



Nathan Hugh Barr

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Nathan Hugh Barr

Professional Profile

- Mathematical Modelling
 - Differential equations
 - Partial differential equations
- Didactics
- Statistics
- 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.*
- Grade: 10

2013 - 2016, Roskilde Universitet

Bachelor of Natural Science in Physics and Mathematics

Bachelor project:

- Title: *Matematiske kompetencer tilegnet i den danske gymnasiale uddannelse fra 1958 til nu - ved brug af integraler som primær fokus.*
- Used Komrapporten (Niss og Jensen).
- Studied two definitions of integrals.
- Grade: 10

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.

- Mathematics, Physics and English tutor.
- One on One teaching, catering to the student.

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

- Able to convey natural science concepts to different audiences.
- Planning and development skills.

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

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.