

CASPER MOLDRUP RYSGAARD

Computer Science Student at Aarhus University

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TEACHING

Teaching Assistant

Aarhus University

September 2018 – Present

Aarhus, Denmark

Organizing weekly TA sessions and correcting weekly handins for a group of students, as an extension to the weekly reading material and lectures presented in the course.

2018 Fall	Algorithms and Data structures
2019 Spring	Introduction to Programming with Scientific Applications
2019 Fall	Algorithms and Data structures
2020 Spring	Programming Languages
2020 Fall	Algorithms and Data structures
2021 Spring	Programming Languages

In the algorithms course I additionally had the responsibility of running a server in 2019 and 2020, which checks the implementations of algorithms and data structures taught at the course, made by the students.

RELATED WORK

Student Programmer Summer Job

Aarhus University

August 2019

Aarhus, Denmark

Project for professor Aslan Askarov, attempting to formally verify the non-interference property of his language *Troupe* in Coq.

EXTRA CURRICULUM

(Pre) Talent Track

Aarhus University, Denmark

August 2017 – June 2020

Aarhus, Denmark

Participation in extra 30 etcs credit curriculum at Aarhus university.

2017 Fall	CS Challenge	Michael Schwartzbach	5 programming projects.
2018 Spring	Pre Talent Track	Various advisors	5 introductory projects to the research groups.
2018 Fall	Logic and Semantics	Aslan Askarov	Proof of dynamic non-interference for a small imperative language in Coq.
2019 Spring	Algorithms	Gerth Stølting Brodal	Selecting the k smallest items from an infinite heap in $O(k)$ time using deterministic selection.
2019 Fall	Logic and Semantics	Bas Spitters & Danil Annenkov	Analysis of Liquidity Smart Contracts, and formal verification in Coq.
2020 Spring	Cryptologi	Ivan Damgård & Sabine Oechsner	Formal verification of flooding network in Coq.

EDUCATION

BSc in Computer Science

Aarhus University, Denmark

August 2017 – June 2020

Graduating from Denmark's most theoretical computer science bachelor's degree with a weighted average of 11.31 (A).

Bachelor Project in Minimum Spanning Trees.

Final grade: 12 (A+).

MSc in Computer Science

Aarhus University, Denmark

August 2020 – June 2022 (expected)

Master degree started with focus on *algorithmics*, *cryptography* and *logic and semantics/programming languages*.

First 30 etcs passed with average 12 (A+).

VOLUNTEERING

I highly enjoy the spare time activities at the university, and have contributed to the social aspects by volunteering work.

Tutor

Mat/Fys-Tutorgruppen, Aarhus University

📅 January 2018 – Present 📍 Aarhus, Denmark

As a tutor, I have planned and executed a welcome program for new students of the university, including guidance and social events.

As part of the tutoring work, before the students arrive, I have helped creating new tasks for the try-TA session included in the introductory week, as well as work on the guide book for the tutors.

Instructor

It-Camp for Girls, Aarhus University

📅 October 2018, October 2019 📍 Aarhus, Denmark

Helped execute TA-session in algorithms.

Board Member

DSAU, Aarhus University

📅 August 2019 – Present 📍 Aarhus, Denmark

The student organisation DSAU plans events of social and skill learning character, along with various companies, seeking to gain hold of students.

Kitchen Responsible

Regnecentralen, Aarhus University

📅 May 2019 – Present 📍 Aarhus, Denmark

Regnecentralen is a kitchen and social hub for students. As kitchen responsible I have taken care of everyday practical things, arranged social events and updated social media content.

Bartender

Fredagscaféen, Aarhus University

📅 September 2018 – Present 📍 Aarhus, Denmark

Bartending two to four times every semester at Computer Science's friday bar at Aarhus University.

LANGUAGES

English

Fluent



Danish

Native



REFERENCES

Prof. Gerth Stølting Brodal

@ Aarhus University

✉ gerth@cs.au.dk

Talent Track and Bachelor Supervisor

Prof. Aslan Askarov

@ Aarhus University

✉ aslan@cs.au.dk

Talent Track Supervisor and summer job employer