A Customized Intervention Approach to the Formation of Social Media Literacy

A Data Management Plan created using DMPonline.be

Creator: n.n. n.n.

Affiliation: KU Leuven (KUL)

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Project abstract:

Both society and the scholarly community have called for more insight into how to equip adolescents with social media literacy, i.e., cognitive and affective skills that minimize risks and maximize opportunities from social media use. Media literacy is typically developed through formal interventions in which educators instruct adolescents on how to understand and evaluate media messages. However, the few existing social media literacy intervention studies have come to inconsistent results in terms of effectively increasing skills and reducing negative social media effects. That is likely because these interventions all adopt a generic approach, even though adolescents differ in how they experience social media and have thus different social media literacy needs. For that reason, the current project will test a science-based social media literacy intervention program, and thereby introduces a new theoretical framework on the formal development of social media literacy through customized interventions. The empirical value of the framework will be determined by examining the effectiveness of the intervention program in reducing harmful and strengthening beneficial positivity bias effects by use of a cluster randomized control intervention study in combination with ESM data. From a societal viewpoint, this project answers the longstanding calls from parents, educators and policy makers to provide evidence-based actions to make children flourish in a media-saturated world.

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FWO DMP (Flemish Standard DMP)

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1. Research Data Summary

List and describe all datasets or research materials that you plan to generate/collect or reuse during your research project. For each dataset or data type (observational, experimental etc.), provide a short name & description (sufficient for yourself to know what data it is about), indicate whether the data are newly generated/collected or reused, digital or physical, also indicate the type of the data (the kind of content), its technical format (file extension), and an estimate of the upper limit of the volume of the data.

				Only for digital data	Only for digital data	Only for digital data	Only for physical data
Dataset Name	Description	New or reused	Digital or Physical	Digital Data Type	Digital Data format	Digital data volume (MB/GB/TB)	Physical volume
		Please choose from the following options: • Generate new data • Reuse existing data	*Please choose from the following options:* • Digital • Physical	*Please choose from the following options:* • Observational • Experimental • Compiled/aggregated data • Simulation data • Software • Other • NA	*Please choose from the following options:* • .por, .xml, .tab, .csv,.pdf, .txt, .rtf, .dwg, .gml, … • NA	*Please choose from the following options:* • <100MB • <1GB • <100GB • <1TB • <5TB • <10TB • <50TB • >50TB • NA	No physical samples will be collected.
Experience sampling method (ESM) study (1 and 2)	Two 14-day ESM studies will be conducted among a sample of Flemish early adolescents (12–14 years old). We expect to recruit 420 participants. Participants will receive 1 background survey followed by 6 daily surveys during the two 14-day studies	New data	digital	Textual: - Participants will receive 1 background survey and 6 daily surveys each day per ESM study (note that they will particpate in two ESM studies). These surveys will initially be formulated in Word but will be sent out using specific software (see below). -At the beginning of the background survey, participants will have to fill in an online informed consent form. The parents of the participants will receive the passive informed consent form via mail or smartschool (PDF). SOftware: - The surveys will be sent out using m-Path , an app that allows real-time monitoring of participants and follows the GDPR protocols. - After data collection, data will be downloaded from the m-Path app and analysed using R and Mplus.	Textual: The surveys and informed consents will be in Word/PDF format. SOftware: - Data will be downloaded and implemented in R and Mplus in .csv format.	Textual: The surveys and informed consents are expected to be below 1GB. SOftware: The data files of the ESM studies (.csv) are expected to be between 1 and 5GB.	

If you reuse existing data, please specify the source, preferably by using a persistent identifier (e.g. DOI, Handle, URL etc.) per dataset or data

type:

No existing data of previous projects will be used.

Are there any ethical issues concerning the creation and/or use of the data (e.g. experiments on humans or animals, dual use)? Describe these issues in the comment section. Please refer to specific datasets or data types when appropriate.

- Yes, human subject data

Data will be collected among young individuals aged 12 to 14. Attention will be paid to the privacy/anonymity of participants. Ethical approval has been obtained (PRET: G-2023-6591-R2(AMD)).

Will you process personal data? If so, briefly describe the kind of personal data you will use in the comment section. Please refer to specific datasets or data types when appropriate.

- Yes

Demographic, personality, well-being and social media use data will be collected from young adolescents.We will work with pseudonymised/anonymized data and have received ethical approval for this via the PRET platform (G-2023-6591-R2(AMD)). In this approval application, we thoroughly explain how we will pseudonymise the data and which particular safety measures will be taken.
ESM studies: We will provide each participant with a unique identification code to link the background questionnaires to the daily dairy checklists, to link the two ESM studies over time. The identification codes will only be used by the researchers and solely for the purpose of linking participants' data over different data collection points. All information that allows identification of the participants (e.g., email address) will be kept in a separate data file that will be encrypted and can only be accessed by a password known by the primary researcher. Furthermore, this file will be deleted as soon as the research project is completed.

Does your work have potential for commercial valorization (e.g. tech transfer, for example spin-offs, commercial exploitation, …)? If so, please comment per dataset or data type where appropriate.

- No

Do existing 3rd party agreements restrict exploitation or dissemination of the data you (re)use (e.g. Material/Data transfer agreements/ research collaboration agreements)? If so, please explain in the comment section to what data they relate and what restrictions are in place.

- No

Are there any other legal issues, such as intellectual property rights and ownership, to be managed related to the data you (re)use? If so, please explain in the comment section to what data they relate and which restrictions will be asserted.

- No

2. Documentation and Metadata

Clearly describe what approach will be followed to capture the accompanying information necessary to keep data understandable and usable, for yourself and others, now and in the future (e.g., in terms of documentation levels and types required, procedures used, Electronic Lab Notebooks, README.txt files, Codebook.tsv etc. where this information is recorded).

ESM studies:
We will provide a codebook with the naming of the variables, the meaning of the values, and the labels in order to interpret the dataset. This will be generated using SPSS.
R/mplus code to analyse our data will be stored in specific R/Mplus scripts.
For both studies, we will publish our materials within our organisation via the shared drive and outside our organization by making use of the Open Science Framework (OSF). Therefore, we will develop our documents with a special eye for transparency and reproducability.

Will a metadata standard be used to make it easier to find and reuse the data? If so, please specify (where appropriate per dataset or data type) which metadata standard will be used. If not, please specify (where appropriate per dataset or data type) which metadata will be created to make the data easier to find and reuse.

- No

We will make use of the personal (I-drive) and shared KU Leuven drive (J-drive) to make our research project visible within our organization. In addition, the Open Science Framework (OSF) will be used as a repository for all materials that can be publicly shared, including code books, anonymized data, code for analyses.

3. Data storage & back-up during the research project

Where will the data be stored?

Shared network drive (J-drive)
Personal network drive (I-drive)
All data will be stored and managed for the duration of the project on the secure central storage infrastructure (network drives) of KULeuven. Access is personal and
can only be obtained through the password protected intranet or through VPN. The pseudonimized data will not be stored together with the personal information.

How will the data be backed up?

Standard back-up provided by KU Leuven ICTS for my storage solution.
Data are automatically backed up when stored on the secure central storage infrastructure of KULeuven.

Is there currently sufficient storage & backup capacity during the project? If yes, specify concisely.
If no or insufficient storage or backup capacities are available, then explain how this will be taken care of.

- Yes

KU Leuven ensures sufficient storage for our data which are not exceptionally large.

How will you ensure that the data are securely stored and not accessed or modified by unauthorized persons?

All data will be encrypted and can only be accessed by a password known by the researchers working on the project. Data will be stored on the networks provided by KU Leuven, which provide high security.

What are the expected costs for data storage and backup during the research project? How will these costs be covered?

No expected costs.

4. Data preservation after the end of the research project

Which data will be retained for at least five years (or longer, in agreement with other retention policies that are applicable) after the end of the project? In case some data cannot be preserved, clearly state the reasons for this (e.g. legal or contractual restrictions, storage/budget issues, institutional policies...).

Certain data cannot be kept for 10 years or longer.
In accordance with the data management policy of KULeuven, all data will be stored for 10 years after completion of the project. After this period, all data will be deleted permanently.
All emailaddresses, names, dates of birth, ages, and other information that can identify a person will be deleted after completion of the data collection, and before disseminating the results of the study.

Where will these data be archived (stored and curated for the long-term)?

Data will remain stored on the KULeuven central network drives (J-drive) as well as on the repository of OSF where the files will be, in line with open access guidelines, stay
available in the long term.

What are the expected costs for data preservation during the expected retention period? How will these costs be covered?

No expected costs.

5. Data sharing and reuse

Will the data (or part of the data) be made available for reuse after/during the project? In the comment section please explain per dataset or data type which data will be made available.

- Yes, in an Open Access repository

If access is restricted, please specify who will be able to access the data and under what conditions.

Fully anonymized data will be provided on the Open Science Framework to encourage open science practices.

Are there any factors that restrict or prevent the sharing of (some of) the data (e.g. as defined in an agreement with a 3rd party, legal restrictions)? Please explain in the comment section per dataset or data type where appropriate.

- Yes, Privacy aspects
- Yes, Ethical aspects

All data will be fully anonymized before making this available. No identifying information will be kept and the demographic variables (gender, age) will not be sufficient to identify the respondents should anyone try to do so.

Where will the data be made available? If already known, please provide a repository per dataset or data type.

Open Science Framework (OSF) for the data derived from the ESM study.

When will the data be made available?

Upon publication of research results.

Which data usage licenses are you going to provide? If none, please explain why.

We will make use of the following license Attribution-NonCommercial-NoDerivatives 4.0 International.
CC BY-NC-ND 4.0
- The most restrictive creative commons license. This only allows people to download and share our work for no commercial gain and for no other purposes.

Do you intend to add a PID/DOI/accession number to your dataset(s)? If already available, you have the option to provide it in the comment section.

- Yes

A DOI will be attached to our data once collected and made available.

What are the expected costs for data sharing? How will these costs be covered?

No expected costs.

6. Responsibilities

Who will manage data documentation and metadata during the research project?

Lara Schreurs

Who will manage data storage and backup during the research project?

Lara Schreurs

Who will manage data preservation and sharing?

Lara Schreurs

Who will update and implement this DMP?

Lara Schreurs