

# Nozhan Balafkan

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## Work Experience

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|----------------|--------------------------------------------|
| 2020 - present | Data Scientist at StormGeo (Norway/Bergen) |
| 2019 - 2020    | Data Scientist at Capgemini (Norway/Oslo)  |

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## Technical Skills and Certifications

- **Quantitative Methods:** Time series modeling (ARIMA, GARCH, HMMs), Bayesian inference (MCMC, variational methods, Gaussian processes), stochastic modeling, deep learning-based generative methods, Fourier and spectral analysis.
  - **Machine/Deep Learning Python Packages:** Numpy, Scipy, Pandas, PyTorch, TensorFlow, Scikit-learn, NumPyro, JAX, Scikit-image, Matplotlib, Emcee
  - **Programming:** Python, C++, Bash, Fortran
  - **Tools/Platforms:** Git, Docker, AWS
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## Education

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| Aug. 2016 – June 2018 | Master of Science in Physics (Energy and Climate), University of Tromsø, Norway                     |
| Sep. 2014 – Sep. 2015 | One-year Post-Master Research in Computational Astrophysics, Saint Mary's University, Canada        |
| Apr. 2011 – Nov. 2013 | Master of Science in Physics, International Physics Studies Program, University of Leipzig, Germany |

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## Research Collaborations

### 2023 - present      Research Collaboration with Max Planck Institute

Ongoing independent collaboration on the application of probabilistic time series methods — including Fourier analysis and autoregressive techniques — to astrophysical data.

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