

# WARD BERND EILING

Bilthoven, Utrecht, the Netherlands [◇ w.b.eiling@uu.nl](mailto:w.b.eiling@uu.nl) [◇ linkedin.com/in/wardeiling](https://www.linkedin.com/in/wardeiling)

## Personal Profile

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Driven Research Master's student in Methodology and Statistics at Utrecht University with a strong academic foundation in communication (writing and presenting), programming, data visualization, and statistical modeling.

## Education

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<b>Utrecht University</b> Research Master, Methodology and Statistics (English)	<b>Sep. 2023 – May 2025 (Expected)</b> First-year GPA: 8.7/10.0
<b>University of Groningen</b> Honours College (extra programme of 45 ECTS; English)	<b>May 2021 – July 2023</b>
<b>University of Groningen</b> Bachelor of Science, Psychology (English)	<b>Sep. 2020 – Aug. 2023</b> Graduated <i>Cum Laude</i> GPA: 8.7/10.0

## Research Experience

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<b>Utrecht University, Master Thesis Project</b> ↔ Prof. Ellen Hamaker & Dr. Jeroen Mulder	<b>Sep 2024 – present</b>
<ul style="list-style-type: none"><li>Investigated bias in treatment effect estimation in multilevel linear models with randomized treatment and time-varying endogenous covariates by performing large-scale simulations (parallelized in R) and creating causal graphs.</li><li>Managed reproducible research compendium on GitHub.</li><li>Presented preliminary findings and wrote intermediary research report independently.</li></ul>	
<b>University of Groningen Research Intern</b> ↔ Dr. Sebastiaan Mathôt & MSc Veera Ruuskanen	<b>Oct. 2022 – July 2023</b>
<ul style="list-style-type: none"><li>Investigated state-dependent pupil dilation and feature selectivity in an experimental study.</li><li>Drafted Ethics Committee proposals, conducted laboratory data collection and calibrated eye trackers.</li><li>Computed perceptual sensitivity and analyzed data using regression, ANOVA, and ROC curves in R.</li></ul>	
<b>University of Groningen, Bachelor Thesis Project</b> ↔ Dr. Laura Bringmann & Prof. Casper Albers	<b>Sep. 2022 – July 2023</b> 15 ECTS Grade: 9/10
<ul style="list-style-type: none"><li>Investigated model misspecification in VAR(1) models (related to non-stationarity) by performing a simulation study and empirical analysis in R, comparing cross-validation techniques and predictive accuracy metrics (e.g., MSPE, Mahalanobis distance).</li><li>Collaborated with a research master's student and presented findings through an oral presentation and final report.</li></ul>	
<b>University of Groningen Research Intern</b> ↔ Dr. Brian D. Ostafin	<b>Sep. 2021 – Aug. 2022</b>
<ul style="list-style-type: none"><li>Explored the relationship between awe induction and perceived meaning in life in collaboration with fellow students.</li><li>Designed a Qualtrics survey and conducted data collection.</li><li>Analyzed data using ANOVA, planned comparisons, and moderation analyses in SPSS.</li><li>Delivered the methods and results of a research report and presented the findings to an audience.</li></ul>	

## Work Experience

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<b>Utrecht University, Society in the Loop Project</b> Research Assistant (8 hours/week)	<b>Oct. 2024 – present</b>
<ul style="list-style-type: none"><li>Explored available open data and created data visualizations to support stakeholder conversations.</li><li>Identified underrepresented groups or facilities within data sets.</li><li>Explored 3D mapping tools (e.g., <a href="#">Netherlands3D</a>) for digital twin applications.</li></ul>	
<b>Utrecht University, Advanced course on using Mplus</b> Teaching Assistant ↔ Prof. Ellen Hamaker & dr. Jeroen Mulder	<b>Aug. 2024</b>
<ul style="list-style-type: none"><li>Assisted in the teaching of the Summer School course <a href="#">S23 Advanced Course on Using Mplus</a>, covering topics such as longitudinal mixture modeling, causal inference in cross-lagged panel research, and dynamic structural equation modeling (DSEM).</li></ul>	
<b>Utrecht University, Introduction to Research Methods</b> Teaching Assistant (6 hours/week)	<b>Sep. 2023 – Nov. 2023</b>
<ul style="list-style-type: none"><li>Actively taught research methods to two practical groups consisting of more than 20 Bachelor's students.</li></ul>	
<b>University of Groningen, Educational Institutional Research</b> Research Assistant (12 hours/week)	<b>Sep. 2022 - Sept. 2023</b>

- Improved Qualtrics surveys regarding the state of education (for students and teachers) in different faculties.
- Preprocessed data with SPSS syntax and made factsheets with advanced Microsoft Excel formula syntax.

**University of Groningen, Statistics 2** *Teaching Assistant (10 hours/week)*

**Aug. 2022 – Jan. 2023**

- Supervised/taught two practical groups of about 15 students each.
- Assisted students with manual calculations and software exercises (JASP/SPSS) pertaining to varying types of regression (e.g., simple linear, multiple, logistic) and ANOVA.

**Team050** *Ambulatory Attendant (6 hours/week)*

**Mar. 2022 – Dec. 2022**

- Provided emotional and practical support to children, helping alleviate parental burdens.
- Motivated clients to engage in educational activities and guided clients with planning and structure, resulting in the improvement of grades.
- Enhanced clients' sense of self by providing emotional support.

## Awards

**Judicium Cum Laude** Graduated with the judicium Cum Laude for the Bachelor of Psychology.

**2023**

**Best in Class, Data Visualization**

**2021**

Awarded (a book) for creating the best Tableau-based data visualization dashboard in the "Analyzing Data" course.

## Projects & Extracurricular Courses

**Non-Stationarity and Model Selection** *Researcher*

**June 2024 – present**

↪ M.Sc. Yong Zhang, Dr. Anja Ernst, Dr. Ginette Lafit, Dr. Laura Bringmann

- Co-authored a manuscript (under submission) for the British Journal of Mathematical and Statistical Psychology, focusing on in-sample and out-of-sample model selection techniques for non-stationary autoregressive (AR) models.
- Evaluated non-stationary AR models (e.g., time-varying, hidden Markov, regime-switching, threshold) using information criteria (AIC, AICc, HQ, BIC) and cross-validation errors on empirical psychopathological dataset.
- Designed and conducted a systematic review on ecological momentary assessment studies using Rayyan.

**University of Groningen** *A gentle introduction to deep learning*

**Dec. 2022**

- Explored topics in 1) machine learning and neural networks; 2) gradient descent, vanishing gradients, training networks; 3) convolutional neural networks and variants; and 4) how to use transformer networks.

**Great Learning Academy** *Introduction to R*

**Sept. 2020 – Jan. 2021**

- The contents of this course pertained basics of R (e.g., basic programming, accessing packages, writing functions).

## Technical Skills

**Programming Languages** R, Python & MATLAB.

**Markup Languages** Markdown (e.g., Quarto) & L<sup>A</sup>T<sub>E</sub>X.

**Software Applications** RStudio, GitHub, SPSS, JASP, Tableau, Zotero, ATLAS.ti, Anaconda, Mendeley, Rayyan, Microsoft Office & Adobe Acrobat DC.

**Languages** Dutch (native) & English (fluent).

**Miscellaneous** Exceptional analytical and problem solving skills, strong verbal and written communication skills.

## Selected Coursework

**M.Sc. Methodology & Statistics** (grade)

**B.Sc. Psychology (3<sup>rd</sup> year)** (grade)

Bayesian Statistics (10/10)

Experimental Skills (10/10)

Causal Inference and SEM (8.5/10)

Programming for Psychologists (9.5/10)

Computational Inference with R (9/10)

Introduction to Qualitative Research Methods (8.5/10)

Fundamentals of Statistics (8.5/10)

Statistical Solutions to Research Problems in Psychology (9.5/10)

Introduction to Biomedical Statistics (8/10)

Philosophy of Psychology (9/10)

Survey Data Analysis (9/10)

## Interests

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| <b>Academic</b>  | Causal discovery, Bayesian statistics, high dimensional data analysis, time-series analysis, philosophy of science, clinical versus statistical prediction, qualitative research & missing data. |
| <b>Health</b>    | Mindfulness, yoga, meditation, running, skiing, snowboarding, cycling, windsurfing & playing guitar.   |
| <b>Computers</b> | Building electronics projects at home & optimizing work-flow.  |
| <b>Other</b>     | Reading novels (e.g., Fyodor Dostoevsky) & philosophy (e.g., Alan Watts, Seneca, Marcus Aurelius).   |