



Nathan Hugh Barr

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Profile I have performed data analysis throughout my tertiary education on many types of data sets, ranging from small to large, complete and incomplete. These data sets have not only encompassed my field of study, physics and mathematics but also biology and chemistry. I can contribute my past experiences working with these different types of data sets to this position. I can perform both mathematical and numerical analysis on data sets and on mathematical models. I am versed in data analysis using python and matlab and i am quick to pickup any programming languages this position requires. I have experience in building mathematical models from the ground up using both text book theory and research from published articles. I have a wealth of experience working in project groups which i can contribute to this position through my ease of working in a team environment and my ability to immerse myself quickly in the project.

Education

2016 - 2019, Roskilde University

Master of Science in Physics and Mathematics

Master Thesis:

- Title: *Optimising the thickness determination of homopolymers and diblock copolymers using optical spectral reflectance during solvent vapour annealing.*
- Collecting, analysing and visualising data.
- Programming models and fitting routines.
- Grade: 10

2013 - 2016, Roskilde Universitet

Bachelor of Natural Science in Physics and Mathematics

Bachelor project:

- Title: *Mathematical competencies gained in Danish High School Education from 1958 to the present - using integrals as a case study.*
- Grade: 10

Relevant Courses

- Calculus
- Mathematical Modelling
- Probability and Statistics
- Statistical Mechanics

Experience and Volunteering

September 2016 and September 2017, Teachers Assistant, Data processing and Statistics.

- Teaching - basic programming, scripting and functions.
- Teaching - Introduction statistics in natural science.

January 2015 - December 2018, Private tutor, My academy.

October 2015 - December 2018, Science Show Representative, Roskilde University.

June 2017 - June 2019, Co-creator at Roskilde Festival, Volunteering.



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Technical skills

Programming and systems

- GNU Octave
- MatLab
- Python

Computer Software

- Linux
- LaTeX
- Microsoft Office

Language

Danish

- Professional(Reading,Speaking) - Intermediate(Writing)

English

- Mother tongue

Interests

Professional

Mathematical Modeling, Computational Physics and programming, Machine Learning, Experimental Physics: Small angle x-ray scattering, Grazing incidence small angle scattering, Dynamic light scattering, Reflectometry

Personal

I am a 29 year old Australian who is both an Australian and Danish citizen and I have lived in Danmark for 10 years. My hobbies are running, bikepacking and playing bass guitar. A big part of my summer is volunteering at Roskilde festival building the Pavilion stage and the Pavilion area. When winter rolls around i enjoy skiing.