Adam Maghout

Student at Utrecht University
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Personal Profile

With a strong academic foundation in statistics and practical experience in educational research, I am eager to contribute to evidence-based evaluation and assessment projects. I bring extensive teaching experience, strong coding skills in R, and a deep interest in educational measurement and psychometrics. My key interests include item response theory, survey methodology, and supporting inclusive, data-driven decision-making in education.

Education

Utrecht University, Utrecht   2023–2025
MSc Methodology and Statistics for the Behavioural, Biomedical and Social Sciences, Cum Laude
GPA: 8.31
- Conducting a thesis in partnership with the International Baccalaureate on *'Evaluating the Impact of Passing Conditions and Retakes on Misclassification in the IB's Diploma Programme'*, supervised by Anton Béguin.
- Courses taken: Survey Data Analysis, Multivariate Statistics, Fundamentals of Statistics, Computational Inference with R, Introduction to Multilevel Modelling and Psychometrics, Causal Inference and Structural Equation Modelling, Bayesian Statistics, Introduction to Biomedical Statistics, Contemporary Datasets, Data Science and Psychometrics, Bayesian Psychometrics.
- Track: Contemporary Psychometrics.

University of Leeds, Leeds, West Yorkshire, United Kingdom   2020–2023
BSc (Hons) Maths and Music, First Class Honours
GPA: 76
- Completed a final year project on *'Group Sequential Clinical Trials'* methodology, supervised by Stuart Barber, awarded a first-class grade.
- Gained training in R for linear regression and mixed models.
- Conducted research in music psychology exploring the relationship between music use and stress.

Professional Experience

Intern in Educational Measurement
International Baccalaureate Organisation, The Hague   2024-2025
Performed statistical analyses to insure the quality of the international baccalaureate diploma programme. Investigated methods for calculating reliability estimates in presence of optional items. Presented at the 38th IRT workshop organised by the University of Twente.

Research Assistant for Katharina Meitinger
Utrecht University, Utrecht   2024
Coded responses in English, Dutch, German, and French for a survey investigating preferences concerning gender measures in survey data.

Research Assistant for Angelo Moretti
Utrecht University, Utrecht   2024
Conducted a literature review of papers on composite indicators in small area estimation. Searched online databases to build a formatted bibliography for the lead researcher.

Teaching Assistant for Utrecht Summer School: 'Multivariate Analysis'
Utrecht University, Utrecht   2024
Prepared resources for discussion sessions. Led tutorial sessions, explaining basic multivariate analysis techniques to social science students, and provided SPSS support during tutorials.

Research Assistant for Mirjam Moerbeek
Utrecht University, Utrecht   2024

Developed an R Shiny application to find optimal allocation ratios in group sequential clinical trials. Conducted a simulation study and prepared multilevel model exercises for summer courses.

French Tutor
Preply, Remote 2021–2024
Led over 1000 hours of one-on-one French tutorials with international students. Achieved the Preply Super Tutor badge in 2023.

Welcome Team Lead
University of Leeds, Leeds 2022–2023
Led teams organising events promoting diversity and inclusion. Supervised a shuttle pick-up service from Manchester Airport to the university. Promoted from Assistant to Lead after 3 months for assiduity and motivation.

Projects

Academic Replication – Utrecht University
Github
Language: R
Replicated the findings of Homes et al. (2021). Created an academic poster to present the results and methodology.

Improving the LISS Panel Imputation Procedure – Utrecht University
R Shiny
Language: R
Created an R Shiny app to demonstrate the limitations of the LISS panel imputation procedure. Improved the procedure using multiple and stepwise imputation methods in R.

Additional Qualifications and Technical Skills

Staatsexamens Nederlandse taal Nt2 – Lezen en Luisteren (2024)
Certifies B1 level in reading and listening in Dutch.

Cambridge "C1 Advanced" Diploma, A Grade (2019)
Certifies C2 level in English.

Technical Skills
Programming languages: R, Python, LaTeX, SAS, SPSS, Fortran.
Software: Microsoft Office, Adobe Creative Cloud (Photoshop, Premiere Pro, After Effects, Animate), Ableton Live.

Extra-Curricular Activities

Utrecht Social Science Synapse Secretary
Utrecht University, Utrecht 2024–present
Responsible for official student association documents and organizing social events.

Leeds University Union Pantomime Society President
University of Leeds, Leeds 2022–2023
Organised two theatre productions. Scheduled committee meetings, created musical scores, and represented the society at university events.

Volunteer Artist Assistant
The Leeds International Piano Competition, Leeds 2021
Assisted competitors and helped with event organization.

Languages

| English: Native. | French: Native. | German: C1. | Dutch: B1. |