

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

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.
 - 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. 2021, **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—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. **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.
- 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

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

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.

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>