

Lars Nørtoft Reiter

Ph.D. Fellow in Mathematical Sciences

 Allerød, Denmark  +45 61 68 99 81  [Mail](#)  [LinkedIn](#)  [GitHub](#)  [ORCID](#)  [Website](#)

Data Scientist with a interest in governance and strategic decision-making

See also my 3 minute video presentation (in Danish) here [\[link\]](#)

Education

Abbreviations: UCPH: University of Copenhagen, GPA: Grade Point Average

2020 - 2022	MSc. Statistics General profile within statistics and machine learning. GPA: 10.1	<i>UCPH</i>
2016 - 2018	MSc. Physics with a minor in Mathematics. GPA: 8.4	<i>UCPH</i>
2015 - 2016	BSc. Physics with a minor in Mathematics. GPA: 9.2	<i>UCPH</i>
2012 - 2015	BSc. Natural Science and IT Interdisciplinary program combining physics, mathematics and information technology	<i>UCPH</i>

Professional Experience

Abbreviations: UCPH: University of Copenhagen, GINR: Greenland Institute of Natural Resources, ITU: IT University of Copenhagen

2022 - 2025	Ph.D. Fellow Collaboration between UCPH and GINR	<i>Institute of Mathematics, UCPH</i>
<ul style="list-style-type: none">• Developed statistical models for high-dimensional spatiotemporal data• Applied Bayesian inferential techniques to ecological problems• Studied stochastic differential equations• Collaborated interdisciplinary with marine biologists• Published research in peer-reviewed journals• Course responsible & Lecturer in Statistics for Biochemistry 2023/24 and 2024/25		

- | | | |
|--------------------|--|--|
| 2020 - 2022 | Research Assistant
Collaboration between UCPH and GINR | <i>Data Science Lab, UCPH</i> |
| | <ul style="list-style-type: none"> • Analyzed acoustic, motion, and depth data from tags deployed on narwhals • Developed statistical tools for biological data • Presented findings at academic conference | |
| 2019 - 2022 | Assistant Lecturer
Teaching mathematics, statistics, and computer science | <i>ITU & UCPH</i> |
| | <ul style="list-style-type: none"> • Developed exercises and educational material • Classroom teacher • Graded student assignments | |
| 2020 - 2021 | Junior Analyst
Working with heating sector regulation | <i>Danish Utility Regulator</i> |
| | <ul style="list-style-type: none"> • Analyzed heating sector price statistics • Prepared analytical reports for regulatory proceedings • Supported senior analysts | |
| 2018 - 2020 | Lecturer
Teaching mathematics and physics | <i>Virum & Frederiksberg Gymnasium</i> |
| | <ul style="list-style-type: none"> • Taught Mathematics on C and B level. Physics at B level • Prepared teaching material • Served as examiner and external censor | |
| 2014 - 2015 | Student Developer
Working with train-advisory systems | <i>Cubris ApS</i> |
| | <ul style="list-style-type: none"> • Maintained and improved physics-based algorithm for train drivers • Gained experience with C and C# in startup environment | |

Technical Expertise

Abbreviations: CNN: Convolutional Neural Network, RNN: Recurrent Neural Network, GAN: Generative Adversarial Network

Programming Languages: R (incl. tidy, dplyr, TMB, Rstan), Python (incl. Numpy, TensorFlow, PyTorch, Pandas), MATLAB, Maple, C, C#

Data & Analytics: SQL, Power BI, Microsoft Office 365

Machine Learning & Statistics: Support Vector Machines, Random Forests, Gradient Boosting (incl. XGBoost), Neural Networks (incl. CNN, RNN, GAN), Feature Selection and Regularization, Regression Analysis (incl. Generalized and Mixed Models), Monte-Carlo Based Methods (incl. Particle Filters), Extreme-Value Theory, Survival Analysis, Stochastic Differential Equations, State-Space Models

Transferable Skills: Project Management, Analytic reasoning, Communication skills (Structured writing, teaching, public outreach), Collaboration (Team and external partners), Problem Solving, Adaptability, Interdisciplinary Thinking

Modern Skills: Vibe coding, Agent-based modeling, Prompt engineering (Exploration level), XAI (Exploration level)

Publications

- 2025** **Trace elements in narwhal tusks reveal life-history patterns and environmental conditions in the Arctic**
First Author
preprint
- 2025** **Chronicles in Ivory: Estimating the age of narwhals (*Monodon monoceros*) through stochastic modelling of seasonally varying trace elements**
First Author
Submitted to Frontiers in Marine Science
- 2025** **A time warping model for seasonal data with application to age estimation from narwhal tusks**
First Author
arXiv preprint
- 2023** **Using quantile regression and relative entropy to assess the period of anomalous behavior of marine mammals following tagging**
First Author
Ecology & Evolution

Press & Media

- Ongoing** **Towards Data Science**
Author/Writer
Medium Publication
- 2025** **Uhæderlig brug af regnemodeller**
Writer, Reader's letter
Berlingske
- 2025** **Har du egentlig læst den artikel, du danner din mening ud fra?**
Writer, Reader's letter
Jyllandsposten
- 2023** **Talknuser regner ud, om hvaler opfører sig unaturligt**
Featured Researcher, Media Coverage
KU Science News

2023 **Forskningen kvæles af økonomiske interesser**
Writer, Reader's letter
Jyllandsposten

Affiliations

Danish Statistical Society (DSTS): Member

The Green Network for Researchers: Member

Conferences & Seminars

2024 **The 20th Danish Marine Mammal Symposium**
Attendant & Presenter
Kgs. Lyngby, Denmark

2023 **The 29th Nordic Conference in Mathematical Statistics, NORDSTAT**
Attendant
Gothenburg, Sweden

2022 **IMS International Conference on Statistics and Data Science (ICSDS)**
Attendant & Presenter
Florence, Italy

Quick facts

Languages: Danish (Native), English (Fluent - Academic & Professional)

Family: One younger brother, three older siblings. Related to danish geophysicist Inge Lehmann.

Activities outside work: Logical puzzles, Intellectual pursuits/projects, Fitness, Running, Spending time in nature, Board & Card games, Quality time with my spouse Helle

Loves the unorthodox: I love to approach problems from unconventional angles. For example, when I was standing in the voting booth during the municipal election, I got the idea of applying the logic of the electoral system to a research problem at work, which later became my [first published paper](#).

Selected Quotes (updated: 12/07/2025)

- "Every single person who confuses correlation with causation ends up dying." - Unknown
- "Ask questions and be curious. Before you know it, you are just doing what everyone else is doing." - My former employer
- "The greatest enemy of knowledge is not ignorance, it is the illusion of knowledge." - Stephen Hawking

References

Prof. Susanne Ditlevsen

University of Copenhagen

Institute of Mathematics, President of The Royal Danish Academy of Sciences and Letters

susanne@math.ku.dk

Prof. Rasmus Ejlers Møgelberg

IT University of Copenhagen

Section for Theoretical Computer Science

mogel@itu.dk

Jesper Sonne

Ernst & Young

Senior Consultant

Jesper.Sonne@dk.ey.com