

MAXIMILIAN LINDE

Unit of Psychometrics and Statistics
Department of Psychology
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Last updated: February 23, 2023.

PERSONAL

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

EDUCATION

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

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

PUBLICATIONS

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., Hoijtink, 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

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

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

| 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 ^A T _E X | Advanced | I write most of my manuscripts and other formats in L ^A T _E 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 ⁺⁺ | Basic | I learned the basics of C and C ⁺⁺ 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. |

TEACHING

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

PRIZES

- 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

- 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
- 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

- Journal of Trial and Error
- Computational Brain and Behavior

FURTHER EDUCATION

- 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

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

LANGUAGES

German: Mother tongue

English: Fluent

Dutch: Basic

French: Basic