



**SFB
1287**

Limits of Variability in Language
Cognitive, Computational, and Grammatical Aspects

DATA MANAGEMENT PLAN

CRC 1287 | 2025 | Phase 2
Project B01

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GENERAL INFORMATION

Overview

Project number

B01

Name of Experiment / Acronym / Number

WP1 - Eye-Tracking

Involved persons

Kathleen Schneider, Anca Serbanica, Runa Kreikenbaum

PI or responsible person (head of the study)

Sandra Hanne, Isabell Wartenburger

Subject area

Neurolinguistics

Method / Type of data

Behavioral Data:

- Online Data: Eye-Tracking (Eye-Movements, Pupil Size)
- Offline Data: Sentence-Picture-Matching Task (Response Accuracy, Reaction Times)

Cognitive Measures:

- Multiple-Choice Vocabulary Test
- Digit-Symbol-Substitution
- Digit Span: Forward and Backward
- Block Span: Forward and Backward
- Trail Making Test: A and B
- Montreal Cognitive Assessment Hearing Screening Edinburgh Handedness Scale

Participants (of the study)

- Younger Participants: 18-35 years (n=30)
- Elderly Participants: 60-80 years (n=30)
- Participants are all native German speakers
- Exclusion criteria contain neurological or psychiatric conditions as well as hearing impairments. Normal or corrected-to-normal vision is required

Short description (of the study)

Sentence comprehension of locally ambiguous German SVO and OVS sentences and perception of neutral, natural and exaggerated prosodic contours are tested.

Comments (optional)

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Data Management Requirements

Are there requirements regarding the data management from your scholarly / scientific community?

yes

If yes, what are the requirements?

- DFG Guidelines on the Handling of Research Data
- Handlungsempfehlungen zum Umgang mit Forschungsdaten University of Potsdam
- Technische und organisatorische Maßnahmen (TOM) gemäß Art. 32 Abs. 1 DSGVO
- Data Management in Psychological Science

Financial Support

Who is funding the project?

DFG - Deutsche Forschungsgemeinschaft e.V. (German Research Foundation)
- <https://www.dfg.de/en/>

In which funding line and / or which funding program is the project funded?

Collaborative Research Centre 1287 - Project number 317633480

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DATASET INFORMATION

Data Origin

Is the dataset being created or re-used?

created

If re-used, who created the dataset and under which address, PID or URL is the data set available?

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Data Collection

When does data collection start? (approximately / tentatively)

12.10.2021

When does data collection end? (approximately / tentatively)

20.06.2022

Data Handling

Where is the dataset stored during the project?

- CRC file server
- Box.UP university cloud
- researcher's computer
- computer in the laboratory

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If data is stored on lab or personal computers, please describe the backup strategy.

Raw data is backed up on the CRC file server. After finalizing data collection and analyses, the analyzed data will also be stored on the CRC file server.

Which file formats are used?

- Stimuli and Study Presentation: .wav, .jpg, .m, praat TextGrids, pitch-objects
- Protocols and Instructions: .docx, .pdf Data Collection: .txt, .csv
- Data Analysis: .rmd

Which measures of quality assurance are taken for this dataset?

Wav-files are annotated and acoustic measures are analyzed statistically. Comments on individual testing sessions and participant's feedback will be noted down in the study protocol. Triggers as well as validity measures are implemented for eye-tracking. Behavioral data is analyzed for outliers, biases or specific response patterns.

Data Analysis

When does data analysis start? (approximately / tentatively)

20.06.2022

When does data analysis end? (approximately / tentatively)

31.10.2022

Data Reuse

Which individuals, groups or institutions could be interested in re-using this dataset? What consequences does the reuse potential have for the provision of the data later?

Data is anonymizable and can be shared with other researchers:

- scores on cognitive testings
- response accuracy
- reaction times
- eye-movements
- pupil size

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LEGAL AND ETHICS

Personal Data

Does this dataset contain personal data?

yes

If yes, are these data anonymised?

yes

Property Rights

Does the project use and/or produce data that is protected by intellectual or industrial property rights?

yes

If yes, please explain which data protected by intellectual or industrial property rights?

Fixation Detection Algorithm (BIT Algorithm) R Packages

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PUBLICATION

Publishing or Sharing Data

Will this dataset be published or shared?

yes

If yes, the principal investigator of the study ensured that the consent form / subject information sheets support publishing of the data?

yes

If yes, under which terms of use or license will the dataset be published or shared?

CC BY (Attribution)

If yes, when will the data be published?

when the paper is published

If no, please explain why not. Please differentiate between legal and contractual reasons and voluntary restrictions.

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STORAGE AND LONG-TERM PRESERVATION

Archive

Does this dataset have to be preserved for long-term?

yes

How long does the data need to be stored?

The DFG expects primary data that is the basis of a publication to be stored in the researcher's own institution or an appropriate nationwide infrastructure long-term (for at least 10 years).

What are the reasons this dataset must be preserved for the long-term?

- Use in a publication / Evidence of good scientific practice
- Reuse (if anonymizable data) in subsequent projects or by others
- Legal obligations
- Documentation because it is socially relevant
- Self-commitment
- Evidence of good scientific practice
- DFG requirements

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Where will the data (including metadata, documentation, and relevant code) be stored or archived after the end of the project?

- CRC 1287 File-Server
- OSF
- Research Data Server from Project IN-FDM-BB (a.t.m. not available)

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coordinated by:



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