

# MAXIMILIAN LINDE

Unit of Psychometrics and Statistics  
Department of Psychology  
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🌐 <https://maxlinde.github.io>

Last updated: February 26, 2023.

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## PERSONAL

Born on August 14, 1992, in Hameln, Germany  
German Citizenship

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## EMPLOYMENT

SEP 2019–ONGOING **PhD in Statistics**  
University of Groningen, The Netherlands  
Expected date of graduation: Sep 2023

SEP 2018–AUG 2019 **Student assistant**  
University of Groningen, The Netherlands  
Statistical and methodological consultant

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## EDUCATION

SEP 2017–AUG 2019 **MSc in Behavioural and Cognitive Neurosciences (Cognitive Neurosciences and Modelling)**  
University of Groningen, The Netherlands  
GPA: 8.5/10 (cum laude)

OCT 2016–FEB 2017 **MSc in Neural and Behavioural Sciences**  
Eberhard Karls University Tübingen, Germany  
Not finished

SEP 2013–AUG 2016 **BSc in Psychology**  
University of Groningen, The Netherlands  
GPA: 9.2/10 (summa cum laude)

SEP 2013–AUG 2014 **Propedeutic Examination BSc in Psychology**  
University of Groningen, The Netherlands  
GPA: 9.0/10 (summa cum laude)

## PUBLICATIONS

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- SUBMITTED **Linde, M.**, Pittelkow, M.-M., Schwarzbach, N. R., & van Ravenzwaaij, D. (2023). Reputation without practice? A dynamic computational model of the unintended consequences of open scientist reputations. Submitted for publication.  
Preprint available at:  
<https://doi.org/10.31222/osf.io/agvnx>
- Linde, M.**, Tendeiro, J. N., & van Ravenzwaaij, D. (2023). Bayes factors for two-group comparisons in Cox regression. Submitted for publication.  
Preprint available at:  
<https://doi.org/10.1101/2022.11.02.22281762>
- Linde, M.**, & van Ravenzwaaij, D. (2023). baymedr: An R package and web application for the calculation of Bayes factors for superiority, equivalence, and non-inferiority designs. Submitted for publication.  
Preprint available at:  
<https://doi.org/10.48550/arXiv.1910.11616>
- Neumann, M., Niessen, A. S. M., **Linde, M.**, Tendeiro, J. N., & Meijer, R. R. (2023). When and why decision makers use algorithms in personnel selection: Stakeholder perceptions, use intentions, and predictive validity. Submitted for publication.  
Preprint available at:  
<https://doi.org/10.31234/osf.io/743hn>
- IN PRESS van Doorn, J., Haaf, J. M., Stefan, A. M., Wagenmakers, E.-J., Cox, G. E., Davis-Stober, C. P., Heathcote, A., Heck, D. W., Kalish, M., Kellen, D., Matzke, D., Morey, R. D., Nicenboim, B., van Ravenzwaaij, D., Rouder, J. N., Schad, D. J., Shiffrin, R. M., Singmann, H., Vasisht, S., Veríssimo, J., Bockting, F., Chandramouli, S., Dunn, J. C., Gronau, Q. F., **Linde, M.**, McMullin, S. D., Navarro, D., Schnuerch, M., Yadav, H., & Aust, F. (in press). Bayes factors for mixed models: A discussion. *Computational Brain & Behavior*.  
<https://doi.org/10.1007/s42113-022-00160-3>
- Heck, D. W., Boehm, U., Böing-Messing, F., Bürkner, P.-C., Derks, K., Dienes, Z., Fu, Q. Gu, X., Karimova, D., Kiers, H. A. L., Klugkist, I., Kuiper, R. M., Lee, M. D., Leenders, R., Leplaa, H. J., **Linde, M.**, Ly, A., Meijerink-Bosman, M., Moerbeek, M., Mulder, J., Palfi, B., Schönbrodt, F. D., Tendeiro, J. N., van den Bergh, D., Van Lissa, C. J., van Ravenzwaaij, D., Vanpaemel, W., Wagenmakers, E.-J., Williams, D. R., Zondervan-Zwijnenburg, M., Hoijsink, H. (in press). A review of applications of the Bayes factor in psychological research. *Psychological Methods*.  
<https://doi.org/10.1037/met0000454>

**Linde, M.**, Tendeiro, J. N., Selker, R., Wagenmakers, E.-J., & van Ravenzwaaij, D. (in press). Decisions about equivalence: A comparison of TOST, HDI-ROPE, and the Bayes factor. *Psychological Methods*.

<https://doi.org/10.1037/met0000402>

**Linde, M.**, & van Ravenzwaaij, D. (in press). Bayes factor model comparisons across parameter values for mixed models. *Computational Brain & Behavior*.

<https://doi.org/10.1007/s42113-021-00117-y>

**Linde, M.**, Tendeiro, J. N., Wagenmakers, E.-J., & van Ravenzwaaij, D. (in press). Practical implications of equating equivalence tests: Reply to Campbell and Gustafson (2022). *Psychological Methods*.

Preprint available at:

<https://doi.org/10.31234/osf.io/xk43y>

2021 Field, S. M., Hoek, J. M., de Vries, Y. A., **Linde, M.**, Pittelkow, M., Muradchanian, J., & van Ravenzwaaij, D. (2021). Rethinking Remdesivir for COVID-19: A Bayesian reanalysis of trial findings. *PLOS ONE*, 16, e0255093.

<https://doi.org/10.1371/journal.pone.0255093>

## SOFTWARE

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R PACKAGES **Linde, M.**, van Ravenzwaaij, D., & Tendeiro, J. N. (2022). baymedr: Computation of Bayes factors for common biomedical designs. R package version 0.1.1-9000.

Retrieved from:

<https://github.com/maxlinde/baymedr>

SHINY APP A web application accompanying the R package baymedr. Available at:

<https://maxlinde.shinyapps.io/baymedr>

## MEDIA CONTRIBUTIONS

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DEC 2020 Blog post about “Decisions about equivalence: A comparison of TOST, HDI-ROPE, and the Bayes factor” for the blog “Bayesian Spectacles”

<https://www.bayesianspectacles.org/preprint-decisions-about-equivalence-a-comparison-of-tost-hdi-rope-and-the-bayes-factor/>

## COMPUTER AND PROGRAMMING SKILLS

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Skill	Experience	Description
R	Advanced	I use R on a daily basis for data analysis and other tasks. R is my main programming language.
Linux/bash	Advanced	Linux is my operating system of choice. I use bash to automate procedures and to solve problems.
L <sup>A</sup> T <sub>E</sub> X	Advanced	I write most of my manuscripts and other formats in L <sup>A</sup> T <sub>E</sub> X.
git	Advanced	I use git for developing my R package and Shiny app, and for local version control of my files.
Shiny	Advanced	I have studied the Shiny framework extensively to build a web application.
JASP, SPSS, G*Power	Advanced	I am proficient in JASP, SPSS, and G*Power, even though I almost never prefer to use them.
Python	Intermediate	I used Python in a machine learning course. Now, I continue learning Python and apply it to personal projects.
HTML, CSS	Intermediate	I learned HTML and CSS to improve Shiny apps. I also programmed my own portfolio website.
Stan, JAGS	Intermediate	I have used Stan and JAGS in several projects for Bayesian modeling.
(R)Markdown	Intermediate	I use (R)Markdown to document code and to write data analysis reports.
SQL	Intermediate	I learned SQL to make myself familiar with databases.
C, C <sup>++</sup>	Basic	I learned the basics of C and C <sup>++</sup> partly because I wanted to speed up functions in R.
Java	Basic	I learned the basics of Java to extend an evolutionary model that was written in Java in R.
Perl	Basic	I learned Perl in combination with advanced regular expressions for a project in which statistics are automatically extracted from abstracts.
Matlab	Basic	I have used Matlab during my studies but have not worked much with it ever since.
Jupyter Notebook	Basic	I have used Jupyter Notebook while learning Python and during a machine learning course.

## TEACHING

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FEB 2022–AUG 2022	<b>Supervision of BSc student</b> Empirical prior distributions in Bayesian Cox regression University of Groningen, The Netherlands
FEB 2022–JUL 2022	<b>Statistics 3 (BSc)</b> Statistical consultation; grading reports University of Groningen, The Netherlands
SEP 2021–FEB 2022	<b>Statistics 2 (BSc)</b> Practicals on how to conduct statistical analyses in JASP University of Groningen, The Netherlands
SEP 2021–NOV 2021	<b>Advanced Statistics (MSc)</b> Practicals on how to program in R University of Groningen, The Netherlands
FEB 2021–JUL 2021	<b>Statistics 3 (BSc)</b> Statistical consultation; grading reports University of Groningen, The Netherlands
OCT 2020–JUL 2021	<b>Supervision of BSc student</b> Different likelihood functions in Cox regression University of Groningen, The Netherlands
SEP 2020–FEB 2021	<b>Statistics 2 (BSc)</b> Practicals on how to conduct statistical analyses in JASP University of Groningen, The Netherlands
SEP 2020–NOV 2020	<b>Advanced Statistics (MSc)</b> Practicals on how to program in R University of Groningen, The Netherlands
FEB 2020–JUL 2020	<b>Research Practicum (BSc)</b> Practicals for a group of 6 students; grading reports University of Groningen, The Netherlands
FEB 2020–JUL 2020	<b>Statistics 3 (BSc)</b> Statistical consultation; grading reports University of Groningen, The Netherlands
SEP 2019–NOV 2019	<b>Cognitive Psychology (BSc)</b> Lectures/seminars for a group of 32 students; grading exams University of Groningen, The Netherlands

## PRIZES

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- MAR 2022 **Snijders-Kouwer prize (150€)**  
Best PhD student paper of 2021 for  
"Linde, M., Tendeiro, J. N., Selker, R., Wagenmakers, E.-J., &  
van Ravenzwaaij, D. (2021). Decisions about equivalence: A  
comparison of TOST, HDI-ROPE, and the Bayes factor (2021).  
*Psychological Methods*. <https://doi.org/10.1037/met0000402>"  
University of Groningen, The Netherlands

## PRESENTATIONS & WORKSHOPS

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- MAR 2022 **Decisions about equivalence: A comparison of TOST, HDI-ROPE, and the Bayes factor**  
Presentation for Snijders-Kouwer prize  
University of Groningen, The Netherlands
- NOV 2021 **Bayesian testing of equivalence, non-inferiority, and superiority with baymedr**  
Workshop together with Don van Ravenzwaaij  
Nothing But The Truth conference
- JUL 2021 **baymedr: An R package for the calculation of Bayes factors for equivalence, non-inferiority, and superiority designs**  
Presentation  
Conference of the International Society for Clinical Biostatistics
- JUL 2021 **Decisions about equivalence: A comparison of TOST, HDI-ROPE, and the Bayes factor**  
Presentation  
Conference of the Society of Mathematical Psychology
- DEC 2020 **Decisions about equivalence: A comparison of TOST, HDI-ROPE, and the Bayes factor**  
Poster presentation  
IOPS winter conference
- OCT 2019 **Bayesian hypothesis testing**  
Workshop together with Don van Ravenzwaaij  
Research School of Behavioural and Cognitive Neurosciences,  
University of Groningen, The Netherlands

## REVIEWING FOR

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- Journal of Trial and Error
- Computational Brain and Behavior

## FURTHER EDUCATION

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- NOV 2020–DEC 2020 **Statistical Consulting to Behavioral Scientists (IOPS)**  
University of Amsterdam & Leiden University (online)
- OCT 2020–DEC 2020 **Optimization and Numerical Methods (IOPS)**  
Catholic University Leuven (online)
- OCT 2020–NOV 2020 **Mathematical Statistics (IOPS)**  
University of Groningen, The Netherlands (online)
- SEP 2020 **What is Psychometrics? (IOPS)**  
University of Amsterdam (online)
- JUN 2020 **Introduction to Bayesian Modeling (SMiP/IOPS)**  
Mannheim University (online)
- JUN 2020 **Advanced Topics in R (SMiP/IOPS)**  
Mannheim University (online)
- JAN 2020 **Statistical Learning (IOPS)**  
Leiden University

## PROFESSIONAL MEMBERSHIP

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- SEP 2019–ONGOING **Inter-University graduate school of psychometrics and sociometrics (IOPS)**

## LANGUAGES

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**German:** Mother tongue

**English:** Fluent

**Dutch:** Basic

**French:** Basic