Nathan Hugh Barr

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Nathan Hugh Barr

Professional Profile

- Database Knowledge - SQL
- 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
- Linux
- LateX
- Microsoft 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.