Nathan Hugh Barr

nathanhbarr@gmail.
com

tlf: +45 61 73 55 92

**Address**
Lysalleen 60
4000 Roskilde

www.linkedin.com/
in/nathanhbarr/

# Nathan Hugh Barr

## Professional Profile

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

- Data Visualisation
- Problem based research
- 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*, 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

Nathan Hugh Barr

nathanhbarr@gmail.
com

tlf: +45 61 73 55 92

**Address**
Lysalleen 60
4000 Roskilde

www.linkedin.com/
in/nathanhbarr/

# 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 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.

Nathan Hugh Barr
Lysalleen 60
4000 Roskilde
Danmark

August 20, 2019

To whom it may concern:

With my background in Mathematics and Physics I see myself as a potential candidate that can strengthen your data scientist team. I am well versed in mathematical models and statistical based analysis. What I can bring to the table is my ability to work on turning data into insight using my theoretical mathematical foundation. I have experience working with large data-sets and I can write up reports containing visualisation and analysis of the data. I am proficient in Linux and Python and I have a strong foundation in scripting and programming which I believe can contribute to your data scientist team. I have not used the programming language R but I am positive that I can learn the language on the job.

I have excellent communication skills in both English and Danish, and I thrive in a team environment. It is stated in the job advertisement, that Block by Block is looking for a student. I don't classify for this requirement as I have completed my Cand.Scient in Physics and Mathematics, but I am looking for work experience. If there is a position that I can fill, I am interested in hearing about it.

I view myself as a cheerful and optimist person who is looking for new challenges.

I have attached a copy of my CV and a transcript of my bachelor and master's degree. I look forward to hearing from you about this position.

Sincerely,

Nathan Hugh Barr