson	28 Nov 2007
Baltic IV Kiel-Goteborg Workshop on probability and combinatorics (only participant) , inv. Prof. A. Srivastav.	12-13 Nov 2004
IBFI, Schloss Dagstuhl, Analysis of combinatorial algorithms and concentration of measure, inv. Prof. D. Dubashi and A. Srivastav.	28 Aug – 3 Sept 2004
RESEARCH COLLABORATIONS, ETC	

CGTC 2, University of Lisbon (CELC), Portugal, in Scientific Committee, inv Dr C. Santos	Jan 2017
Coorganizer of a workshop in combinatorial game theory, Games at Dal, Dalhousie University, with Prof R. J. Nowakowski	11-14 Aug 2016
University Lyon 1, Computer Science, inv Dr E. Duchene	Feb 9-25 2016
University of Zurich, INI, inv Prof M. Cook	Jan-Feb 2016
Weizmann Institute of Science, inv Prof A. S. Fraenkel	Jan 4-17 2016
ICSI, Berkeley and W.M. Keck Science Center, inv E. Friedman, A. and Landsberg, also with S. Garrabrant, S. Heubach, M. Dufour,	Nov 3-25 2015
West Chester University, inv Dr. M. Fisher	Oct 2015
Coorganizer of a workshop in combinatorial game theory, Games at Dal, Dalhousie University, with Prof R. J. Nowakowski	11-14 Aug 2015
Uppsala Universitet, inv Dr Elke Rogersdotter (also Dec 2016)	13-14 Juni 2015
University of the Virgin Islands, inv Dr D. Iannucci	March 2015
University of Quebec and Montreal, inv Dr M. Dufour	April 2015
University of Lisbon, inv Dr. C. Santos	1-23 Feb 2015
CGTC 1, University of Lisbon (CELC), Portugal, in Scientific Committee, inv Dr C. Santos	Jan 2015
University of Zurich, INI, Prof M. Cook and Dr T. Neary	5-20 Jan 2015
Corner Brooks University inv Dr R. Milley and Prof R. Nowakowski	Sept 2014
The Weizmann Institute of Science, inv. Prof A. S. Fraenkel	June 2014
Dalhousie Univ, Prof R. Nowakowski, N. McKay and A. Siegel	16-23 Jan 2011
The Weizmann Institute of Science, inv Prof A. S. Fraenkel, with Prof P. Hegarty	17-25 March 2010
EDITING, REFEREEING ASSIGNMENTS ETC	Total 15+
Associate Editor, IJGT	2016 -
Editor, Games of no Chance 5, proceedings (inv by Prof R. Nowakowski, organizer 2011 BIRS, Combin. Games Workshop)	2011 -
Australasian Journal of Combinatorics, Editor Prof T. Britz	2015
Australasian Journal of Combinatorics, Editor Prof M. Albert	2015
Electronic Journal of Combinatorics, Editor Marc Noy	2015
4: Discr. Math., Jour. Comb. Theory A, Theo. Comp. Sci, SIAM J.	2014
Discrete Applied Mathematics, Editor Prof Vladimir Gurvich	Fall 2013
Theoretical Computer Science, Editor Prof Aviezri Fraenkel	Fall 2012
Jour. Combin. Theory, series A, Editor-in-Chief Prof Ole Warnaar	Spring 2012
INTEGERS, Editor Prof Bruce Landman	Spring 2012
INTEGERS, Editor Prof Bruce Landman	Oct 2010
Electronic Journal of Combinatorics, Editor Prof Rod Canfield	April 2010
Journal of Integer Sequences, Editor Prof Jeffrey Shallit	Aug 2009
A recommendation letter for Udi Hadad, asked by Prof A. Fraenkel	Aug 2009
Games Of No Chance 4, Editor Prof R. Nowakowski	Jan 2009

PEER REVIEWS PUBLISHED/ACCEPTED PAPERS

[L1] A. Baltz, P. Hegarty, J. Knape, U. Larsson, T. Schoen, Sets of integers containing no solutions of the equation $ka=b+c$, *Electron. J. Combin.*, **12** (2005) R19

[L2] P. Hegarty, U. Larsson, Permutations of the natural numbers with prescribed

difference multisets, *Integers*, **6** (2006) A3

[L3] U. Larsson, 2-PileNim with a restricted number of move-size imitations (Appendix by P. Hegarty), *Integers*, **9** (2009) G4 671–690

[L4] U. Larsson, P. Hegarty, A. S. Fraenkel, Invariant and dual subtraction games resolving the Duchêne-Rigo conjecture, *Theoret. Comput. Sci.*, Vol. 412 (2011) 729–735

[L5] U. Larsson, Blocking Wythoff Nim, *Electron. J. Combin.*, **18** (2011) P120

[L6] U. Larsson, A Generalized Diagonal Wythoff Nim, *Integers*, **12** (2012) G2

[L7] U. Larsson, The *-operator and invariant subtraction games, *Theoret. Comput. Sci.*, Vol. 422 (2012) 52–58

[L8] U. Larsson, Impartial games emulating one-dimensional cellular automata and undecidability, *J. Combin. Theory, Ser. A*, 120 (2013) 1116–1130

[L9] U. Larsson, Restrictions of m-Wythoff Nim and p-complementary Beatty sequences, in: R. J. Nowakowski (ed.) Games of No Chance 4, Proc. BIRS Workshop on Combinatorial Games, 2008, Banff, Alberta, Canada, MSRI Publ. Vol. 63, Cambridge University Press, Cambridge, pp.~?--?, (2015)

[L10] U. Larsson, J. Wästlund, From heaps of matches to the limits of computability, *Electron. J. Combin.*, **20** (2013) P41

[L11] U. Larsson, Splitting sequences and Wythoff Nim extensions, *J. Integer Seq.*, **17** (2014) Article 14.5.7

[L12] U. Larsson, J. Wästlund, Maharaja Nim: Wythoff's Queen meets the Knight, *Integers*, **14** (2014) G05

[L13] U. Larsson, S. Rubinstein-Salzedo, Grundy values of Fibonacci nim, *Internat. J. Game Theory*, (2015) :473

[L14] M. Cook, U. Larsson, T. Neary, A cellular automaton for blocking queen games, *Cellular Automata and Discrete Complex Systems, 21st IFIP WG 1.5 International Workshop, Automata 2015, Turku, Finland, June 8-10, Proceedings*, J. Kari, (ed.) LNCS 9099, 71--84 (2015)

[L15] E. Duchene, U. Larsson, S. Heubach, M. Dufour, Building nim, *Int. J. Game Theory*, DOI 10.1007/s00182-015-0489-3 (2015)

[L16] N. Fox, U. Larsson, An aperiodic subtraction game of nim-dimension two, *J. Integer Seq.*, Vol. 18 (2015), Article 15.7.4

[L17] U. Larsson, M. Weimerskirch, Impartial games whose rule sets correspond to a given continued fraction, to appear in: U. Larsson (ed.) Games of No Chance 5, Proc. BIRS Workshop on Combinatorial Games, 2011, Banff, Alberta, Canada

[L18] A. S. Fraenkel, U. Larsson, Take-away games on Beatty's theorem and the notion of k -invariance, to appear in: U. Larsson (ed.) Games of No Chance 5, Proc. BIRS Workshop on Combinatorial Games, 2011, Banff, Alberta, Canada

[L19] M. Fisher, U. Larsson, Chromatic Nim finds a game for your solution, to appear in: U. Larsson (ed.) Games of No Chance 5, Proc. BIRS Workshop on Combinatorial Games, 2011, Banff, Alberta, Canada

[L20] J. Neto, R. J. Nowakowski and C. Santos, Guaranteed scoring games, *Electron. J. Combin.*, **23** (2016) P3.27

[L21] M. Cook, U. Larsson, T. Neary, A cellular automaton for blocking queen games, *Nat. Comput.* (2016) DOI 10.1007/s11047-016-9581-2 (an extended version of a paper in the conference proceedings [L14])

Recent preprints:

2-player Tower of Hanoi, with J. Chappelon and A. Maatsura (March 2015, IJGT)

When waiting moves you in scoring combinatorial games, with R. J. Nowakowski, C. Santos (Spring 2015, IJGT)

Finding golden nuggets by reduction, with N. Mc Kay, R. J. Nowakowski, A. Siegel (Fall 2015, IJGT)

Global Fibonacci Nim, with Simon Rubinstein-Salzedo (Fall 2015, IJGT)

Hopeful windows and fractals in cellular automata and combinatorial games (Published as an exploratory paper, Automata Zurich 2016)

Absolute Combinatorial Game Theory, with R. J. Nowakowski, C. Santos (Summer 2016, EJC)

Eternal Picaria, with I. Rocha (Summer 2016, DAM)

A misère-play game creating operator, with S. Heubach, M. Dufour (Summer 2016)

When game comparison becomes play: Absolutely categorical game theory, with R. J. Nowakowski, C. Santos (Summer 2016, DM)

Wythoff wisdom, with E. Duchene, A. S. Fraenkel, V. Gurvich, N. B. Ho, C. Kimberling (survey, GONC5)

Endgames in bidding chess, with J. Wästlund (Summer 2016, GONC5)

In preparation:

Several other projects are in various stages of preparation, with co-authors: A. S. Fraenkel, L. Goldberg, E. Duchene, S. Heubach, M. Dufour, D. Ianucci, A. Landsberg, S. Garrabrant, E. Friedman, R. J. Nowakowski, C. Santos, J. Wästlund, E. Rogersdotter, M. Cook, T. Neary, A. Siegel, S. Rubinstein-Salzedo, M. Fisher, J. Chappelon, I. Rocha, M. Fisher.

I am the editor of Games of no Chance 5 (invited by Prof R. J. Nowakowski), which is also in preparation. This is probably the most popular series of collections of CGT papers; the previous books, (no 1-4) were edited by e.g. Prof. Nowakowski (also Prof. M. Albert).