Plan Overview

A Data Management Plan created using DMPonline

Title: 3me-PhD_20230508_METATOOL_TD

Creator: Tim Djedilbaev

Principal Investigator: Geeske Langejans

Data Manager: Tim Djedilbaev

Affiliation: Delft University of Technology

Funder: European Commission

Template: TU Delft Data Management Plan template (2021)

Project abstract:

The central inquiry of this PhD project is to what extent the human cognition is an 'artefact intelligence' given that the acquisition of higher order cognitive functions is mediated by tools artificial rather than natural. This tool-capacity is conceptualized in terms of at least four levels of analysis: cognitive (neuro)science, archaeology, knowledge representation/symbolic reasoning, and robotics. The experimental part of this project will test the consistency of metacognitive capabilities and awareness as a facilitator for the emergence of tool making from the perspectives of archaeology and neuroscience.

ID: 123596

Start date: 01-12-2022

End date: 01-12-2026

Last modified: 18-09-2024

Grant number / URL: https://doi.org/10.3030/101070940

Copyright information:

The above plan creator(s) have agreed that others may use as much of the text of this plan as they would like in their own plans, and customise it as necessary. You do not need to credit the creator(s) as the source of the language used, but using any of the plan's text does not imply that the creator(s) endorse, or have any relationship to, your project or proposal

3me-PhD_20230508_METATOOL_TD

0. Administrative questions

1. Name of data management support staff consulted during the preparation of this plan.

My data steward is **Bjørn Peare Bartholdy**

2. Date of consultation with support staff.

2023-05-08

I. Data description and collection or re-use of existing data

3. Provide a general description of the type of data you will be working with, including any re-used data:

Type of data	File format(s)	How will data be collected (for re-used data: source and terms of use)?	Purpose of processing	Storage location	Who will have access to the data
Anonymized unstructured visual behavioral observations	.txt files	Written notes	To infer behavioral markers associated with targeted cognitive processing	Project storage drive	Project team members: the PI and data managers
Video-captured behavioral sequences	.mp4 files	Video recording	To capture behavioral markers of targeted cognitive processing	Project storage drive	PI and data managers
Audio-captured verbal behavior, 'streams of thought'	.mp3 files	Audio recording	To capture behavioral markers of targeted cognitive/ metacognitive processing	Project storage drive	PI and data managers
Raw eye tracking data	Proprietary formats and .csv	Eye tracker	Metacognitive demand for a targeted cognitive operation (e.g., decision- making)	Project storage drive	PI and data managers
Raw posture motion tracking data	Proprietary formats and .csv	Motion trackers	Metacognitive demand for a targeted cognitive operation (e.g., decision- making)	Project storage drive	PI and data managers
Raw finger and hand/arm motion tracking data	Proprietary formats and .csv	Fingers and hand/arm tracking	Metacognitive demand for a targeted cognitive operation (e.g., decision- making)	Project storage drive	PI and data managers
Demographic data	.xls	Questionner	Statistical value/trends	Project storage drive	PI and data managers
Informed consent	.pdf	Form	Informed consent	Project storage drive	PI and data managers
Images	.jpeg	Photo-camera	Documenting experimental set-up and procedures	Project storage drive	Project members

4. How much data storage will you require during the project lifetime?

- 250 GB - 5 TB

II. Documentation and data quality

5. What documentation will accompany data?

- README file or other documentation explaining how data is organised
- Data will be deposited in a data repository at the end of the project (see section V) and data discoverability and re-usability will be ensured by adhering to the repository's metadata standards

III. Storage and backup during research process

6. Where will the data (and code, if applicable) be stored and backed-up during the project lifetime?

- Project Storage at TU Delft

IV. Legal and ethical requirements, codes of conduct

7. Does your research involve human subjects or 3rd party datasets collected from human participants?

- Yes

8A. Will you work with personal data? (information about an identified or identifiable natural person)

If you are not sure which option to select, first ask your Faculty Data Steward for advice. You can also check with the privacy website . If you would like to contact the privacy team: privacy-tud@tudelft.nl, please bring your DMP.

- Yes

This data will be handled in accordance with relevant legislation.

8B. Will you work with any other types of confidential or classified data or code as listed below? (tick all that apply)

If you are not sure which option to select, ask your Faculty Data Steward for advice.

- No, I will not work with any confidential or classified data/code

9. How will ownership of the data and intellectual property rights to the data be managed?

For projects involving commercially-sensitive research or research involving third parties, seek advice of your Faculty Contract Manager when answering this question. If this is not the case, you can use the example below.

The datasets underlying the published papers will be publicly released following the TU Delft Research Data Framework Policy. During the active phase of research, the project leader from TU Delft will oversee the access rights to data (and other outputs), as well as any requests for access from external parties. They will be released publicly no later than at the time of publication of corresponding research papers.

10. Which personal data will you process? Tick all that apply

- Email addresses and/or other addresses for digital communication
- Financial information, such as bank account numbers

- Gender, date of birth and/or age
- Photographs, video materials, performance appraisals or student results
- Signed consent forms
- Data collected in Informed Consent form (names and email addresses)

11. Please list the categories of data subjects

Data subjects are professional knappers hired through professional networks.

12. Will you be sharing personal data with individuals/organisations outside of the EEA (European Economic Area)?

- No

13. To which countries will you be transferring personal data:

Question not answered.

14. Please contact the privacy team (privacy-tud@tudelft.nl) for advice on data transfer. Please also bring your draft DMP when contacting the privacy team.

Please record below their advice, the data transfer mechanism used and agreed security measures:

Question not answered.

15. What is the legal ground for personal data processing?

- Informed consent

16. Please describe the informed consent procedure you will follow:

All participants will be asked for their written consent for taking part in the study and for data processing before the start of the experiments.

17. Where will you store the signed consent forms?

- Same storage solutions as explained in question 6

18. Does the processing of the personal data result in a high risk to the data subjects?

If the processing of the personal data results in a high risk to the data subjects, it is required to perform a Data Protection Impact Assessment (DPIA). In order to determine if there is a high risk for the data subjects, please check if any of the options below that are applicable to the processing of the personal data during your research (check all that apply).
If two or more of the options listed below apply, you will have to complete the DPIA. Please get in touch with the privacy team: privacy-tud@tudelft.nl to receive support with DPIA.
If only one of the options listed below applies, your project might need a DPIA. Please get in touch with the privacy team: privacy-tud@tudelft.nl to get advice as to whether DPIA is necessary.

If you have any additional comments, please add them in the box below.

- None of the above applies

22. What will happen with personal research data after the end of the research project?

- Anonymised or aggregated data will be shared with others
- Personal research data will be destroyed after the end of the research project

V. Data sharing and long-term preservation

26. What data will be publicly shared?

- All data (and code) underlying published articles / reports / theses

27. Apart from personal data mentioned in question 22, will any other data be publicly shared?

- All other non-personal data (and code) underlying published articles / reports / theses
- All other non-personal data (and code) produced in the project

28. How will you share your research data (and code)?

- All data will be uploaded to 4TU.ResearchData

29. How will you share research data (and code), including the one mentioned in question 22?

- All anonymised or aggregated data, and/or all other non-personal data will be uploaded to 4TU.ResearchData with public access

30. How much of your data will be shared in a research data repository?

- 100 GB - 1 TB

31. When will the data (or code) be shared?

- As soon as corresponding results (papers, theses, reports) are published

32. Under what licence will be the data/code released?

VI. Data management responsibilities and resources

33. Is TU Delft the lead institution for this project?

- Yes, leading the collaboration - please provide details of the type of collaboration and the involved parties below

STICHTING RADBOUD UNIVERSITEIT The Netherlands, partner - collaboration in experiments

34. If you leave TU Delft (or are unavailable), who is going to be responsible for the data resulting from this project?

Geeske Langejans, the project PI will be be responsible for the data resulting from this project. Email: g.langejans@tudelft.nl

35. What resources (for example financial and time) will be dedicated to data management and ensuring that data will be FAIR (Findable, Accessible, Interoperable, Re-usable)?

We do not expect to exceed the free 4TU.ResearchData range and therefore there are no additional costs of long term preservation.