CV

in www.linkedin.com/in/siv-soerensen

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🌐 Skodsborg, Denmark

SKILLS

Linear Programming

Integer Programming

MIP/MILP Modeling

Decomposition

Column Generation

Stochastic Programming

Graph Theory

Network Optimization

Algorithm Design

Algorithm Analysis

Data Structures

Metaheuristics

Machine Learning

PROGRAMMING

Julia

C

Python

Java

MATLAB

EXPERIENCE

POSTDOC IN OPERATIONS RESEARCH — 2024 - 2025
DTU MANAGEMENT
Same project as my PhD (6-month contract)

PHD CANDIDATE IN OPERATIONS RESEARCH — 2021 - 2024
DTU MANAGEMENT, SUPERVISED BY DAVID PISINGER
Title: Integrated Fault Localization and Field Service Logistics

STUDENT ASSISTANT IN HOLO AIR — 2019 - 2021
HOLO, SEMLER GROUP

STUDENT ASSISTANT IN R&D — 2018 - 2019
AMMINEX
Hands-on mechanical and electrical tasks and CAD

TEACHING ASSISTANT — 2017 - 2018
TECHNICAL UNIVERSITY OF DENMARK
Subjects: 'Engineering Work' and 'Fluid Mechanics'

TUTOR, STUDENT ASSISTANT, WAITRESS, CASHIER — 2010 - 2017
MENTOR DENMARK, CHEMINOVA, COLUMBUS PUB & STEAKHOUSE, CITY KIOSKEN LEMVIG
Various employment throughout my teenage years

EDUCATION

M.SC. MATHEMATICAL MODELING AND COMPUTATION — 2019 - 2021
TECHNICAL UNIVERSITY OF DENMARK (DTU)
Specialization: OR, Mathematical Modeling, Algorithms and Data Structures
GPA: 11.1/12   **Thesis:** 10/12

B.SC. MECHANICAL ENGINEERING — 2016 - 2019
TECHNICAL UNIVERSITY OF DENMARK (DTU)
GPA: 10.5/12   **Thesis:** 12/12

ASPIRING FEMALE LEADERSHIP PROGRAM — 2018 - 2018
MCKINSEY & COMPANY

INTERNATIONAL BACCALAUREATE (IB) — 2013 - 2015
STRUER STATSGYMNASIUM
GPA: 42/45, top 4% worldwide of 142,000 students

EXCHANGE STUDENT — 2012 - 2013
ST. LOUIS HIGH SCHOOL, MICHIGAN, USA
GPA: 4.0

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Skodsborg, Denmark

PUBLICATIONSSS

A Consensus Fixing Heuristic to Workforce Investments in Field Service
Computers & Operations Research, accepted (peer-reviewed)

2025

Integrated Fault Localization and Field Service Logistics
PhD Dissertation

2025

Topology reconstruction in telecommunication networks: Embedding operations research within deep learning
Computers & Operations Research, 176:106960 (peer-reviewed)

2024

Topology reconstruction using time series data in telecommunication networks
Networks, 83(2):408–427 (peer-reviewed)

2023

Hydrodynamics of Prey Capture and Transportation in Choanoflagellates
Fluids, 6(3), 94 (peer-reviewed)

2021

OTHER

PhD Association DTU
Board member
PhD wellbeing and political profile

2023 - 2024