Forschungsdatenmanagement Workshop

MAX PLANCK INSTITUTE FOR PSYCHOLINGUISTICS

IT und Bibliothek

Infrastruktur am MPI für Psycholinguistik

Reiner Dirksmeyer & Karin Kastens
München, 19. April 2018

MPI for Psycholinguistics

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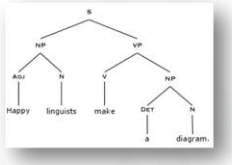
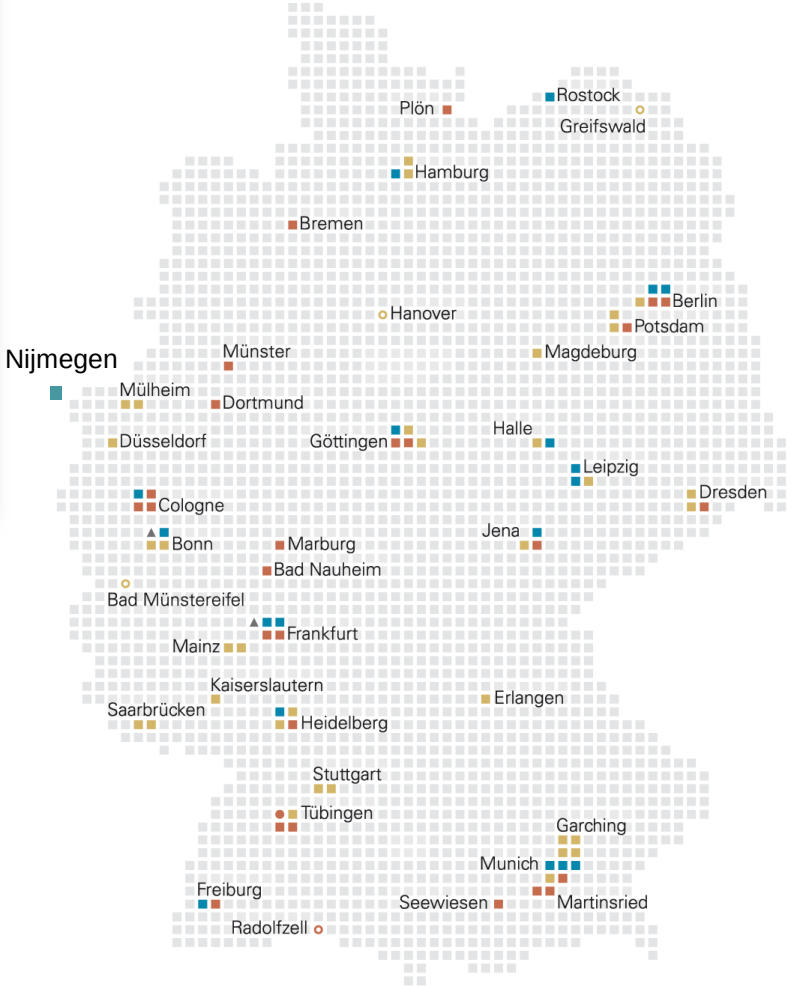


Address fundamental issues at multiple levels, from molecules & cells to circuits & brains, through to behaviour of individuals & populations



Interdisciplinary research

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Language and Cognition: Steve Levinson
What is the relationship between language and general cognition?

Language and Genetics: Simon Fisher
Which genes underlie human language, how do they explain its evolution and variability?

Neurobiology of Language: Peter Hagoort
How does the brain support language?

Psychology of Language: Antje Meyer
Which psychological processes underlie listening and speaking?

Language Development: Caroline Rowland
How do children first learn language?

Neurogenetics of Vocal Communication Group: Sonja Vernes
Can vocal communication in other mammals tell us about the biological basis of human speech and language?

New research member at MPI

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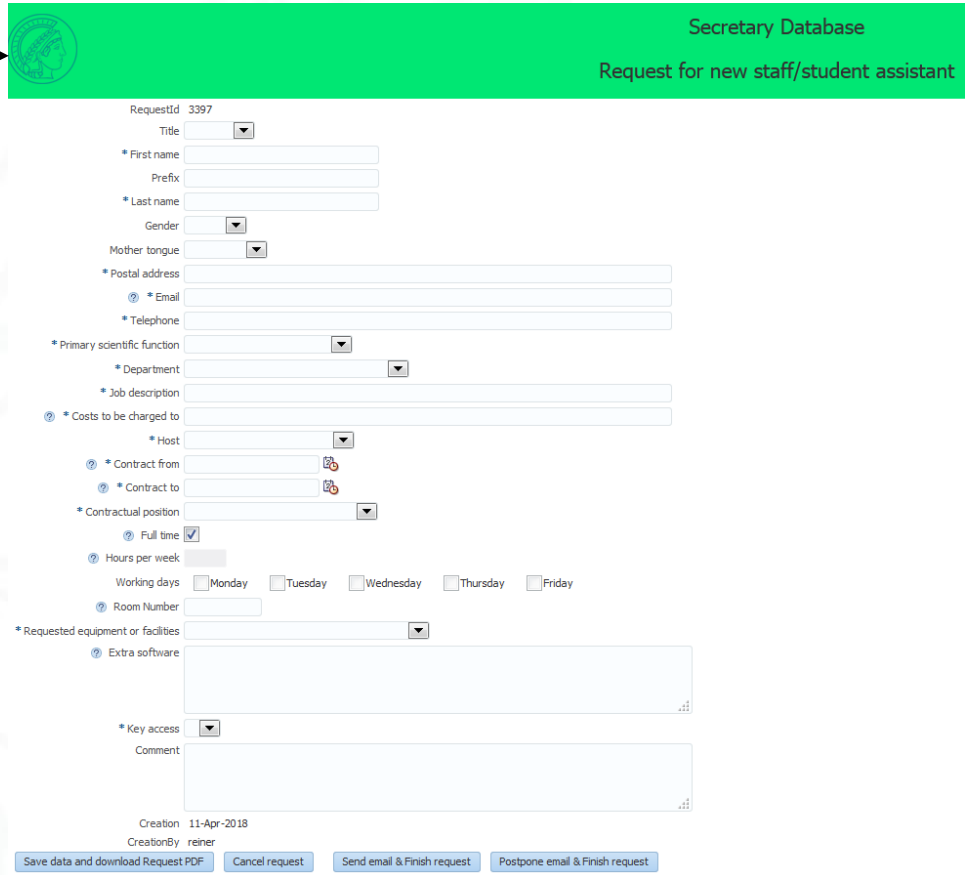
New user request form

Fill in important properties:
- Name
- Start **AND** end time
- Who is the host
- Department membership

Sign user regulation

Allow access to **basic resources**:
- Key for entrance and office
- E-Mail
- Intranet page (maxint.mpi.nl)
- Printers
- **File systems**

Introduction talk:
- how to change the password
- how to find resourses
- explain Intranet
- how to get help
- how to use **data areas**



Logon, change default password and start work...

Default file system access

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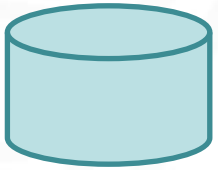
user homes

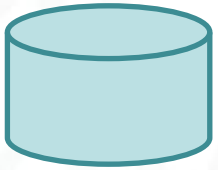
Personal space to store: documents and other data that do not need to be shared (but **no** experiment data!)



Linux: /home/<username>
Windows: K: or U: drive

/usr/local

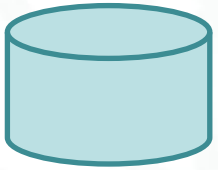
Read-only space for application, libraries, scripts,...



Linux: /usr/local/
Windows: N: drive

MPI-scratch

Space for data exchange, only!
- **no backup!**
- **autonamtic deletion of files that were not touched for longer than 14 days!**



Linux: smb share
Windows: M: drive

Default file system access

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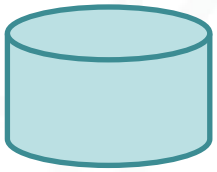
workspaces

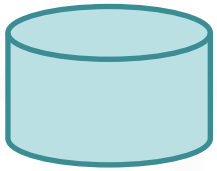
Read/write access for some shared data areas, only!
Request additional read or write access!



Linux:
/data/workspaces/<dep>/workspaces/<project>
Windows: P: drive

archive

Read-only access, add data via https://archive.mpi.nl only!



Linux: /data/archive/<dep>/<project>
Windows: P: drive (softlink)

Additional data access: Workspaces

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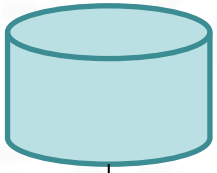
workspaces



Technical Group (TG):

System Group	Desktop Group	**Data management Group**	Experiment Group

Request-ticket

(datasupport@mpi.nl, OTRS)

- read/write permission of existing workspace or
- creation of a new workspace

new workspace:
(example)

/data/workspaces/ladd/workspaces/ld-evakid/
administrative/
archive/ -> /data/archive/ladd_data
archive_deposit/
data_support/
projects/
README_workspaces.txt
/data/workspaces/ladd/workspaces/ld-evakid/projects/Play_JA_Gesture_Quinn_Kidd/
01-planning/
02-design/
03-raw_data/
04-analysis/
05-dissemination/
miscellaneous/

Additional data access: Workspaces

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new workspace:
(example)

```
mkdir -p $wspace/projects/example_project
mkdir $wspace/projects/example_project/01-planning
mkdir $wspace/projects/example_project/01-planning/01-protocol
mkdir $wspace/projects/example_project/01-planning/02-meetings
mkdir $wspace/projects/example_project/01-planning/03-ethics
mkdir $wspace/projects/example_project/01-planning/04-literature
mkdir $wspace/projects/example_project/01-planning/05-old_versions
mkdir $wspace/projects/example_project/02-design
mkdir $wspace/projects/example_project/02-design/01-design
mkdir $wspace/projects/example_project/02-design/02-stimuli
mkdir $wspace/projects/example_project/02-design/02-stimuli/01-combined
mkdir $wspace/projects/example_project/02-design/02-stimuli/02-audio
mkdir $wspace/projects/example_project/02-design/02-stimuli/03-images
mkdir $wspace/projects/example_project/02-design/02-stimuli/04-videos
mkdir $wspace/projects/example_project/02-design/02-stimuli/05-other
mkdir $wspace/projects/example_project/02-design/03-questionaires
mkdir $wspace/projects/example_project/02-design/04-old_versions
mkdir $wspace/projects/example_project/03-raw_data
mkdir $wspace/projects/example_project/03-raw_data/01-raw_data
mkdir $wspace/projects/example_project/03-raw_data/02-coding_transcripts
mkdir $wspace/projects/example_project/03-raw_data/03-analysis_scripts
mkdir $wspace/projects/example_project/03-raw_data/04-spreadsheets
mkdir $wspace/projects/example_project/04-analysis
mkdir $wspace/projects/example_project/05-dissemination
mkdir $wspace/projects/example_project/05-dissemination/01-conferences
mkdir $wspace/projects/example_project/05-dissemination/02-manuscripts
mkdir $wspace/projects/example_project/05-dissemination/03-publications
mkdir $wspace/projects/example_project/miscellaneous
chown -R corpman:ld$1 $wspace
ln -s /data/archive/ladd_data $wspace/archive
ln -s ../README_workspaces.txt $wspace/README_workspaces.txt
```

Additional data access: Subject DB

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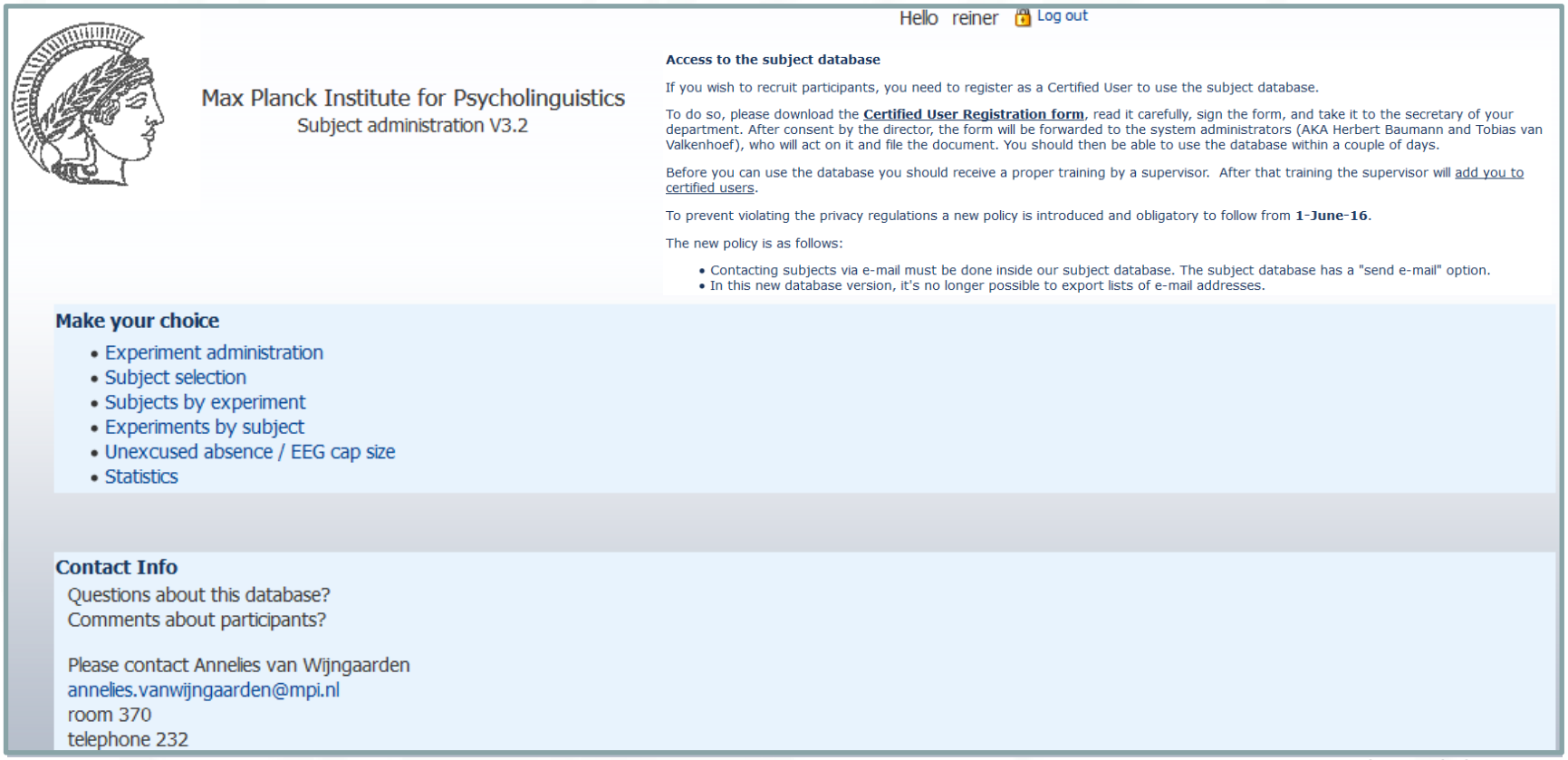
Request-ticket
(datasupport@mpi.nl, OTRS)
- access to subject database (**regulation form**)

→ System Group

https://www.mpi.nl/ppdb



Oracle used since 1986
(choosen out: Sir, Rdb, 1032, Ingres, Ultra)

Additional data access: Subject DB

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https://www.mpi.nl/ppreg

Goedendag

Max Planck Instituut voor Psycholinguïstiek

Proefpersonenadministratie

Maak Uw keuze

- Registratie nieuwe proefpersoon (vanaf 18 jaar)
- Uitschrijven
- Gegevens veranderen
- Wachtwoord vergeten

Informatie

Voor vragen of opmerkingen kunt u contact opnemen met Annelies van Wijngaarden via:

- 024-3521232
- experimenten@mpi.nl

Additional data access: Lab-Book

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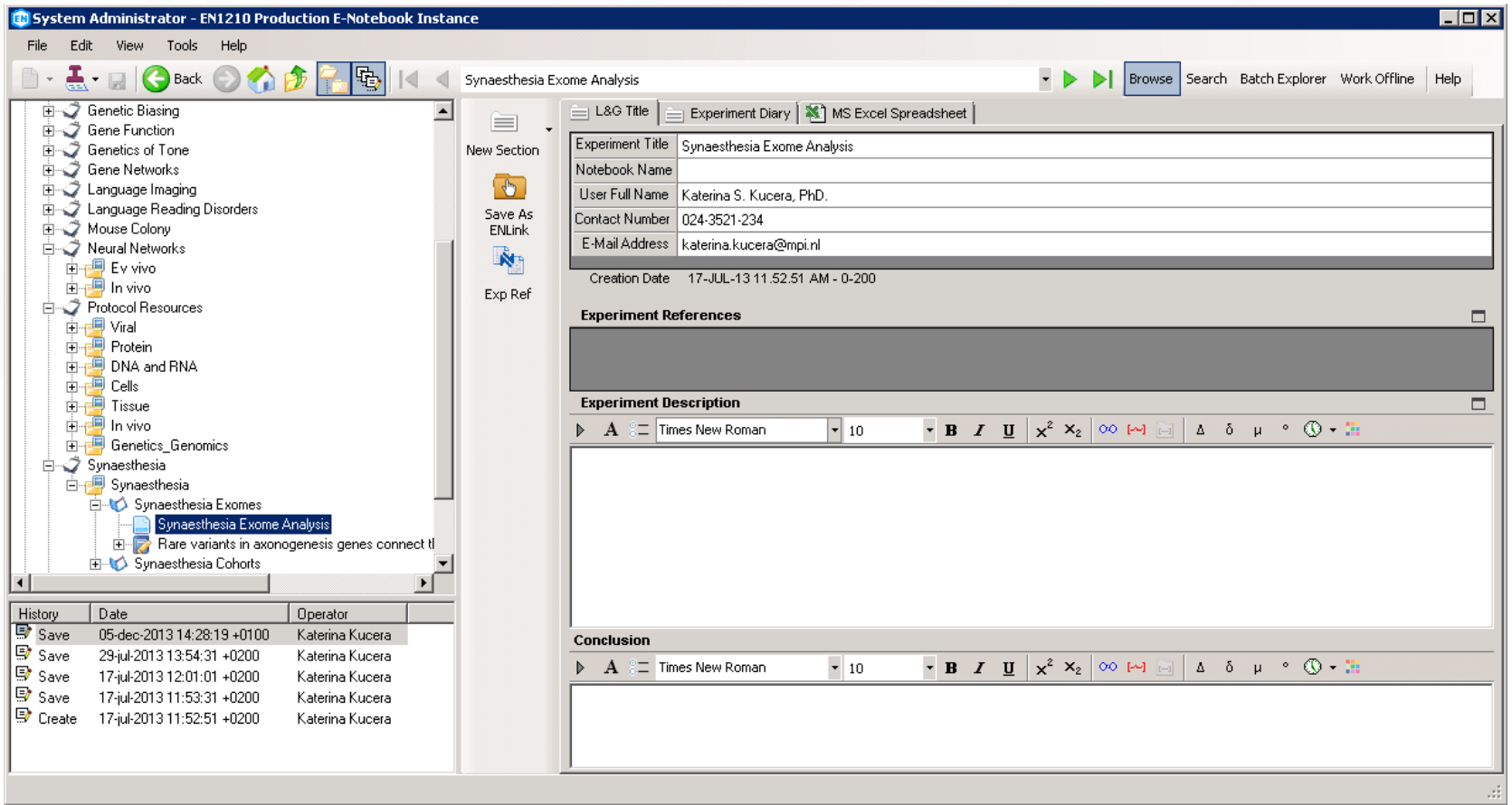
Request-ticket
(datasupport@mpi.nl, OTRS)
- access to electonic lab notebook

→ System Group

Elect. lab-book: E-Notebook from PerkinElmer



Archiving data

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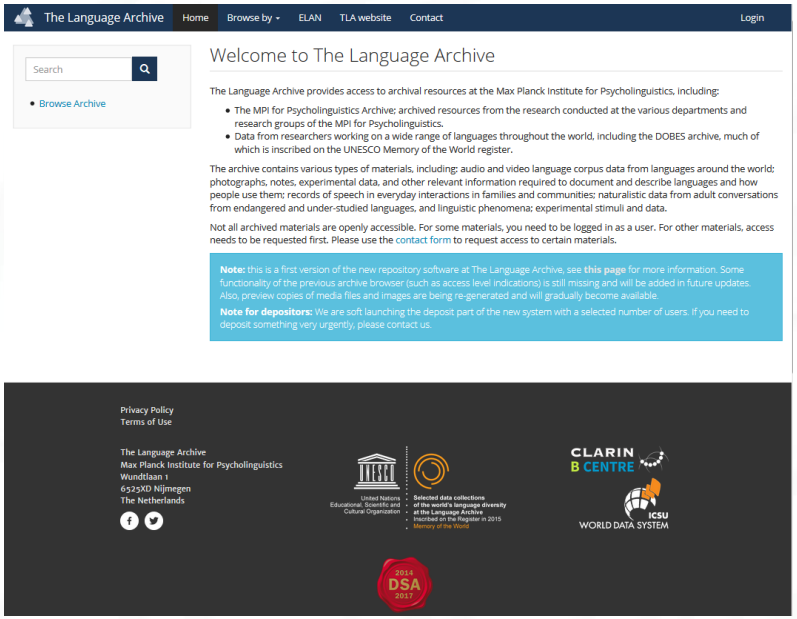
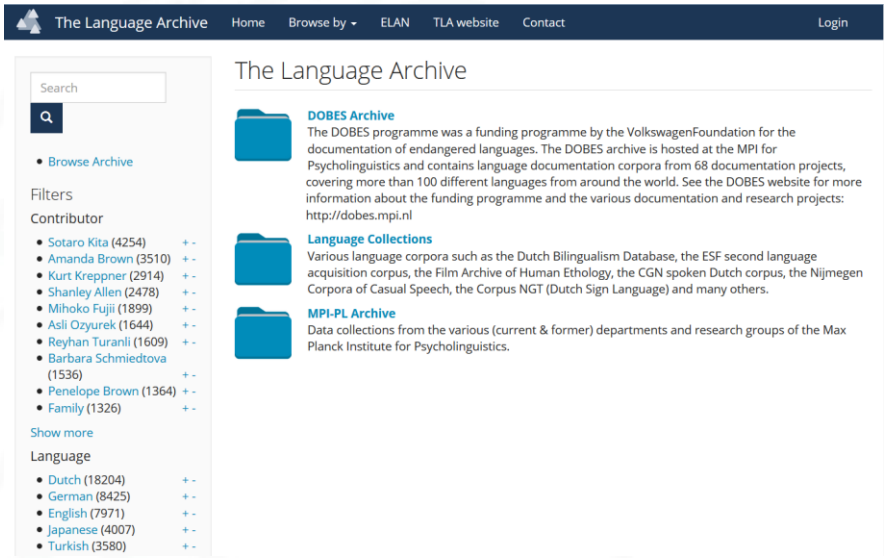
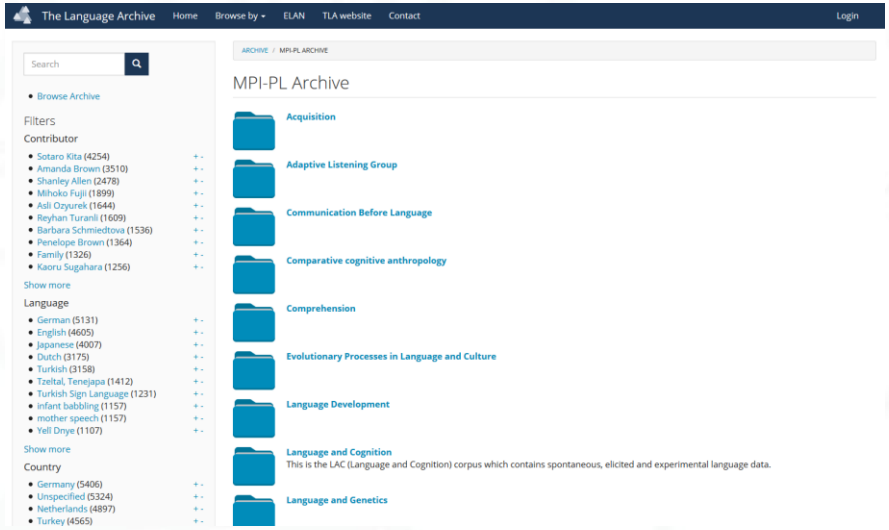




CORE TRUST SEAL



Archiving data

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The Language Archive | Home | My dashboard | My account | Log out

Search

- Add content
- Browse the whole archive
- My bookmarks

Add content

Bundle
A bundle of one or more data files
Collection
A container node for subcollections and bundles

ADD CONTENT / CREATE COLLECTION

Create Collection

Title *

Fedora commons ID

Status of the collection *

active

Exception

NID of the parent of this node

Fedora commons ID of super collection node

Save | Preview

Archiving data

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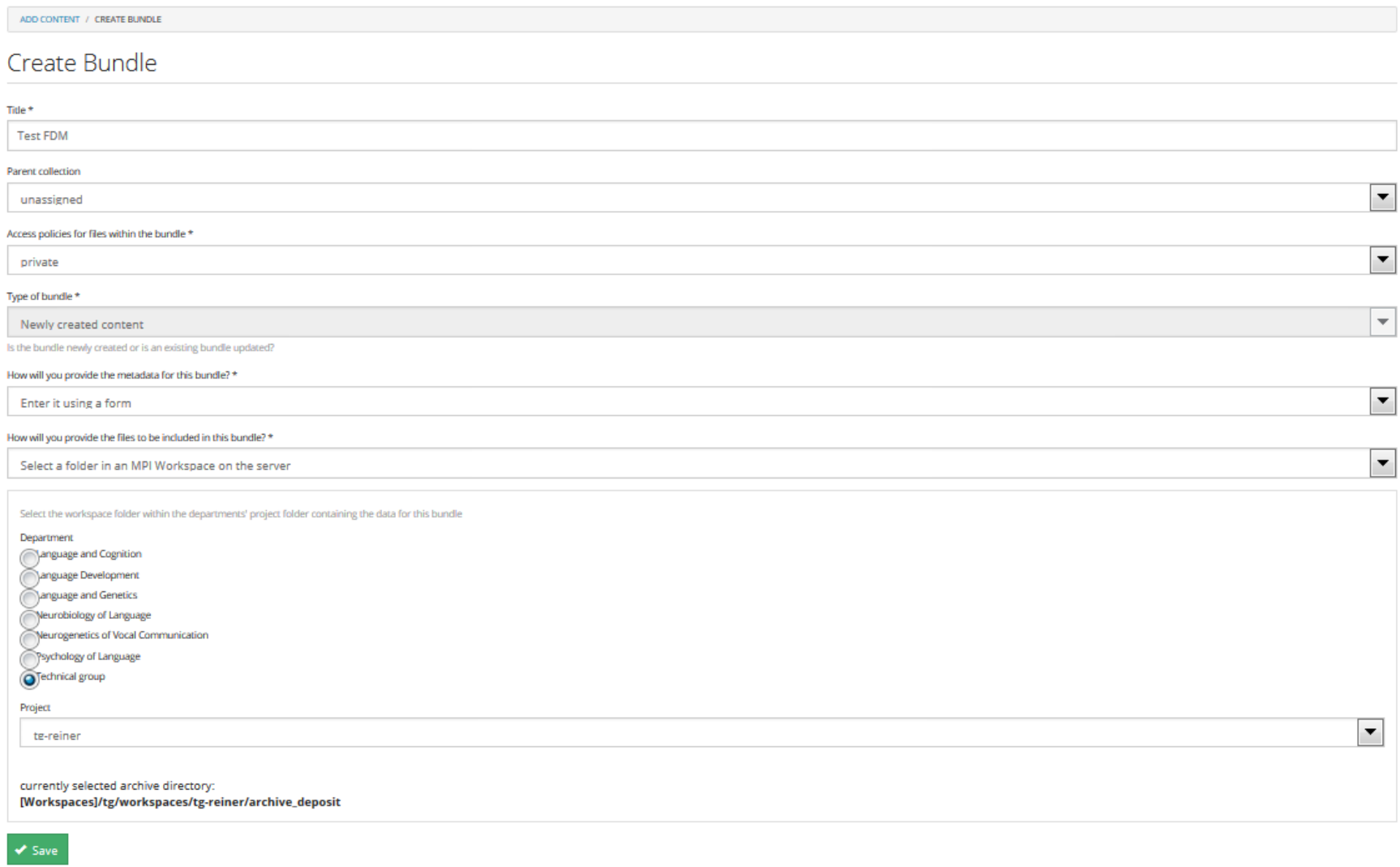

Archiving data: Metadata template

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Archiving data: Metadata template

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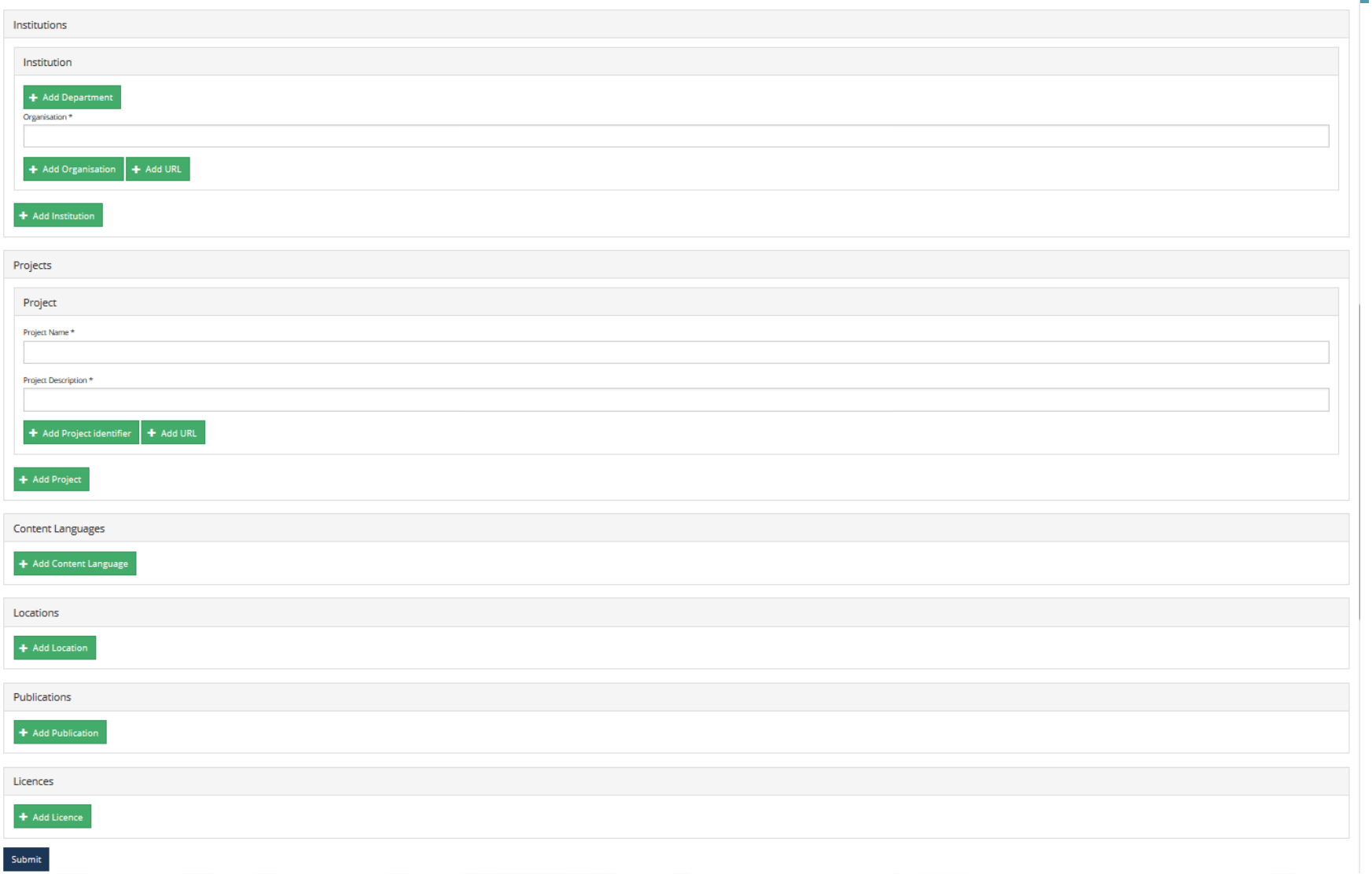

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Archiving data: Example

ARCHIVE / MPI-PL ARCHIVE / PSYCHOLOGY OF LANGUAGE / HOWARD DIALOGUE

Howard Dialogue

- **Analysis Behavioral**
- **Analysis Description**
- **Experimental setup**
- **Procedure**
- **Publication**
- **Raw data behavioral**
- **Stimuli**

Details

Persistent Identifier https://hdl.handle.net/1839/00-98858E1B-00C8-4DDB-8914-A275C8ACD9FC

Detailed Metadata

▸ **lat-corpus**

Research member leaves the MPI

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Leaving workflow:

- 3 month before end: letter to user
- 21 days before end: e-mail to secretary and sys-admin
- 14 days before end: e-mail to TG: any lend equipment
- 10 days before expiration: e-mail warning that account will expire
- extension of contract or account?
- **no:** return equipment and clean-up data (sign form), disable login, 4 weeks later: remove account data, 6 month later: remove homepage

Data archived?

- responsibility of host, department, ...

Research member leaves the MPI

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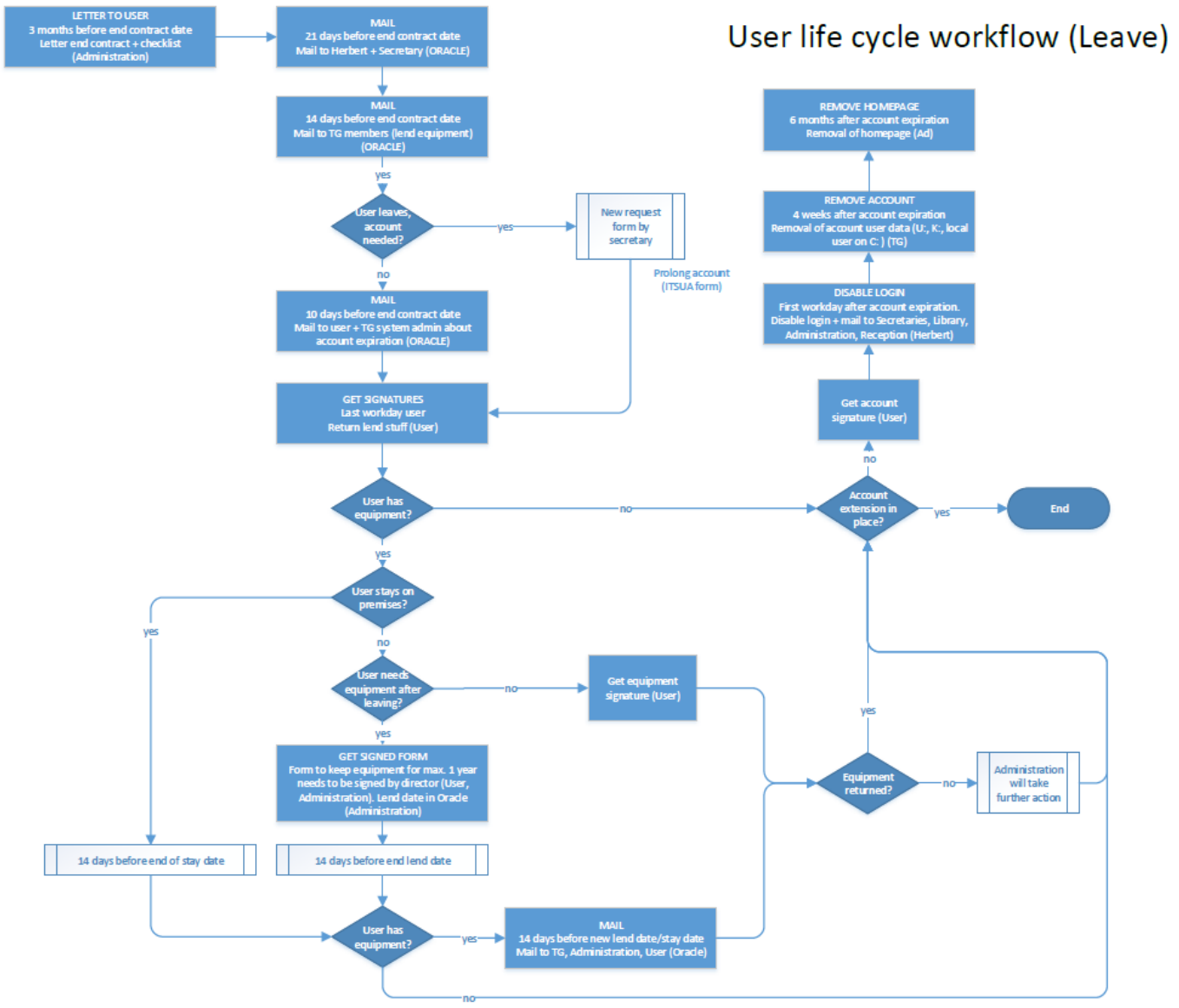

Bibliothek im Publikationsprozess

Wissenschaftliche Institutsbibliothek

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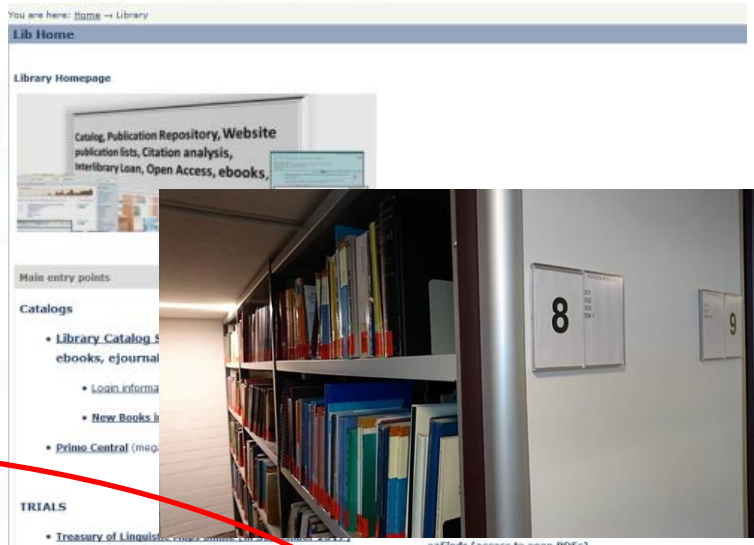
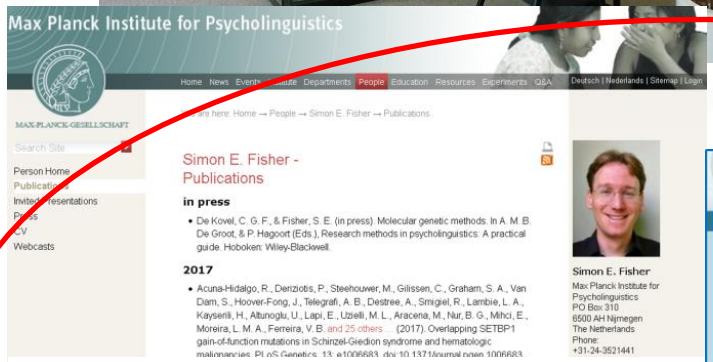
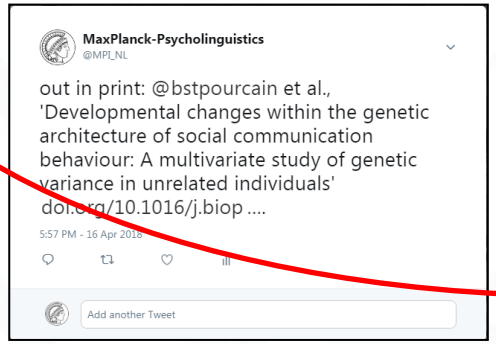
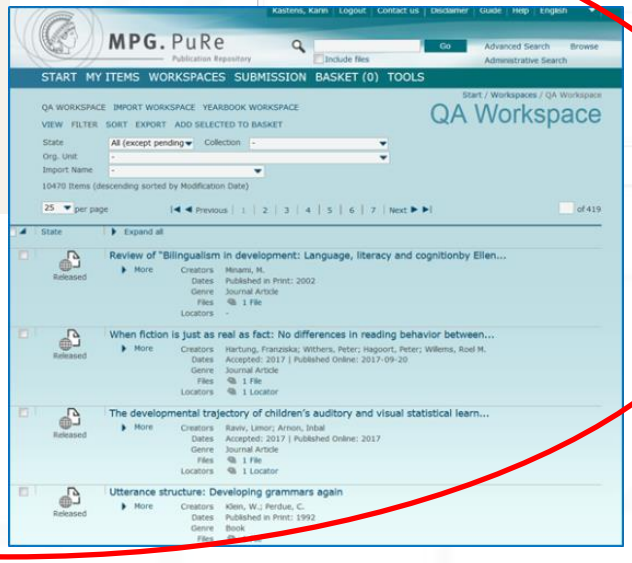




https://twitter.com/MPI_NL/status/985910126505754624





Description of Library tasks

The MPI library supports the researchers in all their information needs. The collection closely follows the Institute's research. We **provide access** to

- 40.000 printed books
- 85.000 online journals (MPG-wide licenses plus dozens of locally licensed e-journals aimed at our research)
- 700.000 eBooks via MPG-wide licenses plus dozens of locally licensed eBooks requested by our staff

Document delivery via interlibrary loan, mostly from Dutch, German, or UK university libraries or other Max Planck libraries, is very fast.

Open Access support

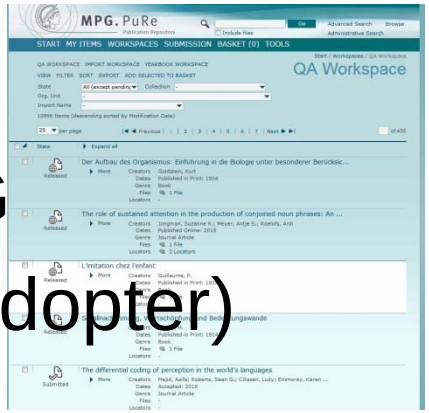
The Max Planck Society has central agreements in order to cover Article Processing Charges (APCs) on behalf of Max Planck authors, e.g. for Frontiers journals, PLoS journals, BMC, Springer, Taylor & Francis journals. The librarians advise and help with questions regarding Open Access (fees).

Publication Management

Our library provides up to date publication lists on the institute's website (personal and departmental pages) via our publication repository MPG.PuRe.

The librarians support the researcher with **citation analysis** to measure impact factors.

MPG.PuRe



- Publication repository of the MPG
- MPIPL nutzt es seit 2009 (early adopter)
- 2009: 2400 publications items
- 2018: 10862 items (16.4.2018)
  - items: Publikationen, Poster, Talks, Teaching

- 4 collections:
  - MPI publications (with MPI affiliation)
  - Import collection form former repository (with MPI affiliation)
  - Non MPI publications by MPI staff
  - A collection of literature on the History of Psycholinguistics

MPG.PuRe und mpi.nl

MAX PLANCK INSTITUTE FOR PSYCHOLINGUISTICS

Incentive om Publikationen abzulegen auf MPG.PuRe

MPI publications (with MPI affiliation):

- 2009-2018:
  - 5934 items (Aufsätze, Buchkapitel, Poster,..)
  - 3200 mit Volltexten! = 54 %

- 2016-2018 :
  - 396 Zeitschriftenaufsätze
    - 148 Gold Open Access = 38%
    - 240 Grüne Volltexte auf www.mpi.nl via MPG.PuRe

Publications on MPI.NL

MAX PLANCK INSTITUTE FOR PSYCHOLINGUISTICS

You are here: Home → People → Peter Hagoort → Publications

Peter Hagoort - Publications

in press

- Hagoort, P. (in press). It is the facts, stupid. In J. Brockmann (Ed.), What do you consider the most interesting recent [scientific] news? What makes it important?. Palmyra, VA: Maven Press.

2018

- De Groot, A. M. B., & Hagoort, P. (Eds.). (2018). Research methods in psycholinguistics and the neurobiology of language: A practical guide. Oxford: Wiley.
- Heyselaar, E., Mazaheri, A., Hagoort, P., & Segaert, K. (2018). Changes in alpha activity reveal that social opinion modulates attention allocation during face processing. NeuroImage, 174, 432-440. doi:10.1016/j.neuroimage.2018.03.034. more >
- Lam, N. H. L., Hulten, A., Hagoort, P., & Schoffelen, J.-M. (2018). Robust neuronal oscillatory entrainment to speech displays individual variation in lateralisation. Language, Cognition and Neuroscience. Advance online publication. doi:10.1080/23273798.2018.1437456. more >
- Segaert, K., Mazaheri, A., & Hagoort, P. (2018). Binding language: Structuring sentences through precisely timed oscillatory mechanisms. European Journal of Neuroscience. Advance online publication. doi:10.1111/ejn.13816. more >
- Tromp, J., Peeters, D., Meyer, A. S., & Hagoort, P. (2018). The combined use of Virtual Reality and EEG to study language processing in naturalistic environments. Behavior Research Methods, 50(2), 862-869. doi:10.3758/s13428-017-0911-9. more >
- Vanlangendonck, F., Takashima, A., Willems, R. M., & Hagoort, P. (2018). Distinguishable memory retrieval networks for collaboratively and non-collaboratively learned information. Neuropsychologia, 111, 123-132. doi:10.1016/j.neuropsychologia.2017.12.008. more >

2017

- Dai, B., McQueen, J. M., Hagoort, P., & Kösem, A. (2017). Pure linguistic interference during comprehension of competing speech signals. The Journal of the Acoustical Society of America, 141, EL249-EL254. doi:10.1121/1.4977590. more >
- Eichert, N., Peeters, D., & Hagoort, P. (2017). Language-Driven Anticipatory Eye Movements in Virtual Reality. Behavior Research Methods. Advance online publication. doi:10.3758/s13428-017-0929-z. more >
- Franken, M. K., Acheson, D. J., McQueen, J. M., Eisner, F., & Hagoort, P. (2017). Individual variability as a window on production-perception interactions in

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Fax:
+31-24-3521213

http://www.mpi.nl/publications/escidoc-2564103

Journal articles

Heyselaar, E., Mazaheri, A., Hagoort, P., & Segaert, K. (2018). Changes in alpha activity reveal that social opinion modulates attention allocation during face processing. NeuroImage, 174, 432-440. doi:10.1016/j.neuroimage.2018.03.034.

Participants' performance differs when conducting a task in the presence of a secondary individual, moreover the opinion the participant has of this individual also plays a role. Using EEG, we investigated how previous interactions with, and evaluations of, an avatar in virtual reality subsequently influenced attentional allocation to the face of that avatar. We focused on changes in the alpha activity as an index of attentional allocation. We found that the onset of an avatar's face whom the participant had developed a rapport with induced greater alpha suppression. This suggests greater attentional resources are allocated to the interacted-with avatars. The evaluative ratings of the avatar induced a U-shaped change in alpha suppression, such that participants paid most attention when the avatar was rated as average. These results suggest that attentional allocation is an important element of how behaviour is altered in the presence of a secondary individual and is modulated by our opinion of that individual.

Link to source (DOI) >
Downloadable fulltext >

Supplementary materials
mmc1.docx

downloads MPG.PuRe via mpi.nl

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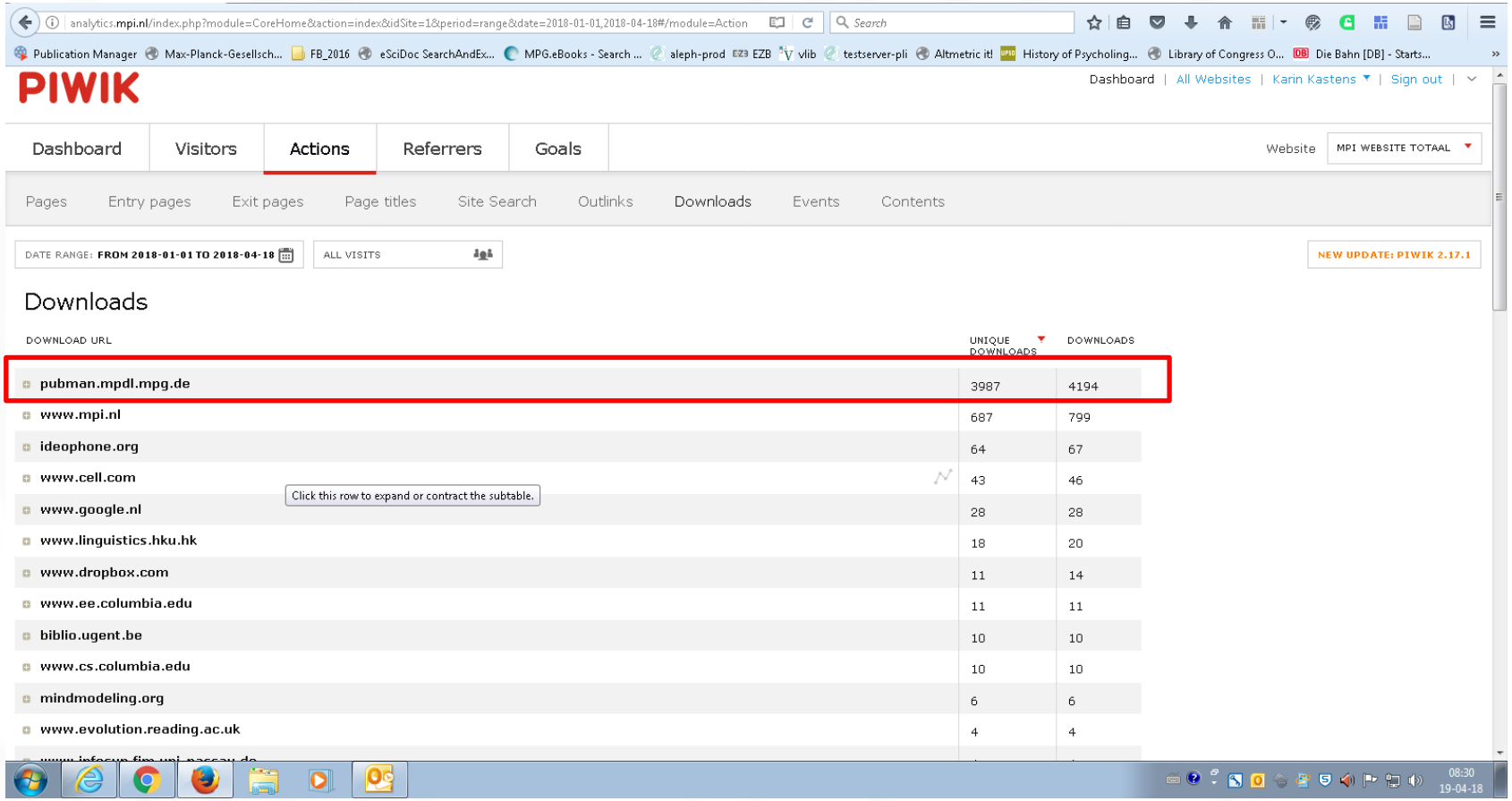

neue Wissenschaftler und MPG.PuRe

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→ new user email from system management

Dear reader,

I created new MPI-accounts (Unix and Windows) for Christina Bergmann.

Function: Research Staff

Host or supervisor: Rowland, Caroline

Username:

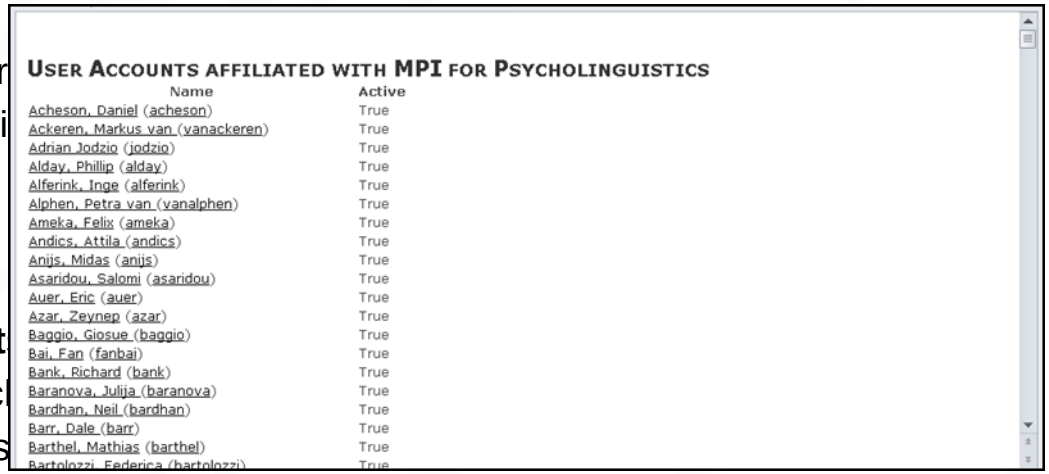
Expiration date: 31 Aug 2021

....

-> request for **new user of MPG.PuRe with pure-support**:

Could you please add a new user
Bergmann, Christina (Surname, fi
username ../ passwd...
email: ...

She should have **depositor right**
- Publications of the MPI for Psycl
- Non MPI publications by MPI Ps



User Accounts affiliated with MPI for Psycholinguistics

Name	Active
Acheson, Daniel (acheson)	True
Ackeren, Markus van (vanackeren)	True
Adrian Jodzio (jodzio)	True
Alday, Phillip (alday)	True
Alferink, Inge (alferink)	True
Alphen, Petra van (vanalphen)	True
Ameka, Felix (ameka)	True
Andics, Attila (andics)	True
Anijs, Midas (anijs)	True
Asaridou, Salomi (asaridou)	True
Auer, Eric (auer)	True
Azar, Zeynep (azar)	True
Baggio, Giosue (baggio)	True
Bai, Fan (fanbai)	True
Bank, Richard (bank)	True
Baranova, Julija (baranova)	True
Bardhan, Neil (bardhan)	True
Barr, Dale (barr)	True
Barthel, Mathias (barthel)	True
Bartolozzi, Federica (bartolozzi)	True

Affiliations

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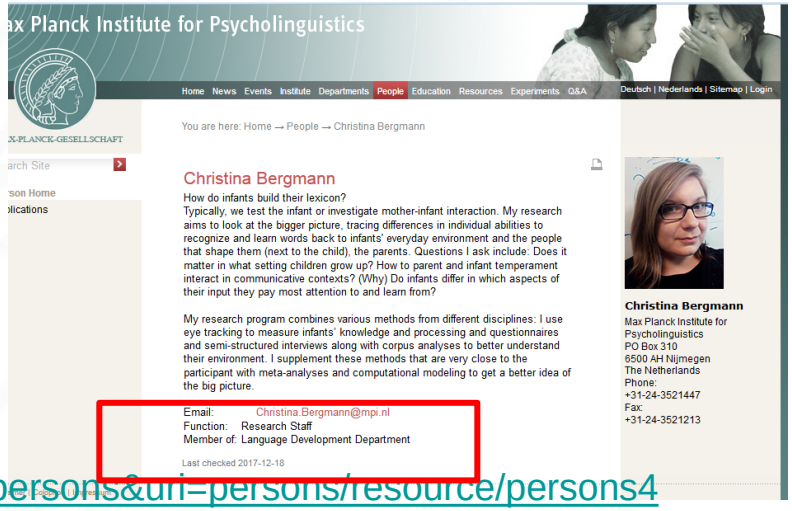
http://www.mpi.nl/people/bergmann-christina



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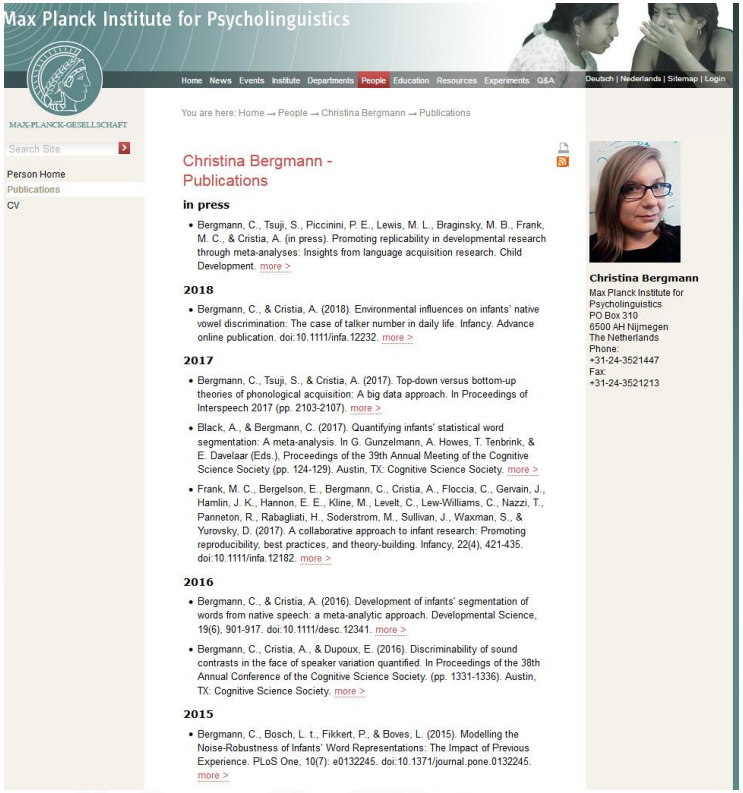

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2015

- Hintz, F., & Meyer, A. S. (2015). Prediction and production of simple mathematical equations: Evidence from anticipatory eye movements. PLoS One, 10(7): e0130766. doi:10.1371/journal.pone.0130766. more >
- Jongman, S. R., Meyer, A. S., & Roelofs, A. (2015). The role of sustained attention in the production of conjoined noun phrases: An individual differences study. PLoS One, 10(9): e0137557. doi:10.1371/journal.pone.0137557. more >
- Jongman, S. R., Roelofs, A., & Meyer, A. S. (2015). Sustained attention in language production: An individual differences investigation. Quarterly Journal of Experimental Psychology, 68, 710-730. doi:10.1080/17470218.2014.964736. more >
- Moers, C., Janse, E., & Meyer, A. S. (2015). Probabilistic reduction in reading aloud: A comparison of younger and older adults. In M. Wolters, J. Livingstone, B. Beattie, R. Smith, M. MacMahon, J. Stuart-Smith, & J. Scobbie (Eds.), Proceedings of the 18th International Congress of Phonetic Sciences [ICPhS 2015]. London: International Phonetics Association. more >
- Rommers, J., Meyer, A. S., & Huettig, F. (2015). Verbal and nonverbal predictors of language-mediated anticipatory eye movements. Attention, Perception, & Psychophysics, 77(3), 720-730. doi:10.3758/s13414-015-0873-x. more >
- Schuerman, W., Meyer, A. S., & McQueen, J. M. (2015). Do we perceive others better than ourselves? A perceptual benefit for noise-vocoded speech produced by an average speaker. PLoS One, 10(7): e0129731. doi:10.1371/journal.pone.0129731. more >
- Sjerps, M. J., & Meyer, A. S. (2015). Variation in dual-task performance reveals late initiation of speech planning in turn-taking. Cognition, 136, 304-324. doi:10.1016/j.cognition.2014.10.008. more >
- Tromp, J., Hagoort, P., & Meyer, A. S. (2015). Pupillometry reveals increased pupil size during indirect request comprehension. Quarterly Journal of Experimental Psychology. Advance online publication. doi:10.1080/17470218.2015.1065282. more >
- Veenstra, A., Meyer, A. S., & Acheson, D. J. (2015). Effects of parallel planning on agreement production. Acta Psychologica, 162, 29-39. doi:10.1016/j.actpsy.2015.09.011. more >

2014

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Journal articles

Hintz, F., & Meyer, A. S. (2015). Prediction and production of simple mathematical equations: Evidence from anticipatory eye movements. PLoS One, 10(7): e0130766. doi:10.1371/journal.pone.0130766.

The relationship between the production and the comprehension systems has recently become a topic of interest for many psycholinguists. It has been argued that these systems are tightly linked and in particular that listeners use the production system to predict upcoming content. In this study, we tested how similar production and prediction processes are in a novel version of the visual world paradigm. Dutch speaking participants (native speakers in Experiment 1; German-Dutch bilinguals in Experiment 2) listened to mathematical equations while looking at a clock face featuring the numbers 1 to 12. On alternating trials, they either heard a complete equation ("three plus eight is eleven") or they heard the first part ("three plus eight is") and had to produce the result ("eleven") themselves. Participants were encouraged to look at the relevant numbers throughout the trial. Their eye movements were recorded and analyzed. We found that the participants' eye movements in the two tasks were overall very similar. They fixated the first and second number of the equations shortly after they were mentioned, and fixated the result number well before they named it on production trials and well before the recorded speaker named it on comprehension trials. However, all fixation latencies were shorter on production than on comprehension trials. These findings suggest that the processes involved in planning to say a word and anticipating hearing a word are quite similar, but that people are more aroused or engaged when they intend to respond than when they merely listen to another person.

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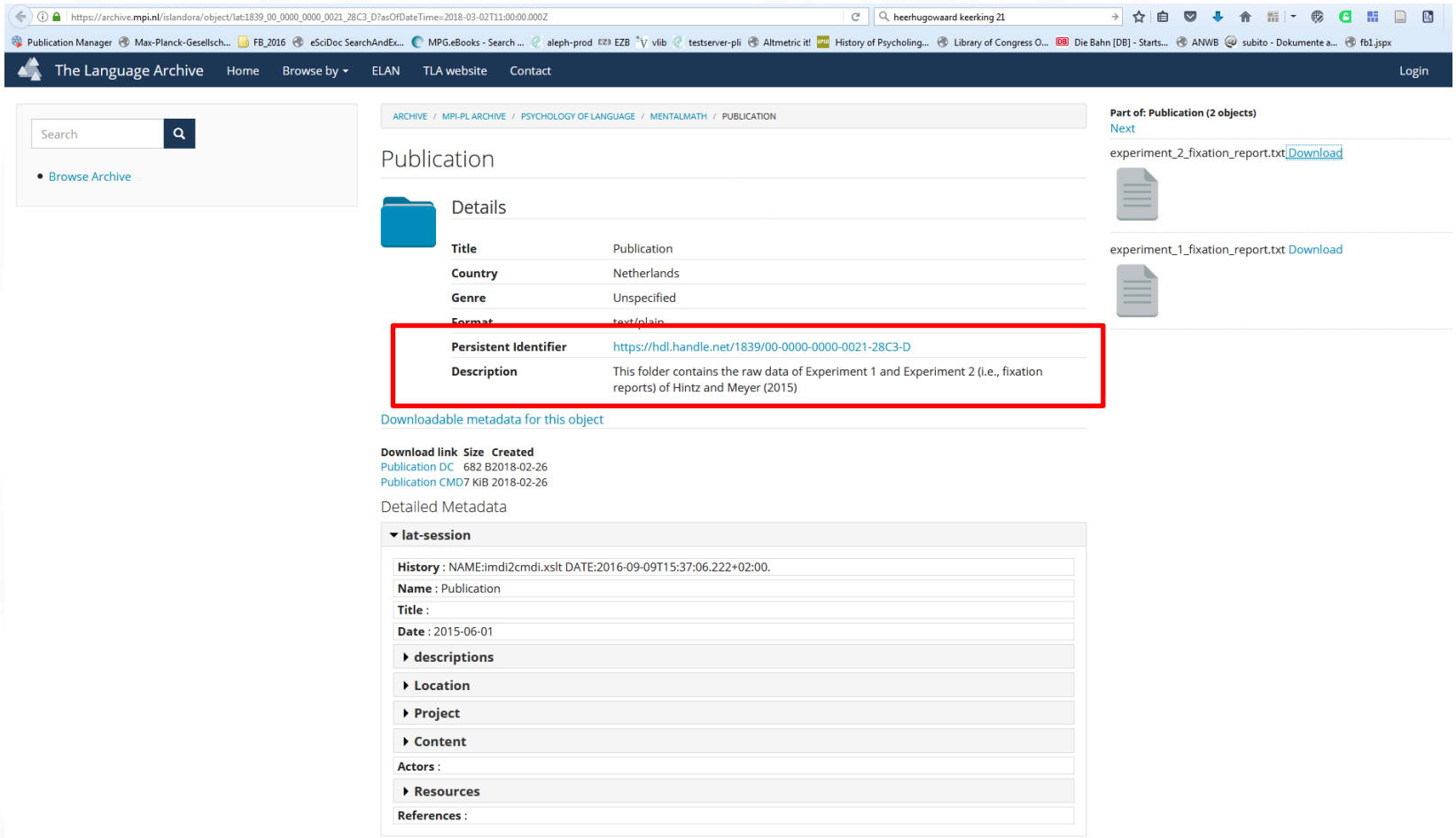

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Prediction and production of simple mathematical equations: Evidence from anticipatory eye movements

Hintz, F., & Meyer, A. S. (2015). Prediction and production of simple mathematical equations: Evidence from anticipatory eye movements. *PLoS One, 10*(7): e0130766. doi:10.1371/journal.pone.0130766.

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Locator: http://hdl.handle.net/1839/00-0000-0000-0021-28C3-D@view (Supplementary material)
Description: Data

Creators — hide

Creators: Hintz, Florian[1, 2], Author
Meyer, Antje S.[1, 3], Author

Affiliations:
1 Psychology of Language Department, MPI for Psycholinguistics, Ma… Society, escidoc:792545
2 International Max Planck Research School for Language Sciences, … Psycholinguistics, Max Planck Society, Nijmegen, NL, escidoc:1119…
3 Donders Institute for Brain, Cognition and Behaviour, External Org… escidoc:55236

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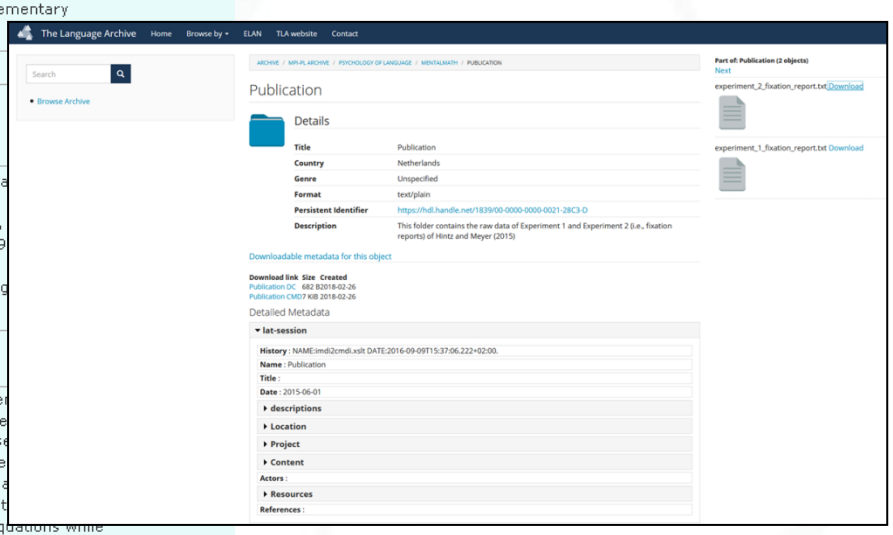
Abstract: The relationship between the production and the comprehension syste… recently become a topic of interest for many psycholinguists. It has be… that these systems are tightly linked and in particular that listeners use… production system to predict upcoming content. In this study, we teste… production and prediction processes are in a novel version of the visua… paradigm. Dutch speaking participants (native speakers in Experiment… German-Dutch bilinguals in Experiment 2) listened to mathematical equations while looking at a clock face featuring the numbers 1 to 12. On alternating trials, they either heard a complete equation ("three plus eight is eleven") or they heard the first part ("three plus eight is") and had to produce the result ("eleven")



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Suzanne Jongman - Publications

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2017

- Jongman, S. R. (2017). Sustained Attention Ability Affects Simple Picture Naming. Collabra: Psychology, 3(1): 17. doi:10.1525/collabra.84. more >
- Jongman, S. R., & Meyer, A. S. (2017). To plan or not to plan: Does planning for production remove facilitation from associative priming? Acta Psychologica, 181, 40-50. doi:10.1016/j.actpsy.2017.10.003. more >
- Kunert, R., & Jongman, S. R. (2017). Entrainment to an auditory signal: Is attention involved? Journal of Experimental Psychology: General, 146(1), 77-88. doi:10.1037/xge0000246. more >

2016

- Jongman, S. R. (2016). Sustained attention in language production. PhD Thesis, Radboud University Nijmegen, Nijmegen. more >
- Jongman, S. R., Roelofs, A., Scheper, A., & Meyer, A. S. (2016). Picture naming in typically developing and language impaired children: The role of sustained attention. International Journal of Language & Communication Disorders. Advance online publication. doi:10.1111/1460-6984.12275. more >

2015

- Jongman, S. R., Meyer, A. S., & Roelofs, A. (2015). The role of sustained attention in the production of conjoined noun phrases: An individual differences study. PLoS One, 10(9): e0137557. doi:10.1371/journal.pone.0137557. more >
- Jongman, S. R., Roelofs, A., & Meyer, A. S. (2015). Sustained attention in language production: An individual differences investigation. Quarterly Journal of Experimental Psychology, 68, 710-730. doi:10.1080/17470218.2014.964736. more >

http://www.mpi.nl/publications/escidoc-2189843

Journal articles

Jongman, S. R., Meyer, A. S., & Roelofs, A. (2015). The role of sustained attention in the production of conjoined noun phrases: An individual differences study. PLoS One, 10(9): e0137557. doi:10.1371/journal.pone.0137557.

It has previously been shown that language production, performed simultaneously with a nonlinguistic task, involves sustained attention. Sustained attention concerns the ability to maintain alertness over time. Here, we aimed to replicate the previous finding by showing that individuals call upon sustained attention when they plan single noun phrases (e.g., "the carrot") and perform a manual arrow categorization task. In addition, we investigated whether speakers also recruit sustained attention when they produce conjoined noun phrases (e.g., "the carrot and the bucket") describing two pictures, that is, when both the first and second task are linguistic. We found that sustained attention correlated with the proportion of abnormally slow phrase-production responses. Individuals with poor sustained attention displayed a greater number of very slow responses than individuals with better sustained attention. Importantly, this relationship was obtained both for the production of single phrases while performing a nonlinguistic manual task, and the production of noun phrase conjunctions in referring to two spatially separated objects. Inhibition and updating abilities were also measured. These scores did not correlate with our measure of sustained attention, suggesting that sustained attention and executive control are distinct. Overall, the results suggest that planning conjoined noun phrases involves sustained attention, and that language production happens less automatically than has often been assumed.

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Supplementary materials

Data available (link to Figshare)
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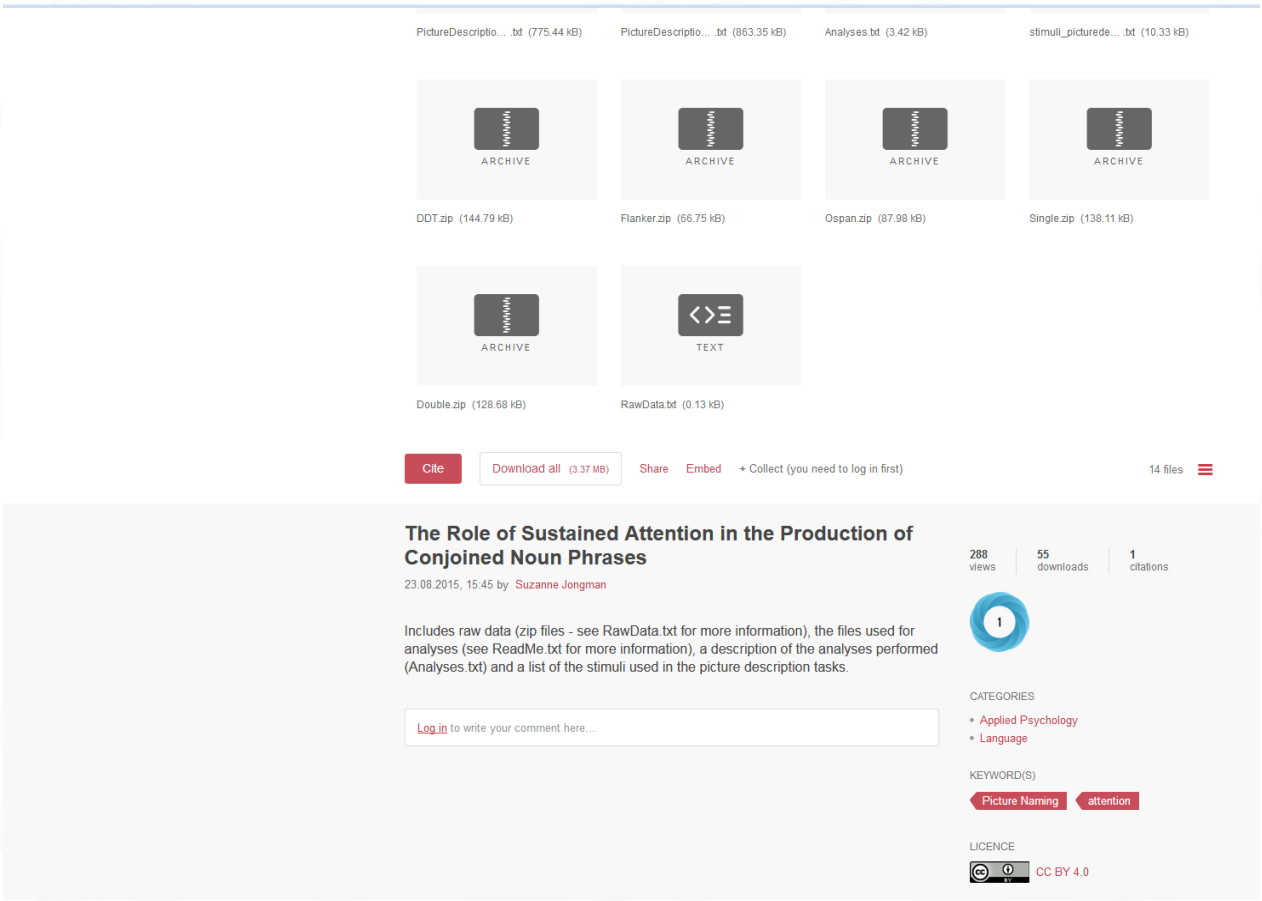

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2015

- Hintz, F., & Meyer, A. S. (2015). Prediction and production of simple mathematical equations: Evidence from anticipatory eye movements. PLoS One, 10(7): e0130766. doi:10.1371/journal.pone.0130766. more >
- Jongman, S. R., Meyer, A. S., & Roelofs, A. (2015). The role of sustained attention in the production of conjoined noun phrases: An individual differences study. PLoS One, 10(9): e0137557. doi:10.1371/journal.pone.0137557. more >
- Jongman, S. R., Roelofs, A., & Meyer, A. S. (2015). Sustained attention in language production: An individual differences investigation. Quarterly Journal of Experimental Psychology, 68, 710-730. doi:10.1080/17470218.2014.964736. more >
- Moers, C., Janse, E., & Meyer, A. S. (2015). Probabilistic reduction in reading aloud: A comparison of younger and older adults. In M. Wolters, J. Livingstone, B. Beattie, R. Smith, M. MacMahon, J. Stuart-Smith, & J. Scobbie (Eds.), Proceedings of the 18th International Congress of Phonetic Sciences [ICPhS 2015]. London: International Phonetics Association. more >
- Rommers, J., Meyer, A. S., & Huettig, F. (2015). Verbal and nonverbal predictors of language-mediated anticipatory eye movements. Attention, Perception, & Psychophysics, 77(3), 720-730. doi:10.3758/s13414-015-0873-x. more >
- Schuerman, W., Meyer, A. S., & McQueen, J. M. (2015). Do we perceive others better than ourselves? A perceptual benefit for noise-vocoded speech produced by an average speaker. PLoS One, 10(7): e0129731. doi:10.1371/journal.pone.0129731. more >
- Sjerps, M. J., & Meyer, A. S. (2015). Variation in dual-task performance reveals late initiation of speech planning in turn-taking. Cognition, 136, 304-324. doi:10.1016/j.cognition.2014.10.008. more >

http://www.mpi.nl/publications/escidoc-2166269

Journal articles

Schuerman, W., Meyer, A. S., & McQueen, J. M. (2015). Do we perceive others better than ourselves? A perceptual benefit for noise-vocoded speech produced by an average speaker. PLoS One, 10(7): e0129731. doi:10.1371/journal.pone.0129731.

In different tasks involving action perception, performance has been found to be facilitated when the presented stimuli were produced by the participants themselves rather than by another participant. These results suggest that the same mental representations are accessed during both production and perception. However, with regard to spoken word perception, evidence also suggests that listeners' representations for speech reflect the input from their surrounding linguistic community rather than their own idiosyncratic productions. Furthermore, speech perception is heavily influenced by indexical cues that may lead listeners to frame their interpretations of incoming speech signals with regard to speaker identity. In order to determine whether word recognition evinces similar self-advantages as found in action perception, it was necessary to eliminate indexical cues from the speech signal. We therefore asked participants to identify noise-vocoded versions of Dutch words that were based on either their own recordings or those of a statistically average speaker. The majority of participants were more accurate for the average speaker than for themselves, even after taking into account differences in intelligibility. These results suggest that the speech representations accessed during perception of noise-vocoded speech are more reflective of the input of the speech community, and hence that speech perception is not necessarily based on representations of one's own speech.

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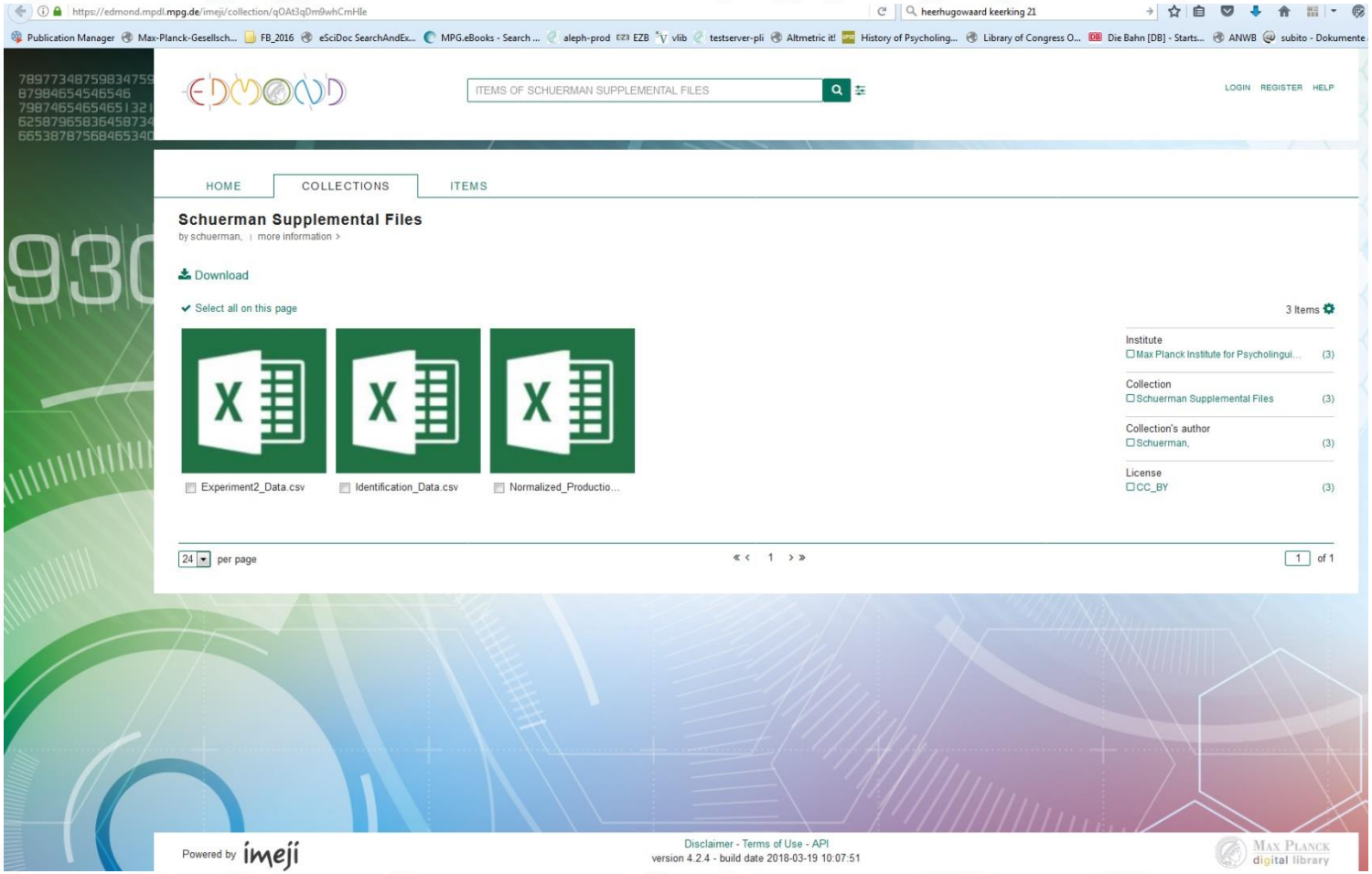

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2018

- Nieuwland, M. S., Politzer-Ahles, S., Heyselaar, E., Segaert, K., Darley, E., Kazanina, N., Von Grebmer Zu Wolfsthurn, S., Bartolozzi, F., Kogan, V., Ito, A., Mézière, D., Barr, D. J., Rousselet, G., Ferguson, H. J., Busch-Moreno, S., Fu, X., Tuomainen, J., Kulakova, E., Husband, E. M., Donaldson, D. I. and 2 others ... (2018). Large-scale replication study reveals a limit on probabilistic prediction in language comprehension. eLife, 7: e33468. doi:10.7554/eLife.33468. more >

2017

- Ito, A., Martin, A. E., & Nieuwland, M. S. (2017). C meaning in a second language. Journal of Experim Memory, and Cognition, 43(4), 635-652. doi:10.103
- Ito, A., Martin, A. E., & Nieuwland, M. S. (2017). V effect may be hard to replicate: A rebuttal to DeLo Language, Cognition and Neuroscience, 32(8), 974 doi:10.1080/23273798.2017.1323112. more >
- Martin, A. E., Huettig, F., & Nieuwland, M. S. (201 answer the important questions about language? A and Pickering "An experimental approach to lingui

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Journal articles

Nieuwland, M. S., Politzer-Ahles, S., Heyselaar, E., Segaert, K., Darley, E., Kazanina, N., Von Grebmer Zu Wolfsthurn, S., Bartolozzi, F., Kogan, V., Ito, A., Mézière, D., Barr, D. J., Rousselet, G., Ferguson, H. J., Busch-Moreno, S., Fu, X., Tuomainen, J., Kulakova, E., Husband, E. M., Donaldson, D. I., Kohút, Z., Rueschemeyer, S.-A., & Huettig, F. (2018). Large-scale replication study reveals a limit on probabilistic prediction in language comprehension. eLife, 7: e33468. doi:10.7554/eLife.33468.

Do people routinely pre-activate the meaning and even the phonological form of upcoming words? The most acclaimed evidence for phonological prediction comes from a 2005 Nature Neuroscience publication by DeLong, Urbach and Kutas, who observed a graded modulation of electrical brain potentials (N400) to nouns and preceding articles by the probability that people use a word to continue the sentence fragment ('cloze'). In our direct replication study spanning 9 laboratories (N=334), pre-registered replication-analyses and exploratory Bayes factor analyses successfully replicated the noun-results but, crucially, not the article-results. Pre-registered single-trial analyses also yielded a statistically significant effect for the nouns but not the articles. Exploratory Bayesian single-trial analyses showed that the article-effect may be non-zero but is likely far smaller than originally reported and too small to observe without very large sample sizes. Our results do not support the view that readers routinely pre-activate the phonological form of predictable words.

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Replication Recipe Analysis plan

Contributors: Mante Nieuwland, Falk Huettig

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a previous version of the public_noun_data.txt file had 2 wrong cloze values, which have been corrected in the new file. these two data points hardly change anything about the statistical results, only in rounding of the 2nd decimal in the reported CI.

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