

EMMA SKARSTEIN

Passionate about science communication, data visualization and transparent research. Solid background in mathematics and statistical research.

EDUCATION

- current | 2020 ● **PhD candidate**
Norwegian University of Science and Technology Trondheim, Norway
Measurement error and missing data in explanatory variables. Bayesian modelling using integrated nested Laplace approximation (INLA).
- 2020 | 2018 ● **M.S. in Mathematical Sciences**
Norwegian University of Science and Technology Trondheim, Norway
Thesis: *Accounting for spatial bias in citizen science observations of Norwegian freshwater fish by using an effort spatial field*
- 2018 | 2015 ● **B.S. in Mathematical Sciences**
Norwegian University of Science and Technology Trondheim, Norway
Thesis: *The EM algorithm and some applications in population genetics*

WORK EXPERIENCE

- 2019 fall ● **Teaching assistant**
Norwegian University of Science and Technology Trondheim, Norway
Teaching assistant in the course ST1201 Statistical Methods. Full responsibility for exercise sessions and grading of mandatory exercises for 40 students.
- 2019 | 2018 ● **Accountant**
Effektiv Altruisme Norge Oslo, Norway (remote)
Responsible for payroll of up to 7 employees, as well as all regular routines related to finance and accounting in a charitable organization.
- 2018 fall ● **Teaching assistant**
Norwegian University of Science and Technology Trondheim, Norway
Teaching assistant in the course ST1201 Statistical Methods. Responsible for weekly exercise session.
- 2018 summer ● **Research assistant**
Aalto University Helsinki, Finland
Helped develop an algorithm for automated brain stimulation. Acknowledged in [Tervo et al. \(2020\)](#).



CONTACT INFO

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☎ +47 47641800

SEE MY WORK

🏠 emmaskarstein.github.io

Homepage and blog, with a selection of work and posts.

🔗 [github/emmaskarstein](https://github.com/emmaskarstein)

Code and projects, for example [my TidyTuesday contributions](#) and [various visualization projects](#).

📄 [0000-0002-6347-855X](#)

Published academic articles.

I made this resume in R with the package [pagedown](#).

My source code is available [here](#).

Last updated on 2023-09-27.

SELECTED PUBLICATIONS

- 2023 ● [A joint Bayesian framework for missing data and measurement error using integrated nested Laplace approximations](#)
Biometrical Journal
Skarstein, E.S; Martino, S; Muff, S
- 2022 ● [Insights into the quantification and reporting of model-related uncertainty across different disciplines](#)
iScience
Simmonds, E.G. et al.

VOLUNTEER EXPERIENCE







- current | 2020 ● Representative for temporary employees, statistics group
Department of Mathematical sciences, NTNU
Represented temp. employees in administrative and organizational matters, organized social activities in the statistics group.
- 2019 | 2018 ● Treasurer
Trondheim Student Garden
Full responsibility for the finances of the student garden. Initiated a collaboration with Moholt student kindergarten.
- 2018 | 2017 ● Head of board
Effektiv Altruisme NTNU
Student organization with a goal of streamlining the foreign aid sector and providing new knowledge to students regarding career choices for a better world. 30 active members.

COURSES



- 2022 ● NTNU's Research leadership course


Held by Lars Christian Lassen, Mobilize Strategy Consulting. 2-day course targeted at PhD-candidates, designed develop an understanding of leadership in a research context.
- 2018 ● LAOS teaching assistant course, NTNU

SKILLS




-  **PROGRAMMING** | R, Python, Matlab, C++, CSS (basic), GitHub
-  **R-PACKAGES** | ggplot2, tidyverse
-  **LITERATE CODING** | LaTeX, R markdown, Xaringan slides, Quarto
-  **MICROSOFT OFFICE** | Word, PowerPoint, Excel, Outlook, Teams
-  **GOOGLE** | Drive, Docs, Sheets, Forms
-  **LANGUAGES** | English (native), Norwegian (native), French (B1), Chinese (A1)

GRAPHICAL WORK

-  [TidyTuesday Contributions](#) | 10+ visualizations of data from the TidyTuesday project.
-  [British Monarchs](#) | The lifespans of the last monarchs of Britain and England.

-  [Missing data in INLA](#) | Award winning conference poster, based on a poster for the movie Psycho (1960).

R PACKAGES

-  [inlami](#) | Bayesianske modeller for målefeil og manglende data i INLA (integrated nested Laplace approximations).
-  [valgdata](#) | Enkle funksjoner for å visualisere valgdata fra stortingsvalg.
-  [power.usage.analysis](#) | Explore and analyze personal power consumption data from Elhub.no.