



Bjarni Jens Kristinsson

Curriculum Vitae

Education

- 2017 – *curr.* **M.Sc. in Computer Science**, *Vrije Universiteit Amsterdam*, Netherlands.
Joint program with University of Amsterdam, Parallel Computing Systems track. Elective courses in the field of theoretical Computer Science and Mathematics.
- 2012 – 2015 **B.Sc. in Mathematics**, *University of Iceland*, Reykjavik, 8,55 (out of 10).
Specialization in Computer Science. Elective courses in subjects such as algorithms, probability theory, combinatorics and graph theory. President of the student union Stigull during the school year 2013-14.

Development tools

- Languages Java, Python
- DevOps Linux, Docker, LXD, Jenkins, Travis, Bash
- Other SQL, Octave/MatLab, R, \LaTeX

Work experience

- 2015 – 2017 **Software Developer**, *WuXi NextCODE*, Reykjavik, Iceland.
Joined the company at an early stage when it was expanding very fast. Started off in DevOps like assignments of maintaining, executing and further developing deployment (Chef, Ansible) and infrastructure (AWS CloudFormation, Terraform) code. Handed it over to a newly created Backend Group and joined the Data Group. Developed Python code to import and process genomic data in our system and integrating 3rd party platforms with ours. Built, tested and deployed components in CI/CD loops using tools such as Jenkins, Docker and Ansible.
- Summer 2014 **Software Developer**, *Invector*, Reykjavik, Iceland.
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, Iceland.
Brought in to program an interactive educational game about Reykjavik Energy's CarbFix project. Worked with three Master's students who designed the game and wrote the educational material. Coded the game in raw JavaScript using images and graphics drawn and provided by them.

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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>
- url <https://arxiv.org/abs/1607.03018> (with additions from Henning)

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).

Interests

- tech Recent hands-on hobby projects include autonomous Raspberry Pis hosting websites and recording timelapses. Set up blog.bjk.is to document some of it. Manage my own VPS hosting websites and experimenting with various webservices.
- math I am deeply intrigued by the concept of infinity and I take joy in intuitive proofs by contradiction. 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 taught chess in various elementary schools and organized my own summer chess workshops.
- sports I like to lift weights, play football and bike to keep me in shape and in good health. I also bike to commute. In the summer of 2012 my friend and I went on a 2 month biking tour through Europe, visiting six countries and bicycling over 1600 km.

References

Available upon request.