

Judith Neve, MSc

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Key skills

- Statistics and probability
- Machine learning
- Programming in R and Python
- Parallel computing
- Manipulation of large datasets
- Data visualisation and analysis

IT skills

- R, proficient.
- LaTeX, proficient.
- Python, intermediate.
- SQL, intermediate.
- Excel, intermediate.
- JASP, SPSS, intermediate.
- Mplus, intermediate.
- GitHub, intermediate.
- slurm, basic.
- HTML, CSS, basic.
- Tableau, currently self-teaching.
- Power BI, currently self-teaching.

Education

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

- Followed the **Applied Data Science track**, covering data visualisation, supervised and unsupervised learning, regularisation, time series, deep learning, and natural language processing.
- **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** as used for predictive modelling in medicine.
 - Designed and programmed 3 complex simulation studies in **R (tidyverse, caret, ranger)**, executed via **slurm** on a high performance computer.
 - Manipulated, visualised and analysed large datasets by **aggregating thousands of files**, providing invaluable insights into model training.
 - Innovated in results visualisation, allowing interactive exploration via **R Shiny**.
 - Generated a report in **R Markdown (knitr, xtable)** to mitigate transcription errors in numerical data.
 - [Report](#) (soon to be submitted for publication), [GitHub repository](#), [results dashboard in R Shiny](#).
- **Other key projects**
 - Recommender systems algorithms programmed in **Python (pandas, numpy, seaborn, scikit-learn)**.
 - [Poisonous mushroom classification algorithm](#) programmed in **R (tidyverse, randomForest, xgboost, rpart)**. Collaborated upon using **GitHub**.
 - [Gibbs sampler](#) programmed in **R (bain)**.
 - Multiple imputation in the European Social Survey performed in **R (mice)**.

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

- **Dissertation project**: Assessing the evolution of data sharing practices in the psychological literature.
 - Using **R**, processed and combined three different datasets on the same topic to extend previous findings.
 - Analysed the data using **generalised additive models** and **(polynomial) logistic regression**.
 - Following best practices guidelines, developed the analysis framework in **R** using simulated data prior to data collection, facilitating streamlined data and analysis.
 - [Preprint](#) (accepted for publication in *Meta-Psychology*), [Open Science Framework project](#).

Work experience

Nov.—Dec. 2022, **Teaching Assistant**, *Department of Psychology, Utrecht University*, Netherlands

- Delivered statistics tutorials, employing **clear communication** 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.
- Collaborated with a small team to create online instructional materials with interactive learning tools in **Grasple**, effectively conveying complex ideas and processes in bite-sized formats to enhance student comprehension and retention.

- Oct. 2021— **Research Assistant**, *Department of Methodology and Statistics, Utrecht University, Netherlands*
- Apr. 2022
- 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.
- June—Dec. **Research internship**, *At Work Kft., Hungary*
- 2020
- Acquired expertise in factor analysis through leading exploratory and confirmatory factor analyses in **R** 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. **Voluntary research work**, *Department of Psychology, University of Glasgow, United Kingdom*
- 2019
- 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 in **R (tidyverse, tidytext)**, now used in [Dr. Nordmann's annual presentation](#) on the psychology of swearing.
 - Conducted a literature search to contextualise the results.

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.
- 2019—2020 **International Officer**, *Glasgow University LGBTQ+ Society, United Kingdom*
- 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.

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 performance in Year 3 of 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>