

The Duke Research Data Repository

Overview and demo

Moira Downey
David Chandek-Stark
Samvera Partners
July 9th, 2021

Background

2016

Duke Digital Research Faculty Working Group Report

2017

Four new positions hired to support RDM & Curation

Digital Repositories at Duke

Collections and scholarship from Duke University Libraries

About the Repositories

Contact Us

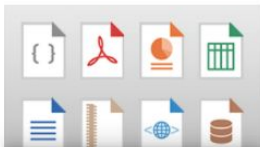


— LIBRARY COLLECTIONS —



Digitized Collections

Search digitized historic photographs, advertisements, texts and more from Duke's unique library collections



Acquired Materials

Search digital materials licensed or purchased by the library, including e-books, data sets, and more

— DUKE SCHOLARSHIP —



Research Data Repository

Find and submit research data produced by Duke faculty and students



DukeSpace

Find and submit publications, theses, and dissertations by Duke faculty and students



Contact Us

411 Chapel Drive
Durham, NC 27708
(919) 660-5870
Perkins Library Service Desk

Digital Repositories at Duke

Report a Problem with the Repositories
About Digital Repositories at Duke
Accessibility Policy
Deaccession and DMCA Takedown Policy



Sign Up for Our Newsletter
Re-use & Attribution / Privacy
Support the Libraries



Library Staff Login

RDR Origins in Duke Digital Repository (Hydra/Fedora stack)

What did we customize?

No self-deposit

The screenshot shows the top navigation bar with 'DUKE UNIVERSITY LIBRARIES' and 'DIGITAL REPOSITORY RESEARCH DATA'. A search bar is present with the text 'Enter search terms'. A 'Login' button is in the top right. The main content area features a white box with the text: 'The Research Data Repository is a service of the Duke University Libraries that provides curation, access, and preservation of research data produced by the Duke community. [Learn more >](#)'. Below this text are two buttons: 'Deposit your data' (circled in red) and 'Browse datasets'. The bottom section is divided into 'What We Collect' and 'Recently Added Datasets'. 'What We Collect' includes a list of links: Policies, Ready your data for deposit, Frequently Asked Questions, and Contact us. 'Recently Added Datasets' lists two entries with their titles and DOIs.

- Accommodate curatorial review
- Shibboleth authentication to deposit
- Home grown deposit workflow
- Box and Globus "integrations"
- Local batch upload

No self-deposit

Data from: Fishing for food: values and benefits associated with coastal infrastructure

[Export Files](#) [Get Data from Globus](#) [More About Globus](#)

i You deposited this dataset. [Request Modifications](#)

While there is substantial literature about the socio-cultural characteristics and values associated with recreational and commercial fisheries in the U.S., studies directed at those who 'fish for food' - those who depend on consuming their catch to various degrees - are relatively sparse. We define 'fishing for food' to include aspects that go beyond traditional definitions of 'subsistence' or 'recreational fishing', considering food security and access, as well as the less obvious socio-cultural motivations behind the activity. Using qualitative data collected through 80 semi-structured interviews with fishers in the summer and fall of 2018 in Carteret County, North Carolina, this study aims to better understand the ... [\[Read More\]](#)

Total Size
3 files (2.37 MB)

Data Citation


Nieman, C. M., Rudman, A. N., Chory, M. L., Murray, G., Fairbanks, L., Campbell, L. M. (2021). Data from: Fishing for food: values and benefits associated with coastal infrastructure. Duke Research Data Repository.
<https://doi.org/10.7924/r4057m91d>

Creator	Type
Murray, Grant Campbell, Lisa M	Dataset

- Data owners can request modifications through the UI
- Generates Qualtrics response

Tweaked search results & display

DUKE UNIVERSITY LIBRARIES DIGITAL REPOSITORY RESEARCH DATA

Enter search terms 

Login


Limit your search

- Subject >
- Creator >
- Format >
- Affiliation >
- Type >
- Publication Year >


« Previous | 1 - 10 of 139 | Next »

Sort by relevance ▾ 10 per page ▾


Data and scripts from: A Bayesian approach for predicting photogrammetric uncertainty in morphometric measurements derived from UAS

 **Data Citation:** Bierlich, K. C., Schick, R. S., Hewitt, J., Dale, J., Goldbogen, J. A., Friedlaender, A. S., & Johnston, D. W. (2020). Data and scripts from: A Bayesian approach for predicting photogrammetric uncertainty in morphometric measurements derived from UAS. Duke Research Data Repository. V2 <https://doi.org/10.7924/r4sj1jj6s>

Data and scripts from: High-dimensional percolation criticality and hints of mean-field-like caging of the random Lorentz gas

 **Data Citation:** Charbonneau, B., Charbonneau, P., Hu, Y., & Yang, Z. (2021). Data and scripts from: High-dimensional percolation criticality and hints of mean-field-like caging of the random Lorentz gas. Duke Research Data Repository. <https://doi.org/10.7924/r4s46r07b>

Pocosin wetland status and owner type for North Carolina

 **Data Citation:** Warnell, K., & Olander, L. (2021). Pocosin wetland status and owner type for North Carolina. Duke Research Data Repository.

- Search only surfaces top level datasets (parent works) or collections

Tweaked search results & display

Data and scripts from: Percolation thresholds on high-dimensional D_n and E_8 -related lattices

The screenshot shows a search result page for a dataset. At the top, there are buttons for 'Export Files', 'Get Data from Globus', and 'More About Globus'. A 'More Options' button is highlighted with a red box and a red arrow pointing to the text 'Curator actions'. Below this is a vertical navigation menu with 'Home', 'Simons Collaboration on Cracking the Glass Problem', and 'This Dataset', also highlighted with a red box and a red arrow pointing to the text 'Vertical display of dataset hierarchy, including parent collection'. The main content area is divided into two columns. The left column contains a description of the site and bond percolation problems, a 'Total Size' of 63 files (412 KB), and a 'Data Citation' for Hu, Y., & Charbonneau, P. (2021). This section is highlighted with a red box and a red arrow pointing to the text 'Data description, citation and total size'. The right column contains a 'USAGE STATS' button. Below the description is a metadata table with two columns: 'Creator' and 'Format'. The 'Creator' column lists Hu, Yi and Charbonneau, Patrick. The 'Format' column lists EPS, M, and DAT. Below this is a 'Related Materials' section with a link to a Physical Review E article. The 'Funding Agency' is Simons Foundation, and the 'Grant Number' is 454937. The 'Contact' is Yi Hu: yi.hu@duke.edu. The 'Rights' are Creative Commons CC0 1.0 Universal. Below the metadata table is a section titled 'Items' which contains a table with columns for 'Thumbnail', 'Title', 'Date Uploaded', and 'Actions'. The table lists two items: 'readme.md' and 'Data', both uploaded on 2021-06-02. The 'Actions' column for 'readme.md' has a 'Download' button. This section is highlighted with a red box and a red arrow pointing to the text 'Files and folders'.

Export Files - Get Data from Globus More About Globus

More Options -

Home
Simons Collaboration on Cracking the Glass Problem
This Dataset

USAGE STATS

The site and bond percolation problems are conventionally studied on (hyper)cubic lattices, which afford straightforward numerical treatments. The recent implementation of efficient simulation algorithms for high-dimensional systems now also facilitates the study of D_n root lattices in n dimension as well as E_8 -related lattices. Here, we consider the percolation problem on D_n for $n=3$ to 13 and on E_8 relatives for $n=6$ to 9. Precise estimates for both site and bond percolation thresholds obtained from invasion percolation simulations are compared with dimensional series expansion based on lattice animal enumeration for D_n lattices. As expected, the bond percolation threshold rapidly approaches the Bethe lattice limit as $n \dots$ [Read More]

Total Size
63 files (412 KB)

Data Citation
Hu, Y., & Charbonneau, P. (2021). Data and scripts from: Percolation thresholds on high-dimensional D_n and E_8 -related lattices. Duke Research Data Repository. <https://doi.org/10.7924/r4fx7bk95>

Creator Hu, Yi Charbonneau, Patrick	Format EPS M DAT
DOI 10.7924/r4fx7bk95	Related Materials Y. Hu and P. Charbonneau. Percolation thresholds on high-dimensional D_n and E_8 -related lattices. Physical Review E, 103, 062115 (2021). https://doi.org/10.1103/PhysRevE.103.062115
Subject Invasion percolation Percolation threshold Series expansion	Funding Agency Simons Foundation
Publication Date June 2, 2021	Grant Number 454937
ARK ark:/87924/r4fx7bk95	Contact Yi Hu: yi.hu@duke.edu
Affiliation Chemistry	Rights Creative Commons CC0 1.0 Universal
Publisher Duke Research Data Repository	
Type Dataset	

Items

Thumbnail	Title	Date Uploaded	Actions
	readme.md	2021-06-02	Download
	Data	2021-06-02	

Curator actions

Vertical display of dataset hierarchy, including parent collection

Data description, citation and total size

Depositor-supplied and curator/system-generated metadata

Files and folders

DOI assignment

Image data from: Delivery-corrected imaging of fluorescently-labeled glucose reveals distinct metabolic phenotypes in murine breast cancers

The screenshot shows a digital repository interface. At the top, there are three buttons: 'Export Files' (green), 'Get Data from Globus' (grey), and 'More About Globus' (grey). Below these is a paragraph of text describing the data. Underneath the text are two columns: 'Total Size' (3 files, 391 MB) and 'Data Citation' (Frees, A. (2014). Image data from: Delivery-corrected imaging of fluorescently-labeled glucose reveals distinct metabolic phenotypes in murine breast cancers. Duke Digital Repository. <http://hdl.handle.net/10161/9276>). At the bottom, there are two columns: 'Creator' (Frees, Amy) and 'Format' (XLSX). On the right side, there is a 'More Options' dropdown menu with the following items: 'Edit', 'Delete', 'File Manager', 'Assign & Register DOI' (circled in red), 'Add to collection', and 'Attach Dataset'. Below the dropdown menu is a blue button labeled 'USAGE STATS'.

Export Files **Get Data from Globus** [More About Globus](#)

When monitoring response to cancer therapy, it is important to differentiate changes in glucose tracer uptake caused by altered delivery versus a true metabolic shift. Here, we propose an optical imaging method to quantify glucose uptake and correct for in vivo delivery effects. Glucose uptake was measured using a fluorescent D-glucose derivative 2-(N-(7-Nitrobenz-2-oxa-1,3-diazol-4-yl)Amino)-2-deoxy-D-glucose (2-NBDG) in mice implanted with dorsal skin flap window chambers. Additionally, vascular oxygenation (SO₂) was calculated using only endogenous hemoglobin contrast. Results showed that the delivery factor proposed for correction, "RD", reported on red blood cell velocity and injected 2-NBDG dose. Delivery-corrected 2-NBDG uptake (2-NBDG60/RD) inversely correlated with blood glucose in normal tissue, ... [\[Read More\]](#)

Total Size
3 files (391 MB)

Data Citation
Frees, A. (2014). Image data from: Delivery-corrected imaging of fluorescently-labeled glucose reveals distinct metabolic phenotypes in murine breast cancers. Duke Digital Repository. <http://hdl.handle.net/10161/9276>

Creator
Frees, Amy

Format
XLSX

More Options

- Edit
- Delete
- File Manager
- Assign & Register DOI
- Add to collection
- Attach Dataset

[USAGE STATS](#)

- Curators assign DOIs post-ingest
- DOIs registered via Crossref API

Dataset versioning

Items

Thumbnail	Title	Date Uploaded	Actions
	README.md	2021-07-06	Download
	README.rmd	2021-07-06	Download
	Uncertainty_Model.zip	2021-07-06	Download

Versions

Version	DOI	Comment	Publication Date
2	10.7924/r4sj1jj6s	Code and data have been updated to compare measurement uncertainty under two Ecological Scenarios: 1) length-based maturity classification of humpback whales, and 2) population level-morphological relationship between rostrum to blowhole distance and total body length for Antarctic minke whales. Both ecological scenarios compare uncertainty when using only a barometer (Model 1) vs. a barometer and laser altimeter (Model 2). Validation results are also automatically generated.	2021-07-06
1	10.7924/r4wd3x28b		2020-11-30

- Each dataset receives a new DOI
- DOIs are related to one another using Dublin Core replaces and isReplacedBy
- Old versions run banner with link to new version

Globus: submission

Data Submission Form

Data Deposit Size

Researchers are entitled to up to 100GB of repository storage at no added cost. Please see our [Pricing for Storage Policy](#) for more information.

Is the approximate uncompressed size of your data:

Less than 10GB
Between 10GB and 100GB
Greater than 100GB



- Depositors with less than 10GB will be prompted to use Box for data transfer
- Anything larger 10GB will guide depositors to Globus
- Curation staff create specific share for depositor in Globus and send invitation to upload

Globus: download



Data from: In vivo pump-probe and multiphoton fluorescence melanoma and pigmented lesions in a mouse model

 [Get Data from Globus](#)

[More About Globus](#)

We demonstrate a multimodal approach that combines a pump-probe with confocal reflectance and multiphoton autofluorescence microscopy. Pump-probe microscopy has been proven to be of great value in analyzing thin tissue sections of pigmented lesions, as it produces molecular contrast which is inaccessible by other means. However, the higher optical intensity required to overcome scattering in thick tissue leads to higher-order nonlinearities in the optical response of melanin (e.g., two-photon pump and one-photon probe) that present additional challenges for interpreting the data. We show that analysis of pigment composition in vivo must carefully account for signal terms that are nonlinear with respect to the pump and probe ... [\[Read More\]](#)

Total Size

39 files (34.8 GB)

- All data are available for transfer via Globus
- Datasets larger than 3GB are **ONLY** available via Globus

Bulk downloading smaller data

The screenshot displays the Duke University Research Data Repository interface. At the top, the header includes the logo for "DUKE UNIVERSITY LIBRARIES" and "DIGITAL REPOSITORY RESEARCH DATA". A search bar with the placeholder text "Enter search terms" and a search icon is visible. The main content area shows the title of a dataset: "Data from: Non-monotonic kilohertz frequency neural block thresholds arise from amplitude- and frequency-dependent charge imbalance". Below the title, there is a green button labeled "Export Files" with a download icon. A red box highlights this button, and a callout box points to it, showing a modal window titled "Please choose an export format:". This modal window lists three options: ".zip compressed ZIP (default)", ".tgz compressed tar file", and ".tar uncompressed tar file". Below the "Export Files" button, there is a section for "Total Size" which states "6 files (73.1 KB)", also highlighted with a red box. At the bottom, there is a "Data Citation" section with the following text: "Peña, E., Pelot, N. A., & Grill, W. M. (2021). Data from: Non-monotonic from amplitude- and frequency-dependent charge imbalance. Duke Research Data Repository. <https://doi.org/10.7924/r4pn94v5h>".

DUKE UNIVERSITY LIBRARIES DIGITAL REPOSITORY RESEARCH DATA

Enter search terms

Login

Data from: Non-monotonic kilohertz frequency neural block thresholds arise from amplitude- and frequency-dependent charge imbalance

Export Files

Please choose an export format:

- .zip compressed ZIP (default)
- .tgz compressed tar file
- .tar uncompressed tar file

Total Size
6 files (73.1 KB)

Data Citation

Peña, E., Pelot, N. A., & Grill, W. M. (2021). Data from: Non-monotonic from amplitude- and frequency-dependent charge imbalance. Duke Research Data Repository. <https://doi.org/10.7924/r4pn94v5h>

Live demo!

Questions?

moira.downey@duke.edu
david.chandek.stark@duke.edu

<https://research.repository.duke.edu>
<https://gitlab.oit.duke.edu/ddr/rdr>