

Nathan Hugh Barr

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Address

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Nathan Hugh Barr

Professional Profile

- Database Knowledge
- Mathematical Modelling
 - Differential equations
 - Partial differential equations
 - Dynamical Systems
- Programming Skills Python
- Statistical Analysis

- Data Visualisation
- Self-driven
- Team Player
- Organisation and planning skills
- Problem Solver
- Great communication skills

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-RUC*, 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.

Technical skills

Programming and systems

GNU Octave
MatLab
Python

Computer Software

LinuxLateXMicrosoft Office



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Language

Danish

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

English

- Mothertounge

Interests

Professional

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

Personal

I am 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.