Judith Neve, MSc

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Key skills

- Statistics and probability
- Statistical programming
- Machine learning
- Data manipulation
- Data visualisation and analysis
- Experimental design
- (Science) communication
- Organisation and prioritisation
- Teamwork

Education

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

- Honed my 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 and teaching.
- **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 in *Statistics in Medicine*), GitHub repository, Shiny app.

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

- Delivered statistics tutorials, employing clear communication to explain complex concepts and accommodating 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 closely 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 and conducted a literature search to contextualise the results.
- ○ Resulting findings and visualisations are used in Dr. Nordmann's annual presentation on the psychology of swearing.

June 2018 **Field investigator**, *MC2*, Préval, 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.
- ○ Collaborated 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 regular 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
- ○ Worked collaboratively 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 regular coffee meetups to provide a relaxed and welcoming environment for international students to socialize and connect with one another.

▬▬▬ IT skills

- ○ **R**, proficient
  Experience: 6 years.
  - Familiar with base R and tidyverse.
  - Data manipulation, visualisation, and analysis.
  - Writing functions.
  - Data simulation.
  - Reproducible reports in R Markdown.
  - Shiny apps.
- ○ **LaTeX**, proficient
  Experience: 3 years.
  - Creation of documents.
  - Beamer.
  - Personalisation of templates.
- ○ **Python**, intermediate
  Experience: 1 year.
  - Data wrangling, visualisation and analysis using e.g. pandas, seaborn, scikit-learn.
  - Manipulation of variables and dictionaries.
  - Writing functions.

- ○ **JASP, SPSS**, intermediate
  Experience: 6 months.
  - Fitting models
- ○ **Mplus**, intermediate
  Experience: 3 months.
  - Data analysis.
  - Fitting various structural equation models.
  - Interpretation of output.
- ○ **GitHub**, intermediate
  Experience: 2 years.
  - Collaboration on projects using forks or the same repository.
  - Version control.
  - GitHub pages.
- ○ **slurm**, basic
  Experience: 3 months.
  - Running large batches of R scripts in parallel.
  - Collecting resulting data for further, smaller-scale analyses.

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, *C2*
French, *C2*
Hungarian, *C1*

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