

BRYNJÓLFUR GAUTI GUÐRÚNAR JÓNSSON

PhD Student of Statistics at the University of Iceland

I am currently working on my PhD in statistics from the University of Iceland. I have experience in organizing my own research, coordinating with the work of other team members and applying a wide range of statistical models to real data scenarios.

EDUCATION

- 2020 • **University of Iceland**
M.S. in Statistics Reykjavík, Iceland
- Thesis: [Continuous Categories and Age-Specific Mortality Rates: An application of Gaussian process priors to the Lee-Carter model](#)
- 2018 • **University of Iceland**
B.S. in Psychology Reykjavík, Iceland
- Thesis: [Up high, down low, too slow: Effects of nature on directed attention differ between high and low spatial frequencies](#). Results were presented at the Biomedical and Health Sciences Conference at the University of Iceland.

RESEARCH EXPERIENCE

- 2022 | present • **PhD Student of Statistics**
University of Iceland Reykjavík, Iceland
- Researching improved 21st century projections of sub-daily extreme precipitation and how hierarchical Bayesian spatio-temporal models can be applied to bias-correct simulations from convection-permitting climate models using observed meteorological data.
- 2018 | present • **Statistician**
The Icelandic Heart Association Reykjavík, Iceland
- High-dimensional statistical modeling of the effects of serum levels of proteins on heart failure and other outcomes.
- 2020 | 2020 • **Statistician**
Directorate of Health Reykjavík, Iceland
- Designed and implemented a Bayesian hierarchical generalized logistic growth model for short-term predictions of diagnosed cases at the start of the COVID19 pandemic.
- 2019 • **Graduate Research Assistant**
The Science Institute, University of Iceland Reykjavík, Iceland
- Performed preliminary research related to my MSc thesis and presented results at the 2019 Nordic Demographic Symposium in Reykjavík



CONTACT INFO

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SKILLS

Experienced in data analysis and statistical learning models

Full experience with hierarchical Bayesian modelling.

Highly skilled in R, STAN, Python and LaTeX

Fully fluent in English and Norwegian

Experienced public speaker




This resume was made with the R package [pagedown](#).

Last updated on 2022-06-27.

PROFESSIONAL EXPERIENCE

- 2018
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present
- **Statistician**
The Icelandic Heart Association  Reykjavík, Iceland
 - High-dimensional statistical modeling of the effects of serum levels of proteins on heart failure and other outcomes.
 - Diverse data analysis projects to help with publications
 - Writing software that helps coworkers with their research
- 2018
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2021
- **Statistical Consultant**
The Statistical Consulting Center, School of Health Sciences, University of Iceland  Reykjavík, Iceland
 - Assisted graduate students and academic researchers with data analysis and statistical testing
 - Did power calculations and helped plan methodology before data was gathered
 - Wrote methods chapters for research articles
- 2020
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2020
- **Statistician**
Directorate of Health  Reykjavík, Iceland
 - Designed and implemented a Bayesian hierarchical generalized logistic growth model for short-term predictions of diagnosed cases at the start of the COVID19 pandemic.
 - High speed data analysis used to gather actionable intelligence presented via interpretable graphics, tables and text
 - [Designed and developed a detailed dashboard](#)
- 2018
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2018
- **Researcher**
Icelandic Center for Research - RANNÍS  Reykjavík, Iceland
 - Designed and planned a research project and applied for funding
 - One of five projects nominated for the President's Innovation Award
 - Developed personalized risk calculator to predict patients' risk of 30-day readmittance to psychiatric wards
 - Results were presented at the Biomedical and Health Sciences Conference at the University of Iceland.

TEACHING EXPERIENCE

- 2020
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present
- **Statistical Consulting**
Teacher  University of Iceland, Reykjavík, Iceland
- 2019
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2020
- **R Programming**
Teacher  University of Iceland, Reykjavík, Iceland
- 2019
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2020
- **Survival Analysis**
Teaching assistant  University of Iceland, Reykjavík, Iceland