

Torstein J. F. Strømme

Curriculum vitae

I am finishing my PhD in algorithms in 2020, and have a broad background in computer engineering and informatics. I am currently on a short break from my studies to work as assistant professor teaching a course with ~200 students, as well as leading a project group in competitive programming.

During the two years when I did my master's degree in theoretical computer science, I also worked full time as a computer systems engineer most of the time. When I did my bachelor's degree abroad at Carnegie Mellon University, I spent the summers in my home town working as a maintenance management engineer at Bybanen AS. Prior to that, I achieved my certificate of workmanship ("fagbrev") in electronics production from Roxar Flow Measurement through the prestigious TAF program.

During my education, I have completed depth sequences in algorithms, computer networks, and embedded systems. My research currently focus on algorithms for NP-hard problems, applying techniques such as pre-processing and structural parameterization. I was previously a research assistant in projects related to traffic light control and vehicle crowd-sourcing, and I fulfilled my breath requirements with classes in music, transportation engineering and religious history.

EDUCATION

- 2015 - **PhD, Computer Science**
UNIVERSITY OF BERGEN
Member of the algorithms group.
Interim average grade: A.
Honors: Meltzer project grant (x2)
- 2013 - 15 **MSc, Computer Science**
UNIVERSITY OF BERGEN
Thesis grade: A.
Coursework average grade: B
- 2009 - 13 **BSc, Electrical & Computer Engineering**
CARNEGIE MELLON UNIVERSITY
GPA: 3.79 / 4.0.
Honors: University Honors, College Honors, Eta Kappa Nu, Tau Beta Pi, Dean's list (x4), Friendliest Freshman Award.
- 2004 - 08 **General studies & electronics**
KNARVIK VIDAREGÅANDE SKULE
Part of the TAF program.
Average grade: 5.41 / 6.0

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WORK EXPERIENCE

University of Bergen (Aug 2018 – Dec 2018)

Assistant Professor

Teaching a course in algorithms, data structures and programming.

ABB (Jun 2013 – Jan 2015)

Systems Engineer

Installed automation control systems at gas plant, including network design and computer systems.

Bybanen AS (Summers 2010 – 2012)

Maintenance Management Eng.

Designed and maintained a maintenance management database for light railway. Trained maintenance personnel in using the database.

Norwegian Army (Aug 2008 – Jul 2009)

Signalman

Compulsory military service. Radio relay unit.

Roxar Flow Measurement (50%, Aug 2004 – Jun 2008)

Apprentice / Technician

Apprentice in electronics production as part of the TAF program. Assembly, calibration, testing and troubleshooting of circuit boards.

EXTRACURRICULAR ACTIVITIES

- 2016 - **Norwegian Informatics Olympiad**
Board member / Organizer
- 2015 - **Nordic Collegiate Programming Contest (NCPC)**
Site director (Bergen), Judge (2018)
- 2013 - 17 **Bergen Red Cross**
High school tutor
- 2010 - 13 **Carnegie Mellon Floorball Club**
President / Founding VP
- 2009 - 10 **Alternative Break at CMU**
Volunteer

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Publication List

- [1] Fedor V. Fomin, Petr A. Golovach, Torstein J. F. Strømme, and Dimitrios M. Thilikos. Partial Complementation of Graphs. In David Eppstein, editor, *16th Scandinavian Symposium and Workshops on Algorithm Theory (SWAT 2018)*, volume 101 of *Leibniz International Proceedings in Informatics (LIPIcs)*, pages 21:1–21:13, Dagstuhl, Germany, 2018. Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik
- [2] Fedor V. Fomin and Torstein J. F. Strømme. Vertex cover structural parameterization revisited. In *Graph-Theoretic Concepts in Computer Science*, pages 171–182. Springer Berlin Heidelberg, 2016
- [3] Dong Yeap Kang, O-joung Kwon, Torstein J. F. Strømme, and Jan Arne Telle. A width parameter useful for chordal and co-comparability graphs. *Theoretical Computer Science*, 704:1–17, dec 2017
- [4] Lars Jaffke, O-joung Kwon, Torstein J. F. Strømme, and Jan Arne Telle. Generalized distance domination problems and their complexity on graphs of bounded mim-width. *Accepted at IPEC 2018*, abs/1803.03514, 2018