Maximilian Linde

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Last updated: March 20, 2023.

Personal

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

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

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

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   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., 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

2023   **Linde, M.**, & van Ravenzwaaij, D. (2023). Bayes factor model comparisons across parameter values for mixed models. *Computational Brain & Behavior*, *6*, 14–27.
https://doi.org/10.1007/s42113-021-00117-y

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., Vasishth, 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. (2023). Bayes factors for mixed models: A discussion. *Computational Brain & Behavior*, *6*, 140–158.
https://doi.org/10.1007/s42113-022-00160-3

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.
LaTeX	Advanced	I write most of my manuscripts and other formats in LaTeX.
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.
Jupyter Notebook	Basic	I have used Jupyter Notebook while learning Python and during a machine learning course.

TEACHING

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

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

- 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