

Sarah Eckholdt Jensen

RESEARCH ASSISTANT - DANISH CENTRE FOR PARTICLE THERAPY

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Education

M.Sc. in physics and science of religion

Aarhus, Denmark

DEPARTMENT OF PHYSICS AND ASTRONOMY & SCHOOL OF CULTURE AND SOCIETY, AARHUS UNIVERSITY

Jan. 2020 - Jan. 2023

- Specializing in medical physics and the evolution of religion.
- Thesis: Verification of Dose Calculations in Patients with Breast Cancer Using Monte Carlo Simulation for Spot Scanning Proton Beams.

B.Sc. in physics

Aarhus, Denmark

DEPARTMENT OF PHYSICS, AARHUS UNIVERSITY

Sept. 2016 - Aug. 2020

- Thesis: Dosimetric Verification of Spot-Scanning Proton Beams for Breast Cancer.

Work Experience

Research assistant

Aarhus, Denmark

DEPARTMENT OF CLINICAL MEDICINE, AARHUS UNIVERSITY

Feb. 2024 - Jun. 2024

- Research assistant for Associate Professor Lone Hoffmann and Associate Professor Hanna Rahbek Mortensen.

Project physicist

Aarhus, Denmark

DANISH CENTRE FOR PARTICLE THERAPY, AARHUS UNIVERSITY HOSPITAL

Mar. 2023 - Dec. 2023

- Developing a measurement-less workflow for patient-specific quality assurance (QA) based on Monte Carlo simulations.
- Trained in all three aspects of proton QA dosimetry (daily QA, patient-specific QA, and machine QA).

Research assistant

Aarhus, Denmark

DANISH CENTRE FOR PARTICLE THERAPY, AARHUS UNIVERSITY HOSPITAL

Sept. 2020 - Jul. 2022

- Research assistant for Professor Ludvig Muren.

Teaching assistant

Aarhus, Denmark

SCHOOL OF CULTURE AND SOCIETY, AARHUS UNIVERSITY

Feb. 2020 - Jun. 2021

- Propaedeutic 1: Classic Arabic
- Propaedeutic 2: Classic Arabic

Mentor

Aarhus, Denmark

DEPARTMENT OF PHYSICS AND ASTRONOMY, AARHUS UNIVERSITY

Aug. 2018 - Jun. 2021

- Mentoring first-year students at the Department of Physics and Astronomy.

Extracurricular Activity

Treasurer

Aarhus, Denmark

THE ULTRAHEMMEELIGE HUEJUNTA, DEPARTMENT OF PHYSICS AND ASTRONOMY, AARHUS UNIVERSITY

Sept. 2020 - Sept. 2021

- Responsible for the budget of the student organization.

Secretary

Aarhus, Denmark

TÅGEKAMMERET, AARHUS UNIVERSITY

Sept. 2019 - Sept. 2020

- Taking minutes of the weekly meetings, recording the liquor storage, and executing the drinks bar during events.

Volunteer at yearly summer camp

Agerskov, Denmark

UNGDOMMENS RØDE KORS

Apr. 2019 - Sept. 2022

- Volunteered in planning and executing a summer camp for vulnerable children between 7 and 13.

Selected Presentations

The ESTRO Physics Workshop 2023

Torino, Italy

WORKSHOP

Oct. 2023

- Attending the add-on 'Towards a consensus on pre-treatment verification in particle therapy'.

The BiGART Conference 2023

Aarhus, Denmark

POSTER DISCUSSION

Jun. 2023

- Presenting the project 'Patient-specific quality assurance using Monte Carlo dose calculations in patients with early breast cancer treated with proton'.

The ESTRO Conference 2021

Madrid, Spain

POSTER DISCUSSION

Aug. 2021

- Presenting the project 'Three-dimensional dosimetric verification of spot-scanning proton therapy in a breast-shaped phantom'.