Judith Neve, MSc

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Key skills

- Data visualisation and analysis
- Statistics and probability
- Simulation studies
- Machine learning
- Model training and tuning
- Statistical programming
- Problem solving
- (Science) communication
- Time management

Education

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

Applied Data Science track, covering exploratory analysis, data visualisation, supervised and unsupervised learning, regularisation, deep learning and natural language processing.

Thesis project focus: Evaluating hyperparameter tuning procedures considering both model predictive performance (including but not limited to accuracy) and training time, to obtain models that perform well without causing unnecessary strains on resources.

- GitHub repository.
- Results visualisation (Shiny app).
- Successfully designed and programmed a complex, iterative, simulation study and analysed results, providing invaluable insights into model training.
- Soon to be submitted for publication in a scientific journal. This has the potential to significantly impact current model tuning practices.

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

Dissertation project focus: Assessing the evolution of data sharing practices in the psychological literature.

- Preprint (accepted for publication in Meta-Psychology).
- Open Science Framework project.
- Collected original data and combined it with pre-existing data in a different format.
- Developed Generalised Additive Models and (polynomial) logistic regression to analyse the data.

Work experience

Nov.2021— Dec. 2021 **Teaching Assistant**, *Department of Psychology, Utrecht University*, Utrecht, Netherlands

- **Skills developed**: Communication of statistical concepts, leadership, teamwork, attention to detail, organisation, time management, integrating feedback.
- Delivered tutorials explaining intricate statistical concepts in straightforward terms, adapting my communication strategies to accommodate varying levels of understanding among students.
- Proactively reviewed students' homework assignments before each session and tailored teaching materials to address identified knowledge gaps.
- Created and updated online instructional materials for statistics courses, incorporating interactive learning tools to enhance student comprehension and retention.
- Updated all analyses from SPSS to JASP, following a curriculum switch.

Oct. 2021— Apr. 2022 **Research Assistant**, *Department of Methodology and Statistics, Utrecht University*, Utrecht, Netherlands

- **Skills developed**: Automation, R package building, attention to detail, teamwork, communication.
- 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 and more concise instructions for users.

Oct. 2021	**Teaching Assistant**, *Department of Information and Computing Science, Utrecht University*, Utrecht, Netherlands
	○ **Skills developed**: Critical thinking.
	○ 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 under the supervision of Dr. Zsolt Péter Szabó**, *At Work Kft.*, Budapest, Hungary
	○ **Skills developed**: Communication of statistical results, psychometric test validation, exploratory data analysis.
	○ 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 questionnaire for use.
June—Aug. 2019	**Voluntary research work under the supervision of Dr. Emily Nordmann**, *Department of Psychology, University of Glasgow*, Glasgow, United Kingdom
	○ **Skills developed**: Communication, critical thinking, text mining basics, exploratory data analyses, data cleaning.
	○ Thoroughly cleaned a language use dataset prior to conducting exploratory analyses, requiring close attention to detail and critical thinking to ensure the quality and integrity of the dataset.
	○ Led exploratory analyses and conducted a literature search to contextualize the results.
	○ Resulting findings are used in Dr. Nordmann's annual presentation on the psychology of swearing.
June 2018	**Field investigator**, *MC2*, Préval, France
	○ **Skills developed**: Communication, time management, attention to detail.
	○ 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*
	○ **Skills developed**: Leadership, teamwork, teambuilding, communication, organisation.
	○ 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*
	○ **Skills developed**: Teamwork, communication, organisation.
	○ 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.

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.

IT skills

R, *proficient*

Experience: 6 years.
- Familiar with base R and tidyverse.
- Data wrangling, visualisation, and analysis.
- Writing functions.
- Data simulation.
- Reproducible reports in R Markdown.

Mplus, *intermediate*

Experience: 3 months.
- Data analysis.
- Fitting various structural equation models.
- Interpretation of output.

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

LaTeX, *proficient*

Experience: 3 years.
- Creation of documents.
- Beamer.
- Personalisation of templates.

GitHub, *intermediate*

Experience: 2 years.
- Collaboration on projects using forks or the same repository.
- Version control.
- GitHub pages.

Cluster computing, *basic*

Experience: 3 months.
- Running large batches of R scripts in parallel.
- Collecting resulting data for further, smaller-scale analyses.

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