

Databrary: An Open Video-Based Data-Sharing System

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Developmental science relies on video to capture the complexity and richness of behavior. The Databrary project (databrary.org) is creating the cyberinfrastructure and community practices to enable open video sharing among researchers. Sharing data will increase transparency, accelerate discovery, and facilitate understanding of behavioral development.



- Free, multi-platform, open-source
- <http://github.com/databrary/datavyu>
- Audio, video, eye-, body-tracking

Search by author, topic, keyword

A screenshot of the Databrary search results page for the query "Jones joint attention". The search bar at the top contains "Jones joint attention". Below the search bar, there are several filter options: Refine Results (Excerpts, Excerpt Duration, Species, Participant Data), Advanced Search, and an Apply button. The main results area shows 123 results, with the first few entries being: "Joint attention in infants; Jones, HX, 2014", "Word learning and joint attention in infants; Jones, HX, 2015", "Joint attention in infants; Jones, HX, 2014", "Word learning and joint attention in infants; Jones, HX, 2015", and "Joint attention in infants; Jones, HX, 2014". At the bottom of the results page are page navigation links: 1 2 3 4 = 24 25 26.



A screenshot of the Databrary study detail page for "Toddler social referencing with ambiguous toy". The page includes a thumbnail image of a toddler interacting with a toy, a detailed study description, and a table of study contents. The table shows three participants: Participant 1 (292 days old, M), Participant 2 (281 days old, F), and Participant 3 (287 days old, M). The contents section lists "1 session video, 1 coding spreadsheet, 1 data file" for each participant.

**Secure web-based data library
Store video, audio, flat-file, metadata**

Preserving participant confidentiality

- Full access only to authorized researchers
- Researchers apply for authorization
- Participants grant permission to share (or not)
- Researchers transmit, Databrary maintains, Researchers respect permissions
- Standardized permission documents:
<http://github.com/databrary/policies>



- Laboratory management system
- Manage data collection
- Metadata creation, standardization
- Data provenance
- Prepare data for sharing

A screenshot of the Labnanny Investigator Dashboard for Suzanne Q. Researcher. The dashboard includes sections for "My Data", "Popular on Databrary", "From Henry Jones", and "New word-learning studies". The "From Henry Jones" section shows studies like "Joint attention in infants" and "Word learning and joint attention in infants". The "New word-learning studies" section shows studies like "Head cameras and word learning - mom, baby" and "Mystery box word learning, pre-schoolers".

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