

Follow the User?!

Data Donation Studies for Collecting Digital Trace Data

Session **2**: Data Donation Studies (Participant Perspective)

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👉 Part of the SPP DFG Project [Integrating Data Donations in Survey Infrastructure](#)

Agenda

1. What are data donation studies?
2. Participant perspective, including
 - 2.1 📢 Task 1: Inspect your DDPs
 - 2.2 📢 Task 2: Try donating your data



Image by Hope House Press via Unsplash

1) What are data donation studies?



Source: Image by Markus Winkler via Unsplash

Changes in legal contexts

- EU secures right to own data in Art. 15 of the General Data Protection Regulation (GDPR)
 - “The data subject shall have [...] access to the personal data” (§ Art. 15, 1)
 - “The controller shall provide a copy of the personal data” (§ Art. 15, 3)
- According to § Art. 20, users must receive their data “in a structured, commonly used and machine-readable format” (§ Art. 20, 1)

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👉 **Solution:** Platforms offer data download packages (DDPs), which users can request and download to inspect data.

👉 **Consequence:** Researchers uses DDPs as part of user-centric data donation studies.

Please raise your hand 🙋 : Who has ever tried to request their data from an online platform? 🤔

What are data donation studies?

Definition : Data donation studies are a user-centric method for collecting digital traces:

- Users have the right to request, access, and download data that platforms collect about them.
- They can make their data packages (DDPs) available to science via data donation tools (DDTs), often in the context of surveys.
- Researchers use CSS methods to filter, anonymize, and aggregate this data locally on participants' devices before any data is sent to researchers.

Which types of data do DDPs contain?

For platforms like Facebook, Instagram, or YouTube, for example... (Hase et al., 2024)

- User profiles (e.g., privacy settings)
- Activities (e.g., friends, likes, searches, exposure, analog movements)
- Content and context (e.g., ads watched, algorithmically inferred interests)

How is data from DDPs different?

Compared to **APIs** (Haim & Hase, 2023; Ohme et al., 2024)...

- Control & informed consent of users
- Longitudinal data without “rate limits”
- Partly additional measurements (e.g., exposure data; non-public data)

How is data from DDPs different?

Compared to **tracking** (Haim & Hase, 2023; Ohme et al., 2024)...

- Retrospective & often more longitudinal
- Partly additional measurements (e.g., algorithmic inferences)
- Anchored in current provisions in law (for issues with tracking, see Edelson & McCoy, 2021)

👉 but similarly burdensome for participants!

Summary: What are data donation studies?

- **Summary:** User-centric method for collecting digital traces: Users download their data packages (DDPs) from platforms and make them available to science via data donation tools (DDTs).
- **Further literature:**
 - Boeschoten et al. (2022)
 - Carrière et al. (2024)

2) Participant perspective



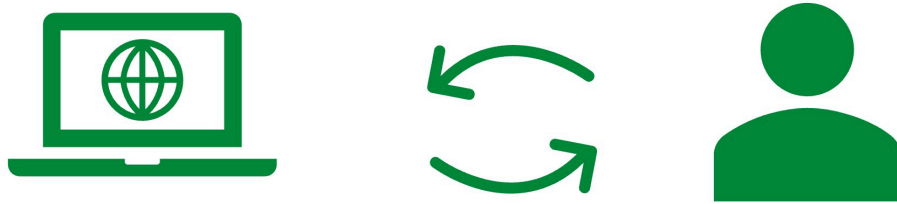
Source: Image by Markus Winkler via Unsplash

Data donation studies - participant perspective



Figure. Data donation study - participant perspective

Step I: Data request



- 1** Request
Users request their data from a platform

Figure. Data donation study - participant perspective

Step I: Data request

CREATE A NEW EXPORT


1

Select data to include

1 of 1 selected

Products


Deselect all



YouTube and YouTube Music

Watch and search history, videos, comments and other content you've created on YouTube and YouTube Music [More info](#)

☒

 Multiple formats

Show more products

Next step

Figure. Data donation study - participant perspective

Step 1: Data request

2

Choose file type, frequency & destination

Destination

Transfer to:

Send download link via email

When your files are ready, you'll get an email with a download link. You'll have one week to download your files. [Learn more](#) about how to locate, access, and share your data.

Frequency

☒ Export once
1 export

☐ Export every 2 months for 1 year
6 exports

File type & size

File type:

.zip

Zip files can be opened on almost any computer.

File size:

2 GB

Exports larger than this size will be split into multiple files.

Figure. Data donation study - participant perspective

How easy (or hard) did you find it to request your data? Did you encounter any obstacles? 🤔

Step I: Data request

Different degrees in standardization for data requests ([Hase et al., 2024](#))...

- Verification procedure
- Specification of data (metrics, observation period)
- Notification on provision of DDP
- Duration of DDP availability

Step II: Download



Figure. Data donation study - participant perspective

Step II: Download

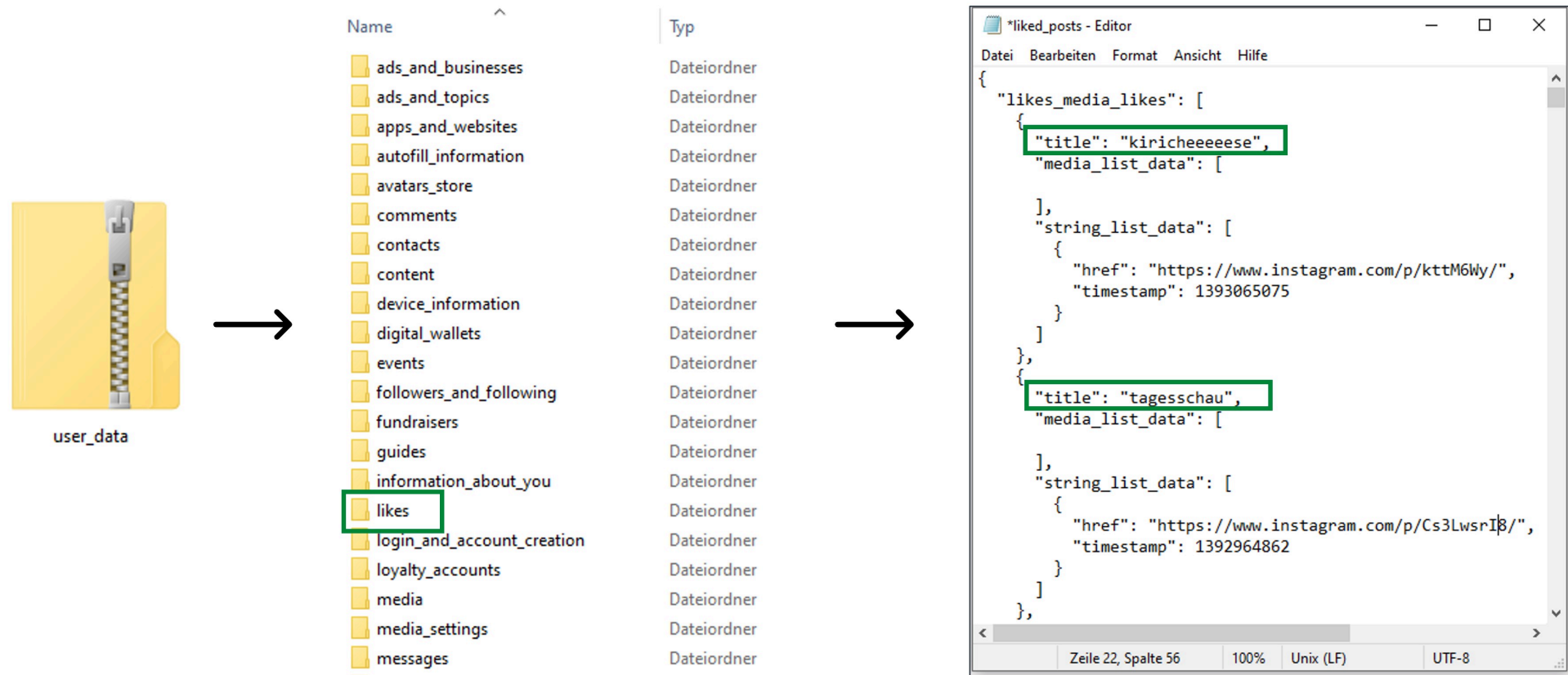


Figure. Data donation study - participant perspective

Task 1: Inspect your DDPs.

Which variables can you identify? How could you use these for research in your field?

Feel free to work in groups of 2-3 people.

Step II: Download

Different degrees in standardization for DDP content ([Hase et al., 2024](#))...

- Documentation
 - DDP structure?
 - Measurements?
- Completeness & scope
 - Missing data?
 - Limited time frames?

Step III: Data donation



Figure. Data donation study - participant perspective

Step III: Data donation

Ihre Datenspende

Wählen Sie Ihre heruntergeladene Datei. Die Datei sollte eine ZIP-Datei sein.

Datei auswählen

Anmerkung: Die weitere Verarbeitung der Datei erfolgt auf Ihrem eigenen Endgerät. Es werden noch keine Daten gespeichert oder weiter gesendet.

Weiter

[×](#) Schließen

Figure. Data donation study - participant perspective

Step III: Data donation

Ihre YouTube Datenspende

Legen Sie fest, ob Sie die untenstehenden Daten spenden möchten. Überprüfen Sie die Daten sorgfältig und passen Sie sie bei Bedarf an. Mit Ihrer Spende tragen Sie zur zuvor beschriebenen Forschung bei. Vielen Dank im Voraus.

0 Welche Kanäle haben Sie abonniert?

1 Seite

Abonnierter Kanal

DER SPIEGEL

Cafe Music BGM channel

ZEIT ONLINE

Figure. Data donation study - participant perspective

Step III: Data donation

Ihre Instagram Datenspende

Legen Sie fest, ob Sie die untenstehenden Daten spenden möchten. Überprüfen Sie die Daten sorgfältig und passen Sie sie bei Bedarf an. Mit Ihrer Spende tragen Sie zur zuvor beschriebenen Forschung bei. Vielen Dank im Voraus.

0 Wie viel Zeit haben Sie auf Instagram verbracht? (Sekunden pro Tag)

1 Seite

Datum	Verbrachte Zeit (Sekunden)
07-04-2025	193
09-04-2025	1038
12-04-2025	220
13-04-2025	988

☐ Anpassen Keine Änderungen

Figure. Data donation study - participant perspective

Task 2: Try donating your data.

Upload and inspect your data. Did you encounter any difficulties in sharing your data?

Feel free to work in groups of 2-3 people.

Bias in Data Donation Studies

Similar to tracking studies, data donation characterized by (Hase et al., 2024; Hase & Haim, 2024; Keusch et al., 2024):

- Errors in representation (coverage error, non-response error)
- Measurement errors (Missing data, Specification error)

👉 Not necessarily less biased than survey data - but subject to different bias?

👉 We will talk about this in Session 4.

Summary: Participant perspective

- **Summary:** Key steps from the participant perspective ...

1. Data request
2. Data download
3. Data donation

- **Further literature:**

- Boeschoten et al. (2022)
- Carrière et al. (2024)

Questions?

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