







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 | 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 & 19 (fall) ● **Teaching assistant**
Norwegian University of Science and Technology  Trondheim, Norway
Teaching assistant in the course ST1201 Statistical Methods. Responsible for weekly exercise sessions and grading of exercises.
- 2018 summer ● **Research assistant**
Aalto University  Helsinki, Finland
Helped develop an algorithm for automated brain stimulation. Acknowledged in [Tervo et al. \(2020\)](#).





CONTACT INFO

 emma@skarstein.no
 +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 2024-02-14.



SELECTED PUBLICATIONS

- 2024 ● [The Point Process Framework for Integrated Modelling of Biodiversity Data](#)
Submitted to Environmetrics
Adjei, K.P; Mostert, P; Sicacha-Parada, J; Skarstein, E.S; O'Hara, R.B
- 2023 ● [Recommendations for quantitative uncertainty consideration in ecology and evolution](#)
Trends in Ecology & Evolution
Simmonds, E.G. et al.
- 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.

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)

R PACKAGES

inlami | Bayesian models for measurement error and missing data in INLA (integrated nested Laplace approximations).

valgdata | Simple functions for visualizing Norwegian election results.

power.usage.analysis | Explore and analyze personal power consumption data from Elhub.no.

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).