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## Plan Overview

*A Data Management Plan created using DMPTuuli*

**Title:** Teachers as game jam organisers - expectations and experiences

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**Funder:** The Research Council of Finland (former The Academy of Finland)

**Template:** Academy of Finland data management plan guidelines (2021-2023)

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### Project abstract:

Eight teachers of four general upper secondary schools in Espoo, Finland, are organising their first game jam event in January 2024. In this project, we collect and map their expectations prior to the event and their experiences of the event after it.

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# Teachers as game jam organisers - expectations and experiences

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## 1. General description of data

**1.1 What kinds of data is your research based on? What data will be collected, produced or reused? What file formats will the data be in? Additionally, give a rough estimate of the size of the data produced/collected.**

This research is based on online questionnaire data. The questionnaires (pre-and post-event) will be sent as a link to the eight informants.

The data consist of background demographics (gender, age, experience of game jams as participant and organiser, experience as a teacher) and open-ended questions (expectations regarding the game jam event and own role as a game jam organiser prior to the event, and experiences of the game jam event and own role as a game jam organiser after the event). This written data set will be collected with LimeSurvey, provided by Tampere University. The data collected will likely be under 100 GB.

Additionally, there is an option to compare this data set to an existing data set collected 2012-2019 as interviews by Tampere University researcher Ville Kankainen, of which one article has been published: <https://doi.org/10.1145/3337722.3341840>.

**1.2 How will the consistency and quality of data be controlled?**

The project does not aim to collect sensitive data, but it is not possible to control the content of open-ended answers. Thus, the PI of the project, Riikka Aurava, will be the only person to read raw data, and will delete all sensitive information before the data set is used by other researchers in the project. As the group of informants is rather small (8), it is possible they can be identified based on their answers. Special care will be taken that all publications in this project will protect the informants and no quotes or data that might harm the participants professionally or personally will not be published.

As the two questionnaires are meant to be combined to be able to compare participants' pre- and post-event answers, the participants are advised to choose a nickname for themselves and use the same nickname in both questionnaires. This will eliminate the need to use participants' names in the questionnaires.

The background demographics described in question 1.1 will be answered in open-ended fields. For the publications, applicable categorisations will be formed to group informants so as not to point directly to individuals.

## 2. Ethical and legal compliance

**2.1 What legal issues are related to your data management? (For example, GDPR and other legislation affecting data processing.)**

Personal data as defined by GDPR will be collected in the research process. The questionnaires ask participants' age and gender, as well as their opinions and experiences, mostly regarding their professional activities. No direct identifiers will be collected, but as the group of participants is very small and concerns an identifiable event, almost all data collected can be regarded as indirect or strong indirect identifiers.

As the questionnaires allow open-ended answers, it is possible that the informants will also provide personal data of third parties. The informants will be asked not to include identifiable personal data or sensitive data in their answers, and the PI of the project will delete any direct identifiers from the data set before the data is read and analysed by other researchers.

**2.2 How will you manage the rights of the data you use, produce and share?**

The participants have given their consent to use their answers for scientific research and academic publishing. The lawful basis for processing personal data is the EU General Data Protection Regulation Article 6 Paragraph 1 and the Data Protection Act (1050/2018) 4 §: Public interest or the exercise of official authority (Scientific or historical research purposes or statistical purposes). Both authors in the project (Annakaisa Kultima and Riikka Aurava) have the right to use the data set, together and independently. The data will not be made available for wider reuse since it contains identifiable personal information.

The research project is classified as contract research, as the authors are affiliated in different universities (Kultima at Aalto University and Aurava at Tampere University), and as Aurava is funded by Research Council of Finland (former Academy of Finland) in the Centre of Excellence in Game Culture Studies.

## 3. Documentation and metadata

**3. How will you document your data in order to make the data findable, accessible, interoperable and re-usable for you and others? What kind of metadata standards, README files or other documentation will you use to help others to understand and use your data?**

The data set will not be published to others than the participating researchers.

The metadata will include the purpose of the data collection, the description of the data (qualitative open-ended online questionnaire, amount of participants), description of the data collection process, the process of removing and deleting any possible sensitive personal information, the choosing of aliases for informants and other possible editing to minimise the risk of identifying individuals, the software used for analysing the data (atlas.ti), and the reason for why the data set itself will not be published (confidentiality, data includes identifiable information).

## 4. Storage and backup during the research project

**4.1 Where will your data be stored, and how will the data be backed up?**

The data set consists of text files. Data will be collected with LimeSurvey provided by Tampere University. It will then be moved to Excel (Microsoft Office) provided by Tampere University to be edited by Riikka Aurava, in order to remove and delete all sensitive personal information. After that, the data set will be moved to Atlas.ti to be accessed and analysed by both authors. The data will be protected by researchers' personal usernames and passwords at all times.

A backup of the data set will be stored on an external hard drive, stored in a locked room in a locked cupboard.

#### 4.2 Who will be responsible for controlling access to your data, and how will secured access be controlled?

Riikka Aurava is the responsible person for data storing and access. The secured access is controlled by usernames and passwords of Aalto University and Tampere University respectively. Only the two named researchers will have access to the data.

### 5. Opening, publishing and archiving the data after the research project

#### 5.1 What part of the data can be made openly available or published? Where and when will the data, or its metadata, be made available?

Only metadata can be published or made openly available, to protect the privacy of the informants. The metadata will be made available after the data set is processed to be available for analysis (all possible direct identifiers and sensitive personal information deleted by Riikka Aurava) in Etsin Research Data Finder (<https://etsin.fairdata.fi/>).

#### 5.2 Where will data with long-term value be archived, and for how long?

The data will be archived for potential re-use for 10 years. The data will be archived in Fairdata IDA (<https://www.fairdata.fi/ida/>).

### 6. Data management responsibilities and resources

#### 6.1 Who (for example role, position, and institution) will be responsible for data management?

Riikka Aurava (PhD researcher, MA, Tampere University) will be responsible for data management throughout the research project. Annakaisa Kultima (University Lecturer, Aalto University) will be co-responsible for data management during the analysis and publishing phases of the research project.

#### 6.2 What resources will be required for your data management procedures to ensure that the data can be opened and preserved according to FAIR principles (Findable, Accessible, Interoperable, Re-usable)?

Basic facilities (personal online storage for data, laptops, usernames and passwords, software for data processing) will be provided by the institutions (Tampere University for Riikka Aurava, Aalto University for Annakaisa Kultima). The occupying institutions also provide the researchers' time used for data curation as part of their jobs. The services for publishing metadata and storing the data set for reuse will be provided by Fairdata.fi, funded by the Finnish Ministry of Education and Culture.