

# 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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## SEE MY WORK

🏠 [emmaskarstein.github.io](https://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.

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

*Source code is available [here](#).*

*Last updated on 2022-09-29.*

## SELECTED PUBLICATIONS

- 2022 ● [How is model-related uncertainty quantified and reported in different disciplines?](#)  
Review pending.  
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

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