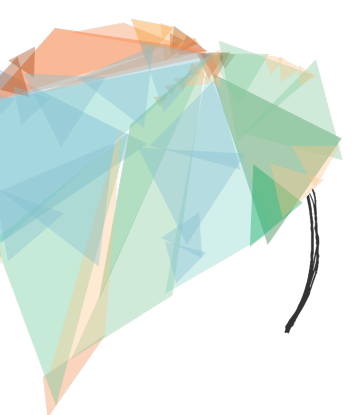# Sharing displays and data from vision science research with Databrary

R.O. Gilmore, K.E. Adolph, D.S. Millman, L. Steiger, and D.A. Simon

Vision Sciences Society 2015 – Poster 26.4031 – *rick@databrary.org*

PROBLEM

The open sharing of data and workflows from scientific research has gained increasing attention in many fields and has become a priority for research funders. Databrary (databrary.org) is a digital data library specialized for storing and sharing video and research data and metadata. Vision scientists often present temporally varying visual displays to human or non-human animal observers and may collect gaze position, kinematic data, or other physiological recordings simultaneously. Some vision scientists collect identifiable video recordings of participants for use in off-line tagging or coding. Databrary may be especially well suited for these use cases because of the library's focus on uploading, organizing, storing, and sharing research data and metadata collected in the course of behavioral research. Databrary has developed policies that enable identifiable information to be shared with the permission of research participants.

PRIVACY & SECURITY

Videos may contain identifiable information such as faces, voices, and images of places. Databrary ensures that identifiable information can be shared in two ways:

- **Restricting Access**

  Only those with independent researcher status at an institution may apply for authorization. Applicants promise to uphold ethical principles and sign an access agreement co-signed by the institution.

- **Securing Permission to Share**

  Identifiable data may only be shared if participants have given permisssion. The Databrary release template may be adapted for specific research protocols.
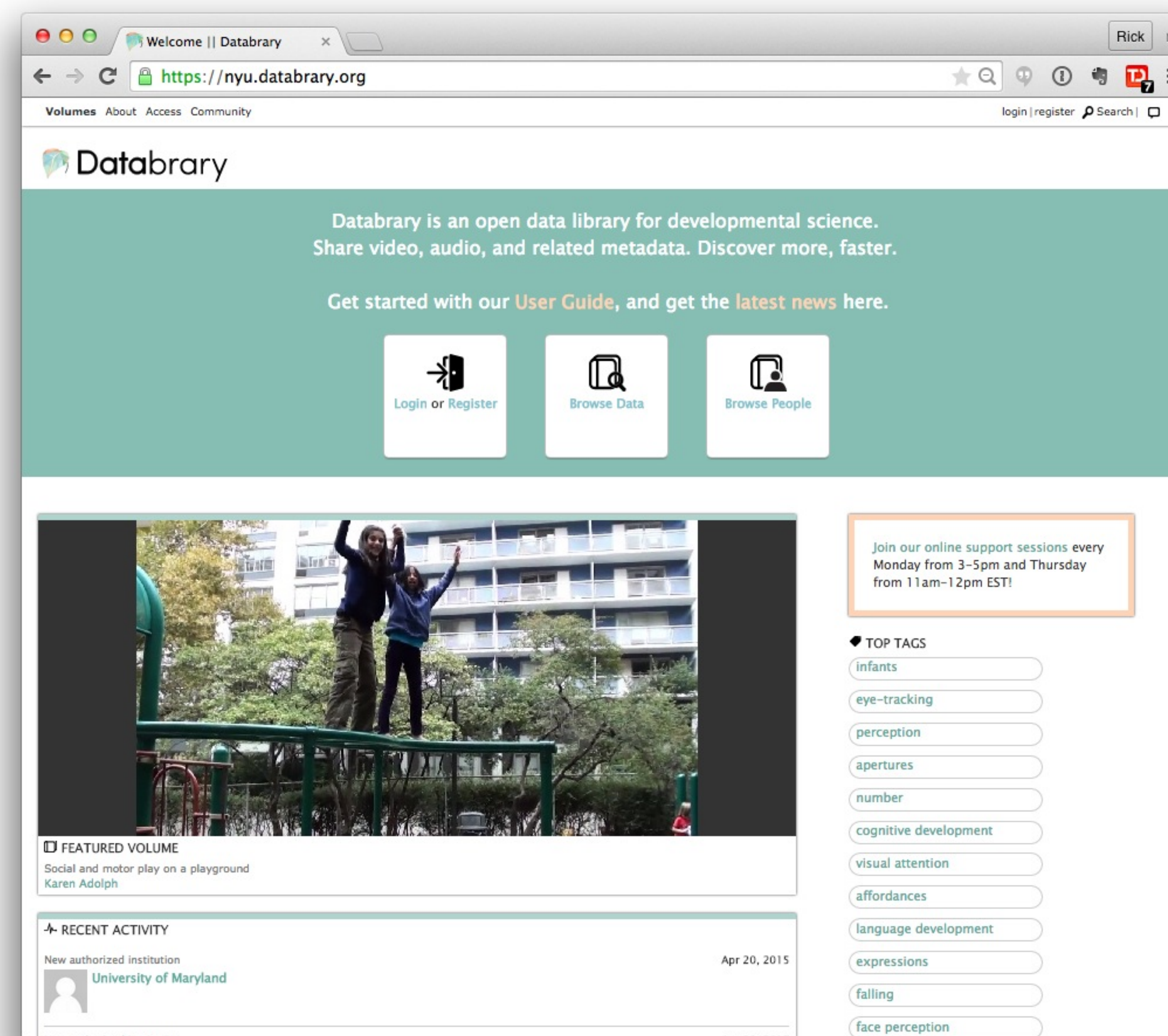
TECHNOLOGY STACK

Databrary is built on a PostreSQL database using the Scala Play framework and JavaScript. Data are preserved indefinitely in a secure data storage facility at NYU managed by central IT. There is no cost to use the system; an institutional subscription model is under development. All code is hosted on GitHub.
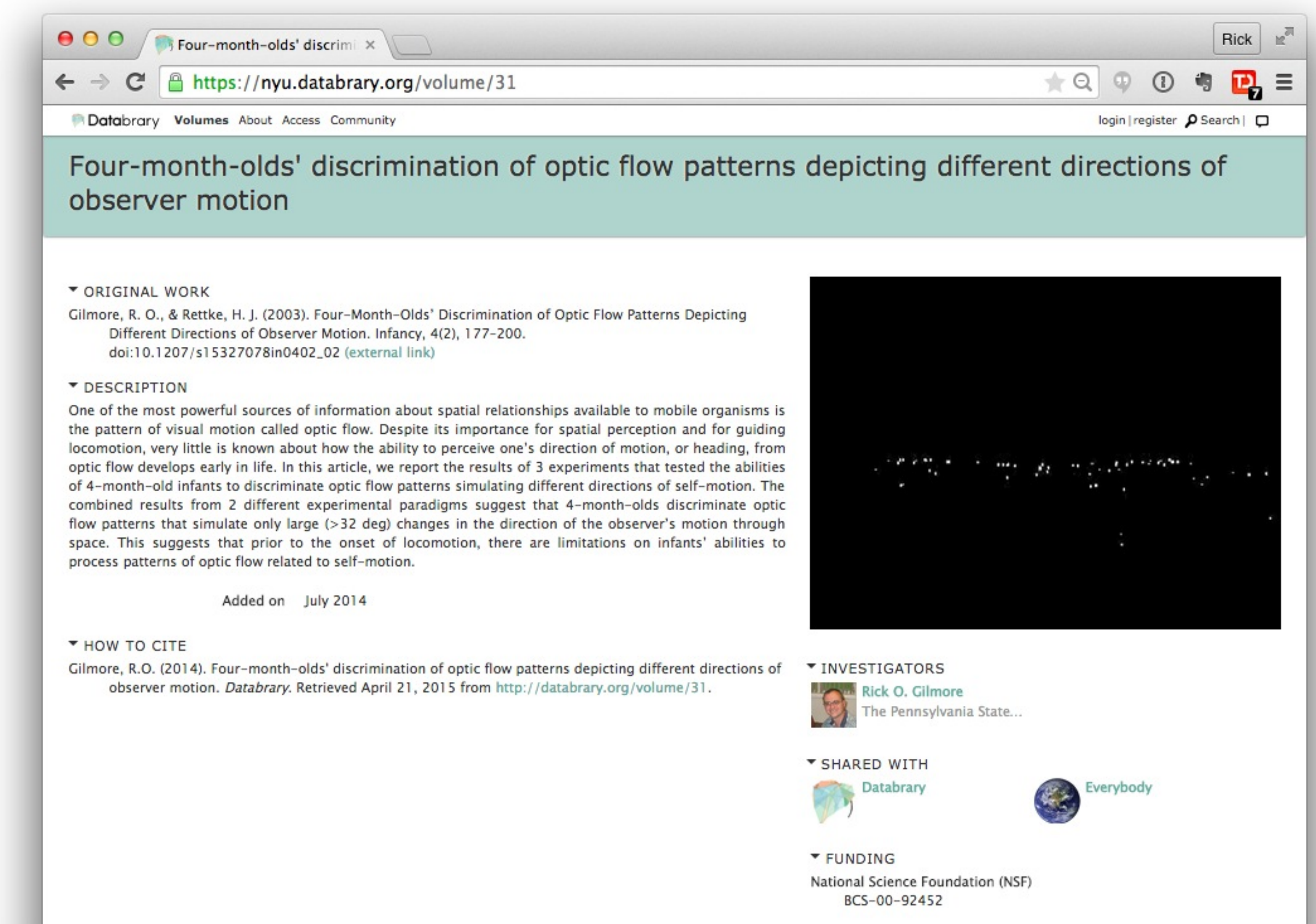
ACKNOWLEDGMENTS

DATABRARY.ORG

SESSION-LEVEL DATA MANAGEMENT

VOLUME/DATASET PAGE

Each dataset or study has a page with summary, owner, funding, citation information, materials, and links to publications.

TIMELINE