

**Open Access**  
**Digital Research and Scholarship**  
**University Libraries**

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Commission on Research

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# Open Access Defined

*“Open-access (OA) literature is digital, online, free of charge, and free of most copyright and licensing restrictions” ([Suber, 2004](#))*

# Value of Open Access

- Visibility of scholarship
- Broader impact
- Dissemination of new knowledge

# Open Access Pathways

## 1. Publication in Open Access Journals

### – Publishers

- [BioMed Central](#)
- [PLOS](#)

### – Journals

- [The BMJ](#)
- [Elementa](#)
- [PeerJ](#)
- [DOAJ](#)

# Open Access Pathways

## 2. Self-archiving in Open Repositories

- Institutional: Preprints, postprints, working papers, technical reports, datasets, theses and dissertations
  - [VTechWorks](#), [VTechData](#)
- Disciplinary: [PMC](#), [arXiv](#), [SSRN](#)

# **State of Scholarly Communication**

## ***(Open Research Pathways)***

- Other forms of digital scholarship
- Datasets as legitimate form of scholarly record
- Open access policies and funder sharing/  
management requirements
- Researcher networking and profile systems

# Digital Scholarship

## Journals/Papers

## Open Books/Open Educational Resources

- HathiTrust
- OER Commons
- 4500 OA books

[Directory of Open Access Books](#)

## Digital Research Projects

- Digital Libraries
- Digital Humanities Projects

## Rights/Licenses

- Author Rights
- Creative Commons Licenses

# Scholarly Record

## Journals/Papers

### Research Data

“[a]cceptable products must be citable and accessible including but not limited to publications, data sets, software, patents, and copyrights.”

([NSF Grant Proposal Guide, 2014](#))

“Data should be considered legitimate, citable products of research. Data citations should be accorded the same importance in the scholarly record as citations of other research objects, such as publications.”

([Martone, M., \(ed.\) 2014](#))

### Data Journals

- Nature’s [Scientific Data](#)
- [Biodiversity Data Journal](#)

### Data repositories

- 773 US data repositories  
[Registry of data repositories](#)
- Figshare
- Dryad

### Discovery & Credit/Attribution

- [Global Open Data Index](#)
- Subscription-based  
[Data Citation Index](#)
- [DataCite](#)



# Policies

## [Publisher Policy](#)

## Funder Policy

79 funder policies

[Registry of OA Policies](#)

Funder DMP grant application requirements

- DOE, NSF, NEH, NIH

Data Management Plan:

- Data types
- Data standards
- Sharing
- Use and Reuse
- Storage and preservation

FASTR (S.779/H.R.1477)

- DOA, DOC, DOD, DOE (Educ), DOE, DHHS, DHS, DOT, EPA, NASA, NSF

## Institutional Policy

540 institutional policies

[Registry of OA Policies](#)

- 130 US institutional policies
- Cornell (SCHEV)
- UC Boulder (SCHEV)
- Rutgers (SCHEV)
- University of Maryland College Park (SCHEV) **ETDs**
- Texas A&M (SCHEV) **ETDs**
- Virginia Tech **ETDs**
- MIT
- Caltech
- Georgia Tech
- Harvard (10 schools, centers)
- University of California
- NCAR

# Discovery and Impact

## Journals/Papers

- Citations
- JIF

## Indicators

### Altmetrics

- Github forks
- Repository usage stats
- Tweets
- Facebook likes
- Slideshare/  
Vimeo views

## Profiles

- Google Scholar Profiles
- Academia
- ResearchGate
- Personal websites
- VIVO

## Identifiers

### Content

- DOIs
- URIs

### Researcher

- ResearcherID
- ORCID

### Funding Source

- CrossRef Open Funder Registry

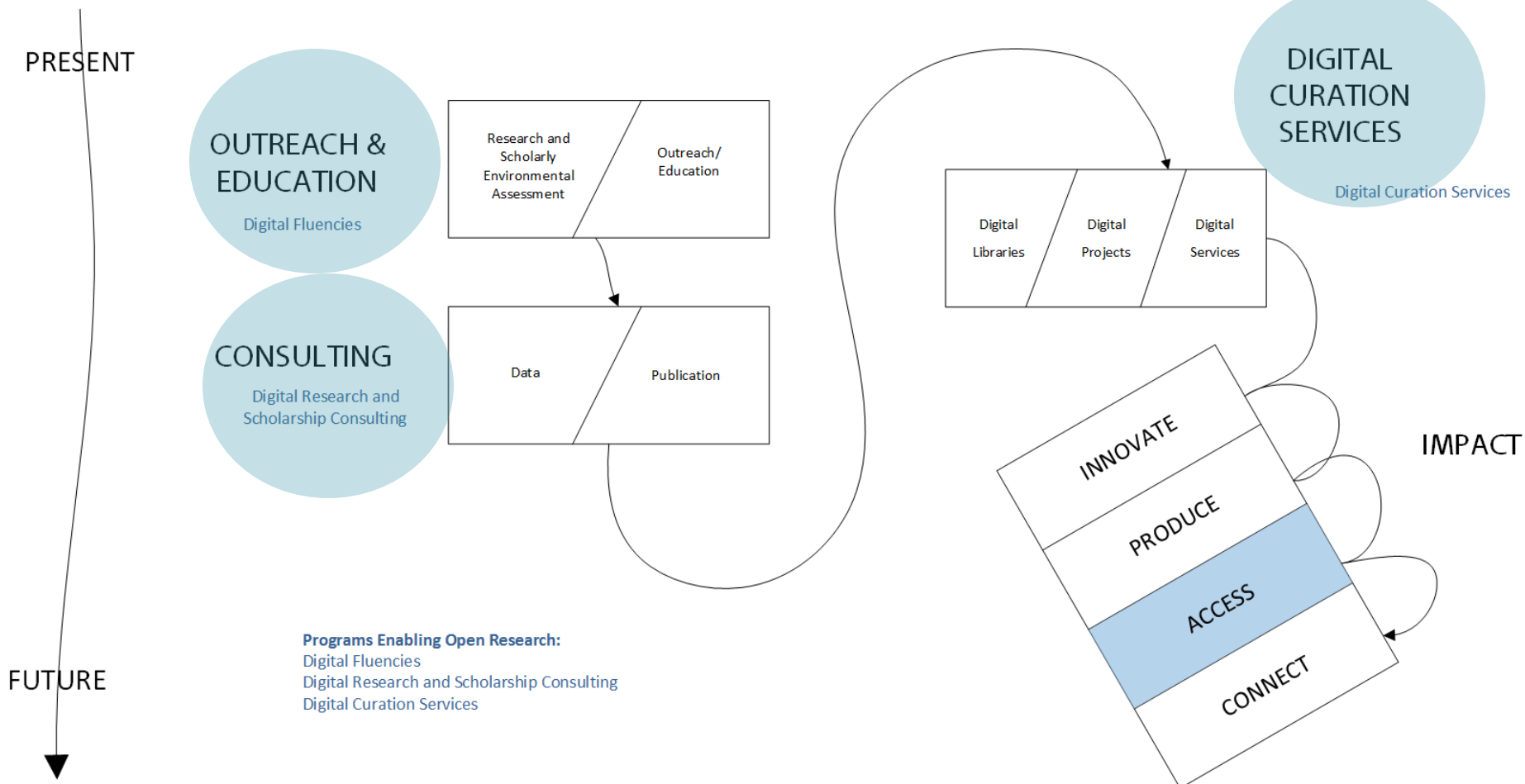
## Standards

DataCite

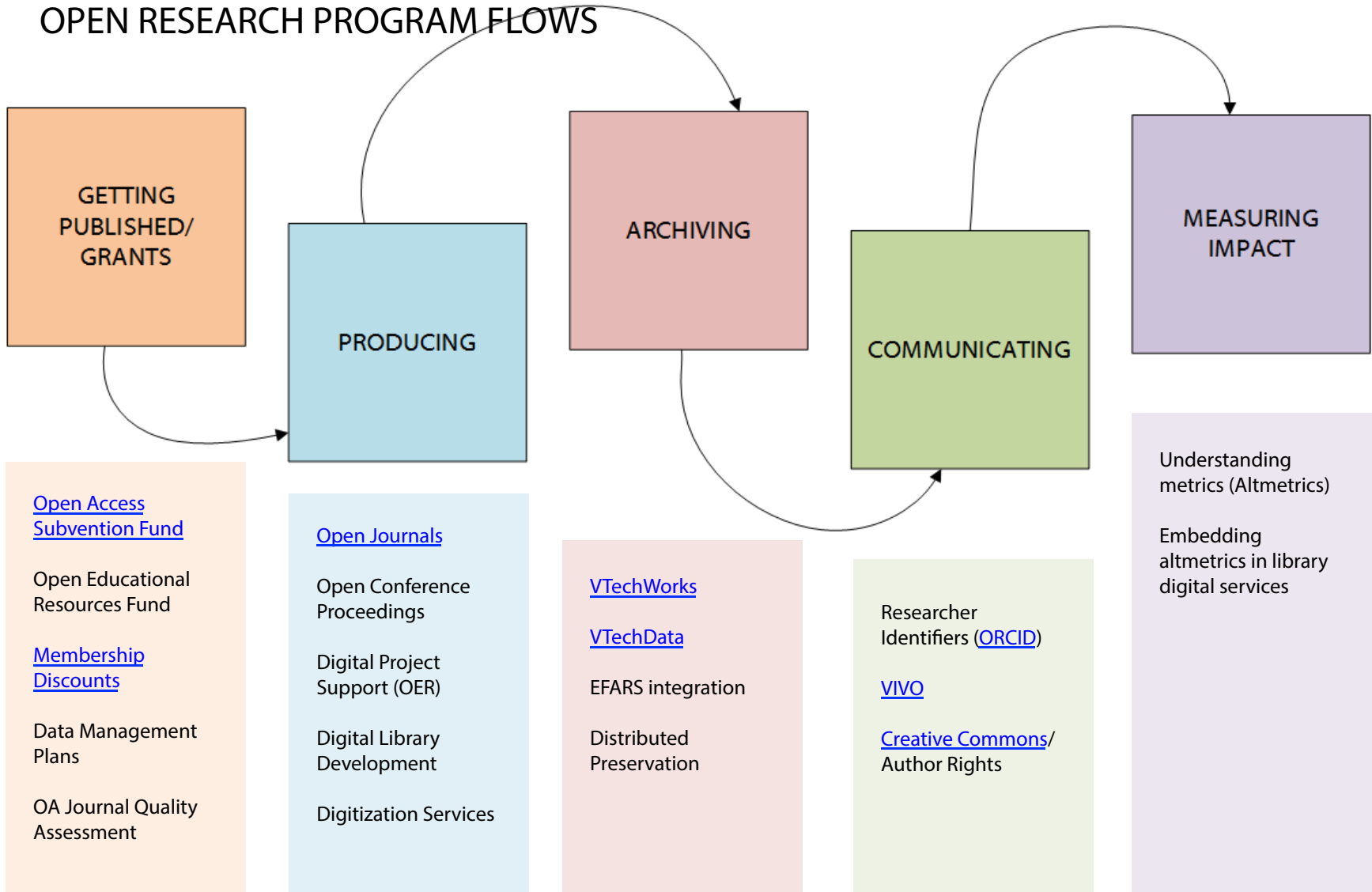
CASRAI (research admin)

CERIF (research information)

# OPEN RESEARCH SUPPORT FLOWS



# OPEN RESEARCH PROGRAM FLOWS



# Open Access at Virginia Tech

- [Open Access Guide](#) / OA Week
- [Data Management Guide](#) / Open Data Day
- [Open Educational Resources Guide](#) / OE Week
- NLI Workshops/Sessions
- [VTechWorks](#)
- [VTechData](#)
- [Publishing Services](#)
- Virginia Tech VIVO

# University Libraries

## **Programs Enabling Open Research:**

Digital Research and Scholarship Consulting

Digital Fluencies

Digital Curation Services

Digital Library Development

## **SCHOLARLY COMMUNICATION TEAM**

**Gail McMillan**, Director, Scholarly Communication

**Peter Potter**, Director, Publishing Strategy

**Philip Young**, Scholarly Communication Librarian

**Anita Walz**, Open Education, Copyright and Scholarly Communication Librarian

**Virginia (Ginny) Pannabecker**, Health, Life Science, and Scholarly Communication Librarian

**Inga Haugen**, Agriculture, Life Science, and Scholarly Communication Librarian

**Keith Gilbertson**, Technology Development Librarian

**Chase Dooley**, Digital Publishing Specialist

## **OUTREACH:**

Open Access Week

Open Education Week

Open Data Day

Fair Use Week

## **CONSULTING/EDUCATION:**

Publishing strategies

Impact metrics

Copyright and Fair Use

Creative Commons licenses

## **SERVICES:**

Open Access Subvention Fund

Open Educational Resource Development  
Fund

Journal and Conference Proceedings  
Publication

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## **Programs Enabling Open Research:**

Digital Research and Scholarship Consulting

Digital Fluencies

Digital Curation Services

Digital Library Development

## **DIGITAL RESEARCH SERVICES TEAM**

**Amanda French**, Director, Digital Research Services

**Nathan Hall**, Assistant Director, Digital Imaging and Preservation Services

**Anne Lawrence**, Repository Collections Specialist

**Melissa Lohrey**, Repository Collections Specialist

Digital Projects Coordinator (vacant)

## **OUTREACH:**

Digital Humanities/Digital Scholarship  
Projects

## **CONSULTING/EDUCATION:**

Digital Humanities

Digital Archiving

Digital Imaging

Digital Preservation

## **SERVICES:**

VTechWorks

Campus and Regional Digitization Services

Digital Preservation Services

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## **Programs Enabling Open Research:**

Digital Research and Scholarship Consulting

Digital Fluencies

Digital Curation Services

Digital Library Development

## **DATA SERVICES TEAM**

**Andi Ogier**, Associate Director, Data Services

**Natsuko Nicholls**, Research Data Consultant

**Shane Coleman**, Data Curator

**Chreston Miller**, Data and Informatics Consultant Engineering

**Ed Brooks**, Geospatial Data Consultant

Data and Informatics Consultant Sciences (vacant)

Data and Informatics Consultant Art and Design (vacant)

Informatics Project Coordinator (vacant)

## **OUTREACH:**

Data Management Workshops

## **CONSULTING/EDUCATION:**

Data Management

Data Curation

Data Publishing

## **SERVICES:**

VTechData

Data Management

VIVO



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## **Programs Enabling Open Research:**

Digital Research and Scholarship Consulting

Digital Fluencies

Digital Curation Services

Digital Library Development

## **DIGITAL LIBRARY DEVELOPMENT TEAM**

**Zhiwu Xie**, Technology Development Librarian and Team Lead

**Yinlin Chen**, Software Engineer

**Collin Brittle**, Software Engineer

**Tingting Jiang**, Software Engineer

**Paul Mather**, Systems Engineer

**Kimberli Weeks**, Technical Director

Software Engineer (vacant)

## **CONSULTING/EDUCATION:**

Repository-enabled Ideation

Big Data Infrastructure

Cloud Computing

## **SERVICES:**

Digital Curation Infrastructure

Development

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