

DOMINIK FREUNBERGER

Data Scientist &
Linguist

PROFILE

I am a data scientist with a background in linguistics and vast experience in cognitive neuroscience, a curious learner with a drive to tell stories with data.

CONTACT

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HUMAN LANGUAGES

German	████████████████████
English	██████████████████
Swedish	██████████████
French	██████████

COMPUTER LANGUAGES

R	████████████████████
Python	██████████████
SQL	██████████
Matlab	██████████

OTHER

- Experimental design, hypothesis testing, data visualisation
- Mixed multiple linear and logistic regression, generalised additive mixed models, time series
- Data cleansing and preparation
- Git version control
- Excellent communication skills in speaking and writing
- High motivation to present complex ideas to a general audience
- Collaborative and caring team player
- Creative critical thinker with high ethical standards

RECENT EXPERIENCE

Data Science Fellow

Science to Data Science, London (virtual), August 2021

- Assessed the usefulness of social media data to understand changes in people's behaviours and attitudes towards food-related topics
- Distilled main trends from the data using NLP and machine learning methods on AWS
- Successfully delivered a proof-of-concept that social media listening can be reliably used to observe consumer behaviours in almost real-time
- Communicated insights to a diverse audience using story telling and visualisations

Postdoctoral Researcher

Stockholm University / Stockholm / 2018 - 2021

- Designed and managed large-scale experiments on second language processing and representation in the brain
- Published an article in the top journal in the field, *Applied Linguistics*
- Designed and implemented an R pipeline to process, analyse, and visualise electrical brain activation and behavioural data
- Organised and chaired regular lab meetings

Postdoctoral Researcher

BIFIE (now IQS) Austria / Salzburg / 2017 - 2018

- Designed, developed, and validated a UX-supported language assessment and training tool for children, in close collaboration with highly heterogeneous stakeholders
- Successfully rolled out this tool, which is now used by thousands of teachers in Austria
- Organised and held seminars on linguistics, language development, and language assessment for hundreds of teachers, principals, and language therapists across Austria

EDUCATION

PhD in Linguistics

University of Salzburg with stays at the University of Edinburgh
2011- 2017

Research on predictive and semantic language processing in the brain

MSc in

Psycholinguistics

University of Salzburg
2009 - 2011

BSc in Linguistics

University of Salzburg
2006 - 2009

SELECTED PUBLICATIONS

Freunberger, D., Bylund, E., & Abrahamsson, N. (2021). Is it time to reconsider the 'gold standard' paradigm in ERP studies on grammatical processing in a second language? A critical assessment based on qualitative individual differences. *Applied Linguistics, online first*, 1-20.

Freunberger, D., & Roehm, D. (2017). The costs of being certain: Brain potential evidence for linguistic pre-activation in sentence processing. *Psychophysiology, 54*, 824–832.

Freunberger, D., & Roehm, D. (2016). Semantic prediction in language comprehension: Evidence from brain potentials. *Language, Cognition and Neuroscience, 31*, 1193–1205.