

Svend Christian Svendsen

Curriculum Vitae

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Education

- Aug 2016 – Jul 2021 **Computer Science PhD (ongoing)**, *Aarhus University*.
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*.
Aug 2010 – Jul 2013 **Gymnasium (STX)**, *Munkensdam Gymnasium*.

Employment

- Aug 2016 – Jul 2021 **PhD Fellow**, *Aarhus University*.
Nov 2015 – Jul 2016 **Student Software Developer**, *SCALGO*.
Development of software for processing massive terrain data.
See www.scalgo.com.
Nov 2013 – Nov 2015 **Student Software Developer**, *MADALGO*, *Aarhus University*.
Maintainer of the TPIE software library.
See madalgo.au.dk/tpie.
Jul 2013 – Oct 2013 **Student Software Developer**, *Døgndata*.
Developing software for use in institutions for vulnerable youth.
See www.sofus.dk.

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

Programming Competitions

- 2013, 2015, 2016, 2017 **Northwestern Europe Regional Contest (NWERC)**.
Best ranking: 13 of 120
2013, 2014, 2016, 2017 **Nordic Collegiate Programming Contest (NCPC)**, Aarhus, Denmark.
Best ranking: 27 of 253
2013 **International Olympiad in Informatics (IOI)**, Brisbane, Australia.
Bronze medal
2012 **International Olympiad in Informatics (IOI)**, Sirmione, Italy.
Bronze medal
2011 **International Olympiad in Informatics (IOI)**, Pattaya, Thailand.

Publications

- 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.