Curriculum Vitae

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Summary

As a motivated, creative, and flexible PhD researcher, I have a strong affinity for experimental design and a deep understanding of quantitative methodological and analytical processes. During my work, I examine existing data and literature to identify research gaps, generate hypotheses, and define tasks and goals to answer questions with collected data.

My work required me to learn new quantitative methods, learn new programming languages, and develop pipelines to be as efficient as possible, all skill that I would gladly put to good use. In addition, I have developed leadership and teaching skills, working in teams with varied strengths, and fostered strong social bonds.

- Skills in experimental design, data collection, and statistical analysis
- A good grip on programming languages for data manipulation and computation statistics (Matlab, Python, R)
- Strong interpersonal skills that help me to forge strong bonds within a team and engage with an audience when presenting new information.

Highlights

- Experience in ***various research studies*** involving the design, execution, and analysis of Autonomic, Behavioral, and Cognitive measures.
- ***Analyses of datasets*** using advanced statistical methods, both parametric and non-parametric, and the reporting of the results concisely and understandably.
- ***Presenting results*** at symposia and conferences to a non-expert audience using non-scientific language, yet still explaining the relevance and meaning of the results.
- ***Teaching experience*** in problem-based learning on various topics within psychology, neuroscience, and statistics, and being nominated for the 2020 teaching award. In addition, I **Developed a PhD-level course** on **advanced statistical methods**, supervised and trained students in the adequate use of EEG data acquisition, and trained interns to perform neuropsychological assessments from testing to diagnosis.

Work Experience

PhD Candidate
Maastricht University
17-10-2016 to present

During a PhD, existing data and literature are examined to identify research gaps in order to generate hypotheses. Based on this research, specific tasks and goals are defined, and data is collected.

For this project, behavioral and neural (EEG) data were collected, processed, and analyzed using advanced quantitative methods. The results were interpreted and communicated back to experts through scientific papers and non-experts through presentations.

In addition, a portion of the work involved teaching, which focused on Psychology, Statistics, research methods, and computer skills (such as excel).

- Created and taught a new course in Linear Mixed Models for repeated measures designs

Statistician
Hulp bij SPSS / Solid Statistics
01-05-2015 to 17-10-2016

- Statistical analyses for various types of datasets
- Complex statistical analyses for medical data
- Maintenance and writing for the website

Freelance Work
01-8-2014 to 01-05-2015

- Digitizing of screening questionnaires
- Statistical analyses and consultation of various kinds of datasets

Combined Clinical and Research Internship
01-10-2013 to 31-7-2014
KNP Practice for Child Neuro Psychology

- Setting up neuropsychological assessments
- Administering neuropsychological tests
- Interpreting and reporting the results
- Data collection, analysis, and interpretation for scientific research.

Tutor Faculty of Psychology
01-09-2011 to 01-10-2013
Maastricht University

- Guiding problem-based tutorial groups

Student Assistant Psychology
06-02-2011 to 01-10-2013
Maastricht University

- Creating Questionnaires
- Digitizing Questionnaires for research
- Creating a data conversion and processing program

MARBLE project followed by Research Assistant
Maastricht University

- Testing participants (heartrate, skin-conductance, and respiration)
- Administering questionnaires
- Analyzing data (BrainVision Analyzer 2.0, Matlab, SPSS)
- Presenting preliminary results on the international student research conference 2012 (poster presentation)

Research Elective (effects of sleep deprivation on driving) *01-10-2012 to 01-06-2013*
Maastricht University

- Acquiring data in a moving car (EEG) and a lab environment (reaction times, various tasks, questionnaires)

Education

Research Masters Cognitive and Clinical Neuroscience: Neuropsychology track *01-09-2012 to 31-8-2014*
Maastricht University
Completed 31 July 2014 – Diploma received 19 September 2014

Master thesis: *The predictive value of fluid intelligence, attention, and memory on academic performance*
Minor thesis: *Using existing screening tools to differentiate between learning disorders and non-verbal learning disability*

Bachelor in Psychology *01-09-2009 to 01-07-2012*
Maastricht University
Completed 1st July 2012 – Diploma received 20 October 2012

Bachelor thesis: *Improving the Concealed Information Test*

Skills

Technical skills

Applications
Office, SPSS, R, Matlab, BrainVision Analyzer, Photoshop

Programming
Analytic: R, Python, Matlab, SPSS-syntax
Advanced: VB.net (VBA; Excel), Java (incl. Google App Script)
Intermediate: HTML, CSS, JavaScript, jQuery

Research Skills

Research Projects
Involved in and supervised several projects covering Behavioral, Cognitive, and neuropsychological testing

Data collected using surveys, Autonomic Measures (EEG, Heartrate, Skin-Conductance), and Behavioral Tasks

Advanced knowledge of statistical methods, including but not limited to Regression (Mixed, multilevel, Logistic, Ordinal, Multinomial), Analysis of Variance, and non-parametric testing

Presentation of Results
Experience presenting results on symposia and conferences, internationally and locally

Teaching Skills

Problem Based Learning
Guiding problems-based tutorial groups in a variety of subjects (12-14 students per group) in areas of Biological Psychology, Social Psychology, Developmental Psychology, and Statistics

Courses and Practicals
Conceived and developed a PhD-level course in Linear Mixed Regression Models, consisting of four lectures and study materials

Involved in the automation of the bachelor level Excel-practical, adding self-check tools and guides for students to receive immediate feedback on their performance.

Supervision

Co-supervised two groups of students, teaching them the correct use of EEG equipment and how to acquire clean data.

Co-supervised master students, designing and coding behavioral tasks and teaching them how to acquire data from young children (4-6 years of age)

Neuropsychological Assessment Training

Personally trained interns to perform neuropsychological assessments, the use of various measurement tools, and determining a clinical diagnosis based on the results

Other Skills

Languages

Native Language: Dutch
Advanced/fluent: English
Passive: German

Clinical Experience

Awarded the Dutch psychodiagnostic certificate (Basis Aantekening Psychodiagnostiek; BAPD)
Creating and administering neuropsychological assessments. Data analysis, interpretation, and translation into a report

Publications

Van Mier, H. I., Schleepen, T. M., & Van den Berg, F. C. (2019). Gender differences regarding the impact of math anxiety on arithmetic performance in second and fourth graders. *Frontiers in psychology*, 9, 2690.

van den Berg, F. C., de Weerd, P., & Jonkman, L. M. (2020). Number-related Brain Potentials Are Differentially Affected by Mapping Novel Symbols on Small versus Large Quantities in a Number Learning Task. *Journal of Cognitive Neuroscience*, 1-13.

van den Berg, F. C. G., De Weerd, P., & Jonkman, L. M. (2020, August 6). Behavioral and event-related-brain potential evidence for facilitating effects of canonical finger-number configurations on young adult's number processing in a Math verification task. https://doi.org/10.31219/osf.io/xmg7e