



**SFB
1287**

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

DATA MANAGEMENT PLAN

CRC 1287 | 2021 | Phase 1
Project B01

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GENERAL INFORMATION

Overview

Project number

B01

Name of Experiment / Acronym / Number

WP3 - Coordinate Sequences

Involved persons

de Beer, Huttenlauch, Obrig*, Regenbrecht* (* MPI/ University Hospital Leipzig)

PI or responsible person (head of the study)

Isabell Wartenburger, Sandra Hanne

Subject area

Production and perception data of prosodic boundary cues

Method / Type of data

- Elicited productions, wav files plus information about speakers
- Written record of reactions in perception experiment on scoring sheets

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Participants (of the study)

- Adult individuals with unilateral left hemisphere damage
- Adult individuals with unilateral right hemisphere damage
- Unimpaired adults (only perception experiment)

Short description (of the study)

Experiment 7:

Production of coordinate name sequences in two conditions ("Moni und Lilli und Manu" vs. "(Moni und Lilli) und Manu") to the investigator after Experiment 7a) written presentation (task: reading aloud) and Experiment 7b) after audio presentation of the stimuli (task: repetition).

Experiment 8:

Perception of coordinate name sequences in two conditions ("Moni und Lilli und Manu" vs. "(Moni und Lilli) und Manu") with manipulated recordings. The combinations and strength of prosodic cues (f0, pause, pre boundary lengthening) is manipulated resulting in 7 manipulation levels. Participants react by pointing to one of two pictures (each corresponding to one of the two conditions). The investigator records participants' reactions in written form.

Comments (optional)

- Individuals with unilateral left or right hemisphere damage, unimpaired adult participants
- Sprachproduktions- und Sprachverständnisstudie / PROSO-PAT / Experiments 7, 8

Production:

- Experiment 7a (reading aloud): n=24 productions per participant
- Experiment 7b (repetition): n=24 productions per participant

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Perception:

- Experiment 8: n=90 reactions per participant

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

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 317633491

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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)

2018

When does data collection end? (approximately / tentatively)

2020

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.

- All data (raw and finally analyzed data) are stored in owncloud. 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
- The university cloud and CRC File Server is backed up regularly.

Which file formats are used?

- Audio recordings: Recordings took place in a silent room either in the acoustics laboratory of the University of Potsdam or in the Tagesklinik für kognitive Neurologie in Leipzig via a Steinberg UR22mkII interface.
- Speakers wore a headset HSC 271 (AKG Acoustics by Harman, www.akg.com) with over ear headphones and a condenser microphone and were seated in front of Dell Laptop.
- The experiments were run from the Dell laptop using the software praat (Experiments 7b and 8) or Microsoft Power Point (Experiment 7a)

Which measures of quality assurance are taken for this dataset?

- Data will be analyzed for outliers and biases in the responses (by the person who analyzed the data).
- Wav files are annotated.
- Systematic Literature Review includes a quality check according to international standard procedures.

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Data Analysis

When does data analysis start? (approximately / tentatively)

2020

When does data analysis end? (approximately / tentatively)

2021

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?

Non anonymizable data:

- Raw data (audio recordings from participants) are non anonymizable. Reuse of raw data by other researchers/scientists is NOT possible because the identity of the participants/recorded person could be revealed (personal data). Raw data cannot be shared. Lesion data of participants with unilateral brain lesions (names are included on lesion visualisations)

Anonymizable data:

- Extracted measures (duration, f0) could be shared. Raw data and analysed data from perception experiment could be shared. Test scores on working memory assessments (digit span, block span, digit symbol substitution, hearing test (single sound audiogram), Trail Making Test, handedness (Edinburgh Handedness Inventory)).

Test scores on language abilities:

- Participants with right hemisphere damage: reading single words (LeMo 2.0 Test 8), reading neologisms (LeMo 2.0 Test 7), auditory discrimination of neologisms (LeMo 2.0 Test 1), dysarthria examination (BoDyS)

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- Participants with left hemisphere damage: reading single words (LeMo 2.0 Test 8), auditory discrimination of neologisms (LeMo 2.0 Test 1), dysarthria examination (BoDyS), examination of apraxia of speech (HWL short), aphasia examination (AAT or ACL)

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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?

no

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

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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?

CC0 (Public Domain)

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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<https://www.uni-potsdam.de>

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