Svend Christian Svendsen

Curriculum Vitae

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Educ	cation

Aug 2016 – Jul 2021	Computer Science PhD, Aarhus University
	Research in I/O-efficient algorithms with applications to graphs and massive terrain
	data.
Sep 2019 – Jan 2020	Visiting PhD Student, Duke University.
Aug 2016 – Jul 2019	Computer Science MSc, Aarhus University
Aug 2013 – Jul 2016	Computer Science BSc, Aarhus University

Employment

Aug 2010 – Jul 2013 Gymnasium (STX), Munkensdam Gymnasium

Aug 2021 - now	Consultant, Netcompany
	Development in Java Spring for the Tax and Public Safety unit.
Nov 2015 – Jul 2016	Student Software Developer, part-time, SCALGO

1101 2010	the 2010 our 2010 State of Software Boveloper, part time, Scribbed		
		Development of C++ software for processing large geographical datasets. See scalgo.com.	

Nov 2013 – Nov 2015	Student Software Developer, part-time, Aarhus University	
	Development of the C++ library TPIE used for algorithms for massive data sets on	
	commodity hardware. See cs.au.dk/~rav/tpie.	

Jul 2013 – Oct 2013 **Student Software Developer**, part-time, Døgndata Development of Ruby on Rails applications for use in institutions for vulnerable youth. See sofus.dk.

Programming Competitions

2013	International Olympiad in Informatics	(IOI),	Brisbane,	Australia	
	Bronze medal				

2012 International Olympiad in Informatics (IOI), Sirmione, Italy Bronze medal

2013, 2015, 2016, 2017 Northwestern Europe Regional Contest (NWERC)
Best ranking: 13 of 120 (1st among Danish teams)

2013, 2014, 2016, 2017 Nordic Collegiate Programming Contest (NCPC), Aarhus, Denmark Best ranking: 27 of 253 (2nd among Danish teams)

2011 International Olympiad in Informatics (IOI), Pattaya, Thailand

Publications

2021 Algorithms for Massive Terrains and Graphs
Ph.D. thesis

2021 Practical I/O-Efficient Multiway Separators Single-authored manuscript

2020 1D and 2D Flow Routing on a Terrain,

ACM SIGSPATIAL 2020, Seattle

Co-authored paper with Aaron Lowe, Pankaj K. Agarwal, and Lars Arge.

2019 Learning to Find Hydrological Corrections,

ACM SIGSPATIAL 2019, Chicago

Co-authored paper with Lars Arge, Allan Grønlund, and Jonas Tranberg.

2017 External Memory Pipelining Made Easy With TPIE,

IEEE BigData 2017, Boston

Co-authored paper with Lars Arge, Mathias Rav, and Jakob Truelsen.

Teaching

2017 – 2021 **Optimization**, Aarhus University

Teaching Assistant for 5 semesters

2017 Combinatorical Search, Aarhus University

Teaching Assistant

2016 Perspectives in Computer Science, Aarhus University

Teaching Assistant

Languages

Danish, Native proficiency

English, Full professional proficiency