Bjarni Jens Kristinsson

Curriculum Vitae

"It is quality rather than quantity that matters."
-Lucius Annaeus Seneca, *Moral Letters to Lucilius*

Education

2012 – 2015	**B.Sc. in Mathematics**, *University of Iceland*, Reykjavik, *8,55* (out of 10). Minor in Computer Science. Took elective courses on subjects such as algorithms, probability theory, combinatorics and graph theory. President of the student union Stigull during the school year 2013-14.
2007 – 2011	**Stúdentspróf**, *Reykjavik Junior College*, Reykjavik, *7,89* (out of 10). Physics department. Received an acknowledgement for excellent results in Mathematics at graduation. Voted class councillor in final year.

Bachelor thesis

title	Occurrence graphs of patterns in permutations
supervisor	Henning Ulfarsson, postdoctoral researcher at Reykjavik University
abstract	This paper is based on a generalization of the idea behind the proof of the *Simultaneous Shading Lemma* by Claesson et al. (2014). We define the *occurrence graph* $G_p(\pi)$ of a pattern p in a permutation π as the graph with the occurrences of p in π as vertices and edges between the vertices if the occurrences differ by exactly one element. We study the general properties of the occurrence graphs and some interesting extreme cases. The main theorem in this paper is that every *hereditary property* of graphs produces a *permutation class*.
url	`http://hdl.handle.net/1946/22017`

Work

Programming

2015 – *curr.*	**Software developer**, *WuXi NextCODE*, Reykjavik.
May – July 2015	**Software developer**, *Handpoint*, Kopavogur. Implementing protocols with partners and developing card reader software. Quit because the job turned out to be different and not as demanding as promised in the interviewing process.

Eggertsgata 34, apt. 104 – 101 Reykjavik – Iceland
℡ *+354 698 1423* • ✉ *bjarni.jens@gmail.com* • ⌂ *bjk.is* • in *bjk17*
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Summer 2014	**Software developer**, *Invector*, Reykjavik.
	Developing a web app for clients using Invector's statistical model to estimate prices of real estates worldwide. Working primarily on designing the database, the user system and other backend programming.
Summer 2013	**Software developer**, *Reykjavik Energy*, Reykjavik.
	Brought in to program an interactive educational game about Reykjavik Energy's CarbFix project. Worked with three Master's student who designed the game and made all the educational material.

Teaching

Fall 2013	**Assistant Teacher**, *University of Iceland*, Reykjavik.
	Teaching assistant in a Linear Algebra course.
2012 – 2014	**More teaching**, *Various employers*, Reykjavik.
	I have taught a computer science class for the Youth university (summer 2013), revision courses in mathematics for Nobel tutoring Ltd. (2012 – 2013) as well as I have had many students for private tutoring in mathematics (2012 – 2014).

Computer skills

Fluent	Linux, Bash, SSH, LaTeX
Advanced	Java, Python, Django, SQL, Git, Apache
Intermediate	HTML, CSS, JavaScript, Spreadsheet/Excel
Beginner	Octave/MatLab, R, MathProg/AMPL, Sage

Interests

tech	I am interested in all kinds of technology and I especially love playing with new gadgets. Currently I am programming small and low-powered ARM computers for home networking and light webservers.
math	I am deeply intrigued by the concept of infinity. In my studies I have specialised in discrete mathematics and computer science and have my eyes set on cryptography. During junior college I participated in many mathematics competitions and twice I was selected to compete with the national team in Baltic Way.
chess	For many years I studied chess and I achieved a peak ELO rating of 2062. In 2007 I became national champion U20 and in 2009 I played in the World Youth Chess Championship held in Antalya, Turkey. Twice I became Nordic champion and three times national champion with my junior college chess team. I have tought chess in various elementary schools and organized my own summer chess workshops.
bicycling	I use my bike to get around inside the city. It is also a method of excercise to keep myself fit and healthy. In the summer of 2012 me and my friend went on a 2 month biking tour through Europe, visiting six countries and bicycling over 1600 km.

References

Available upon request.