Open Access and Data Management

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ASEE Engineering Research Council Annual Conference March 7, 2017

Virginia Tech Libraries, Research and Informatics

- Offering critical new digital services in support of the creation, management, sharing, and preservation of digital data and scholarship
 - Data Management and Sharing
 - Data Education
 - Digital Library Development
 - Technology Development
 - Open Access Publishing
 - Open Education
 - Digital Imaging
 - Digital Scholarship Projects
 - Digital Preservation

Data Management & Sharing

- Data Services (9 FTE) and Digital Library Development (6 FTE) Teams
- Preparing a data management plan
- Archiving and publishing datasets in VTechData
- Developing data infrastructure
- Offering data education opportunities
- Supporting discipline-focused data and informatics projects
 - Sustainable software development
 - Data modeling, manipulation, visualization, and analytics
 - Preparing data for repository deposit
 - Transforming data for reuse

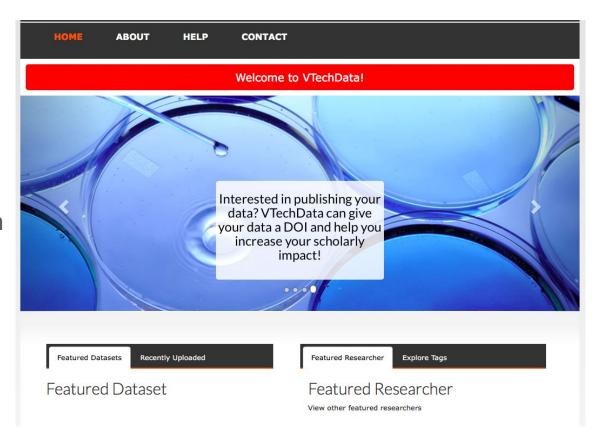
Preparing a Data Management Plan





Archiving, Sharing, and Citing Data

- Practicing data sharing
 - re3data.org
 - VTechData
 - Publishing data papers
- Understanding the benefits of sharing
- Guidance on data citation



https://data.lib.vt.edu

Developing Data Infrastructure

- Advanced Research Computing's archival storage environment
- Library Cyberinfrastructure project (PI: Zhiwu Xie)
 - \$308, National Leadership Grant, IMLS LG-71-16-0037
 - Virginia Tech (Libraries, Computer Science, Mechanical Engineering)
 - o Goals: developing a data infrastructure strategy that supports big data sharing and reuse
 - ARL/AAU/APLU SHARE open dataset of research release events
 - Digital Library Research Laboratory's Event Digital Library and Archive
 - Smart Infrastructure Laboratory's Goodwin Hall project
- VT Github project
- Geoblacklight implementation
- Open Science Framework

Programs & Community Development - Data

- Big data and data management workshops
- Course-embedded data skills instructional sessions
- Credit-bearing data courses
- Curriculum design and planning



Thursday, January 12, 2017 from 9 a.m. - 4:30 p.m.

Newman Library Multipurpose Room

RSVP: goo.gl/rNwpum

Tags: Big Data, Reproducible Research

In an era of Big Data, reproducible research and efficient workflows become vitally important to the research process. How do researchers handle large datasets? What skills do graduate students need to become big data analysts? Join the University Libraries and Advanced Research Computing at Virginia Tech, and the Center for Open Science on January 12, 2017 for a workshop and discussion on Big Data and Data Science.

Categories

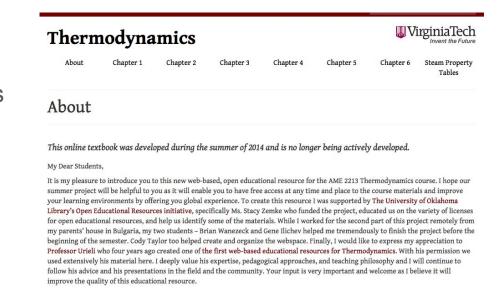
- Data Curation Projects
- Data Services
- Scholarly
- Communication
- Technology Development

Open Access (OA) & Publishing

- Scholarly Communication (7 FTE) and Publishing (3 FTE) Teams
- Supporting collaborative writing and OA publishing
- Archiving and publishing works of scholarship in VTechWorks
- Offering scholarly publishing programs
- Supporting publishing and digital humanities projects
 - Developing new Open Educational Resources
 - Developing new digital collections
 - Preparing materials for repository deposit
 - Preserving web archives

Supporting Collaborative Writing & OA Publishing

- Overleaf trial
 - Journal and OA repository templates
 - Exploring custom ETD template
- OA Journals, Proceedings, Books
- Open Access Subvention Fund
 - \$86,000 awarded FY 2015/16
 - 63 articles supported
 - 172 unique VT authors
- ARL/AAU/AAUP Open Access
 Monograph Publishing Initiative
- Open Educational Resources
 Faculty Grant Program



http://opentext.lib.vt.edu/thermodynamics/

Archiving and Publishing in VTechWorks

- Practicing Green OA Publishing in VTechWorks
 - Nearly 60,000 items
 - 5 million record views FY1516
 - 9 million file downloads FY1516
 - Integration with Elements-based
 Faculty Activity Reporting System
 - +1000 deposits since fall 2016
- Guidance on OA publishing and related issues
- Understanding the benefits of sharing



VTechWorks

VTechWorks publicizes and preserves the scholarly work of Virginia Tech faculty, students, and staff: journal articles, books, theses, dissertations, conference papers, slide presentations, technical reports, working papers, administrative documents, videos, images, and more. Write vtechworks@vt.edu to get help adding your content to VTechWorks or visit the Open@VT blog to learn about current VTechWorks activities.

Want to publish a standalone dataset? Visit VTechData.

NEWS: Faculty can now deposit items to VTechWorks from the Electronic Faculty Activity Reporting System (EFARS). Visit the Provost's **EFARS** page to learn more and to log in to EFARS.

Want to see historical data on VTechWorks usage and content? See our spreadsheet of VTechWorks Stats.

Communities in VTechWorks

Biocomplexity Institute of Virginia Tech [186]

College of Agriculture and Life Sciences (CALS) [4408]

College of Architecture and Urban Studies (CAUS) [282]

College of Engineering (COE) [2469]

College of Liberal Arts and Human Sciences (CLAHS) [210]

https://vtechworks.lib.vt.edu

Programs & Community Development - Scholarship

- Workshops on Open Access, copyrights, fair use, open education, publishing, altmetrics, researcher identifiers, and researcher profile systems
- Course-embedded scholarly communication skills instructional sessions

Open Access Week 2016

October 24th - 30th

Click on the titles below to learn more about each scheduled event.

Ubiquity Press: A Platform for Open Publishing

Monday, October 24, 10:00 A.M.-11:15 A.M., Newman 207A

For the Public Good: Research Impact and the Promise of Open Access (Forum)

Monday, October 24, 6:30 P.M.-8:00 P.M., Torgersen 1100

Where Can I Post My Publications? VTechWorks, ResearchGate, and other options

Tuesday, October 25, 12:30 P.M.-1:30 P.M., Torgersen 1100

Publishing Services at Virginia Tech

Wednesday, October 26, 11:30 A.M.-12:30 P.M., Newman 426

Access to Research in South Africa

Wednesday, October 26, 2:30 P.M.-3:30 P.M., Library Multipurpose Room

Scholarly Publishing Trends: A Conversation

Thursday, October 27, 12:30 P.M.-1:30 P.M., Torgersen 3080

\$100,000 Available to Publish Journal Articles

Friday, October 28, 2:30 P.M.-3:30 P.M., Newman 426

http://www.lib.vt.edu/openaccess/

Digital Preservation Services

- Web archiving ArchivelT
- Digital preservation communities
 - MetaArchive
 - Academic Preservation Trust
 - Digital Preservation Network

