

Judith Neve, MSc

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Key skills

- Statistics and probability
- Machine learning
- Statistical programming in R
- Manipulation of large datasets
- Data visualisation
- Data analysis
- Experimental design
- (Science) communication
- Organisation and prioritisation

Education

2021—2023 **Methodology and Statistics for the Behavioural, Biomedical, and Social Sciences MSc** (*cum laude*), *Utrecht University*, Netherlands

- Honed my analytical mindset and statistical knowledge, working on a wide variety of datasets with different challenges and conducting exploratory data analyses as well as hypothesis testing.
- Followed the **Applied Data Science track** as part of my electives, covering data visualisation, supervised and unsupervised learning, regularisation, time series, deep learning, and natural language processing.
- Successfully balanced and prioritised my thesis with courses, teaching, and learning new tools.
- **Thesis project** (conducted at the University Medical Centre): Evaluating hyperparameter tuning procedures in predictive modelling considering both model predictive performance and training time.
 - Gained insight into machine learning and issues faced in predictive modelling in medical contexts.
 - Identified gaps in the literature and developed a research question to investigate.
 - Designed and programmed a complex simulation study in R, executed via slurm on a cluster computer.
 - Manipulated, visualised and analysed results, providing invaluable insights into model training.
 - [Report](#) (soon to be submitted for publication), [GitHub repository](#), [results dashboard](#).

2017—2021 **Psychology and Statistics BSc (First Class Honours)**, *University of Glasgow*, United Kingdom

- Developed an understanding of interdisciplinary approaches by leveraging methodologies from each subject to inform my approach in the other subject.
- Balanced courses in two disciplines that operated independently by prioritising and meeting concurrent deadlines, consistently maintaining top performance in both subjects.
- **Dissertation project**: Assessing the evolution of data sharing practices in the psychological literature.
 - Integrated three different datasets on the same topic to extend previous findings.
 - Analysed the data using generalised additive models and (polynomial) logistic regression.
 - Developed the analysis framework in R using simulated data prior to data collection, facilitating streamlined data processing within tight deadlines and ensuring efficient analysis.
 - [Preprint](#) (accepted for publication in *Meta-Psychology*), [Open Science Framework project](#).

Work experience

- Nov.—Dec. 2021, **Teaching Assistant**, *Department of Psychology, Utrecht University*, Netherlands
- May—Aug. 2022,
 - Delivered statistics tutorials, employing clear communication and developed interpersonal skills to explain complex concepts and accommodate varying levels of understanding among students.
 - Proactively assessed students' homework assignments prior to tutorial sessions, identifying knowledge gaps and adapting teaching materials to provide targeted support and promote clarity.
- Nov.—Dec. 2022,
 - Collaborated with a small team to create online instructional materials with interactive learning tools, effectively conveying complex ideas and processes in bite-sized formats to enhance student comprehension and retention.
- Oct. 2021—Apr. 2022, **Research Assistant**, *Department of Methodology and Statistics, Utrecht University*, Netherlands
- Spearheaded the comprehensive testing and troubleshooting of the R package CTmeta, ensuring optimal accuracy and efficiency for its users.
 - Demonstrated exceptional attention to detail in identifying and resolving errors in the code, resulting in a seamless and error-free user experience.
 - Contributed to the accessibility and usability of the package by reviewing and revising its documentation, resulting in clearer instructions for users.

- Oct. 2021 **Teaching Assistant**, *Department of Computing Science, Utrecht University*, Netherlands
- Leveraged statistical expertise to identify relevant documents for each of 150 statistical queries in an AI study, supporting research and development efforts.
- June—Dec. 2020 **Research internship**, *At Work Kft.*, Hungary
- Acquired expertise in factor analysis through leading exploratory and confirmatory factor analyses on the Hungarian translation of the Short Dark Triad questionnaire.
 - Third author on the [resulting publication](#), which validates the psychometric questionnaire for use.
- June—Aug. 2019 **Voluntary research work**, *Department of Psychology, University of Glasgow*, United Kingdom
- Thoroughly cleaned a linguistic dataset, requiring close attention to detail and critical thinking to ensure the quality and integrity of the dataset.
 - Led numerical and graphical exploratory analyses, now used in [Dr. Nordmann's annual presentation](#) on the psychology of swearing.
 - Conducted a literature search to contextualise the results.
- June 2018 **Field investigator**, *MC2*, Prével, France
- Collected responses to a marketing questionnaire in a restaurant setting, effectively engaging with participants to gather high-quality data in a fast-paced environment.

Community engagement

- 2020—2021 **Vice President Treasurer**, *Glasgow University LGBTQ+ Society*, United Kingdom
- Oversaw the society's financial management, identifying and correcting inconsistencies in previous reports and ensuring accurate record-keeping.
 - Cooperated with the President and Vice President Secretary to effectively manage an 18-person committee and ensure the smooth operation of one of the largest student societies in Scotland.
 - Coordinated efforts to maintain weekly society events and activities during the COVID-19 pandemic, positioning the society as one of the few on campus to continue providing meaningful engagement and community support for students.
 - Listened to society members' requests and adapted strategies to meet their needs.
- 2019—2020 **International Officer**, *Glasgow University LGBTQ+ Society*, United Kingdom
- Worked cooperatively with the society committee to ensure the smooth running of the society.
 - Organised and moderated a range of events aimed at LGBTQ+ students.
 - Acted as a key point of contact between international students and the society committee, providing support and guidance as needed.
 - Led fortnightly coffee meetups to provide a relaxed and welcoming environment for international students to socialise and connect with one another.

IT skills

- **R**, proficient
 - Familiar with base R and tidyverse.
 - Data manipulation, visualisation, and analysis.
 - Writing functions.
 - Data simulation.
 - Reproducible reports in R Markdown.
 - Shiny apps.
- **Python**, intermediate
 - Data wrangling, visualisation and analysis using e.g. pandas, seaborn, scikit-learn.
 - Object manipulation.
 - Writing functions.
- **SQL**, intermediate
 - Writing complex queries extracting data from one or multiple tables.
 - Extracting summaries from the data.
- **JASP**, **SPSS**, intermediate
 - Fitting models.
- **LaTeX**, proficient
 - Creation of documents.
 - Beamer.
 - Personalisation of templates.
- **Mplus**, intermediate
 - Data analysis.
 - Fitting various structural equation models.
 - Interpretation of output.
- **GitHub**, intermediate
 - Cooperation on projects using forks or the same repository.
 - Version control.
 - GitHub pages.
- **slurm**, basic
 - Running large batches of R scripts in parallel.
- **Tableau**, currently taking a course.
- **Power BI**, currently taking a course.

Prizes and awards

- 2021 **Distinguished first class Honours**, *University of Glasgow*, United Kingdom
Among the 25% highest performing first class honours students in Psychology.
- 2021 **Research Methods prize**, *University of Glasgow*, United Kingdom
Best final year project in research methods.
- 2020 **SAS prize with high distinction**, *University of Glasgow*, United Kingdom
Best final year project on Bsc Psychology and Statistics.
- 2020 **Merit list Psychology level 3**, *University of Glasgow*, United Kingdom
Figuring on the list of psychology students obtaining an A grade in academic year 2019/2020.
- 2018 **Merit list Psychology level 1**, *University of Glasgow*, United Kingdom
Figuring on the list of psychology students obtaining an A grade in academic year 2017/2018.

Languages

English, *fluent*

French, *native*

Hungarian, *fluent*

Publications

Neve, J., & Rousselet, G. (2021). The Evolution of Data Sharing Practices in the Psychological Literature. *Meta-Psychology (undergoing copyediting)*. <https://doi.org/10.31234/osf.io/3xdja>

Szabó, Z. P., Czibor, A., Neve, J., Restás, P., Hadarics, M., Szijjártó, L., Simon, E., Marót, J. L., Kun, Á., & Bereczkei, T. (2021). Development of the hungarian version of the short dark triad questionnaire (SD3-HU): Psychometric properties and validity. *Current Psychology*. <https://doi.org/10.1007/s12144-021-02470-4>