

# The Center for Research Data and Digital Scholarship at the University of Colorado Boulder

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Center for Research Data & Digital Scholarship

# Outline

- The partnership behind the center
- Our organization
- Our infrastructure
- Our support
- Deeper dive
  - Digital Humanities Graduate Certificate
  - Data management
- Future plans



Interdisciplinary data-intensive research  
+ Collaboration

= CU Center for Research Data and  
Digital Scholarship (CRDDS)

[colorado.edu/crdds/](https://colorado.edu/crdds/)

Partnership between Libraries and Research Computing  
Research center application and approval (2016)



# Our mission

- Support of data-intensive research
  - Infrastructure
  - Data management
  - Training
  - Education
  - Consulting
  - Proposals
  - Partnerships



CRDDS team (2018)



# Benefits of collaboration in Center

- Broad reach across campus
- Expertise across the disciplinary spectrum
- Greater than the sum of our parts
- Examples
  - Interdisciplinary data consult hours
  - Publishing of large data sets (multiple TB)
  - Support of graduate course in computational literary analysis in English



# Center achievements

- Center space (Norlin E206) (2017)
- Digital Humanities Graduate Certificate launch (2017)
- NSF CC\* Cyberteam award (2017)
- Interdisciplinary training (2017)
- Interdisciplinary data consult hours (2018)
- NSF CC\* Hybrid Cloud award (2019)

Norlin E206



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# Our leadership

- Executive Directors

- Approve annual budget and resource allocation
- Approve annual center plan
- Advocate for the center with campus leadership and external partners
- Liaise with Executive Board
- Grants

- Initiative Directors

- Lead and manage initiative activities
- Manage initiative budget and resource allocation
- Prioritize projects
- Develop and implement initiative strategic plans



Thea Lindquist,  
Libraries



Thomas Hauser,  
Research Computing



Jonathon Anderson,  
Cyberinfrastructure



Nickoal Eichmann-  
Kalwara, Digital  
Scholarship



Andrew Johnson,  
Research Data  
Management



Shelley Knuth,  
Education and  
Training





# Our governance structure

- Executive Board
  - CIO, Dean of the Libraries, Associate Deans for Research
  - Approve new initiatives and discontinuation of initiatives
  - Approve changes to governance structure and by-laws
  - Recommend strategic directions
  - Advocate for the Center
- Advisory Board
  - Faculty members, students, postdocs
  - Bring diverse perspectives into the work of the Center
  - Raise awareness of Center activities and goals
  - Serve as ambassadors and advocates for the Center



# Campus partnerships

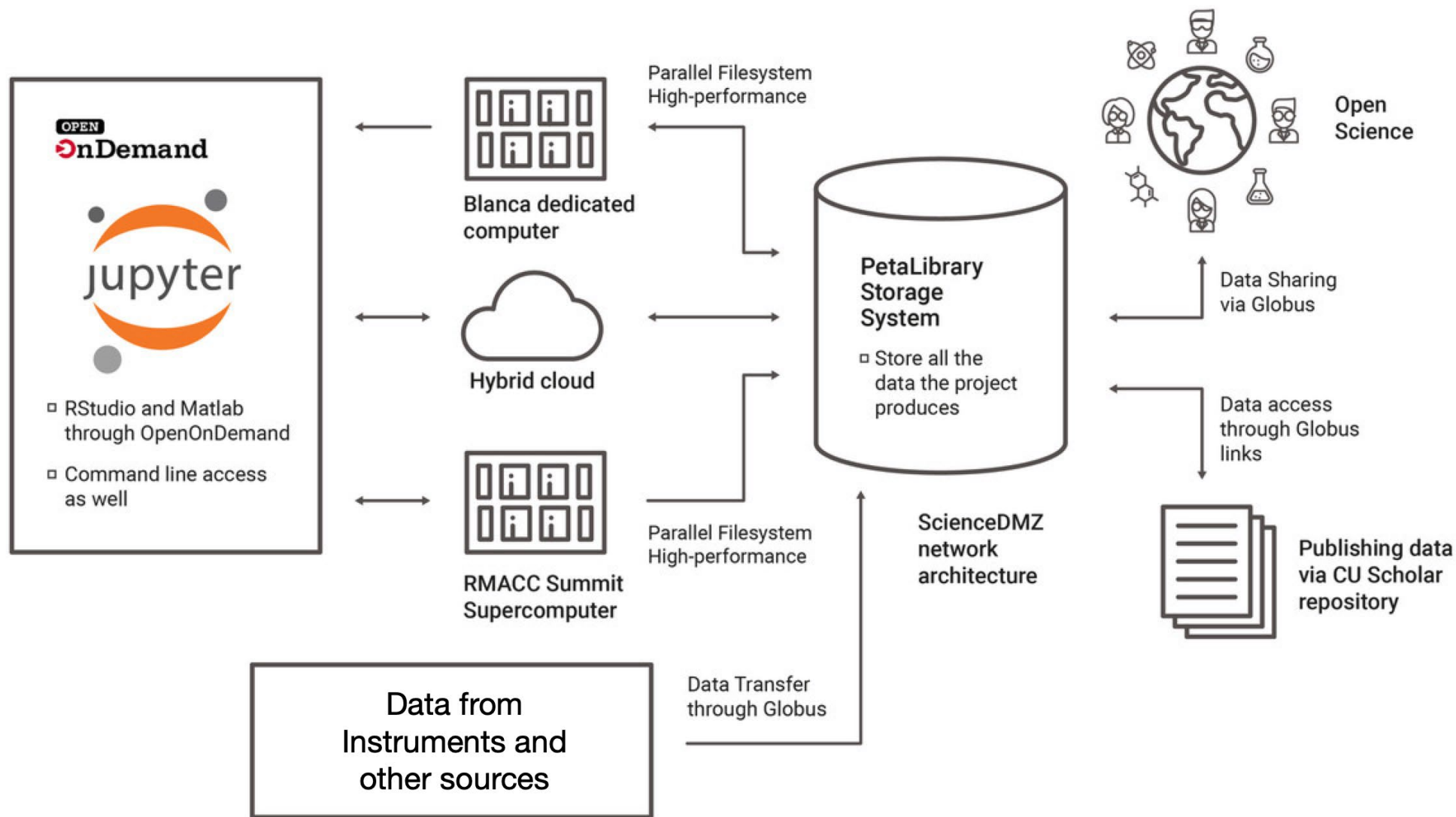
- Laboratory for Statistical Analysis (LISA)
- Center for Teaching and Learning
- Exploring Digital Humanities speaker series
- Digital Scholarship on the Front Range
- Research and Innovation Office
- Earth Lab
- Center to Advance Research and Teaching in the Social Sciences (CARTSS)



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# Training and consulting

- 1000+ attendees last year at trainings and other events
- ~500 consults at data consult hours and by appointment
  - Coding
  - Data analysis, visualization, and management
  - Research computing
  - Digital Humanities
  - Statistics

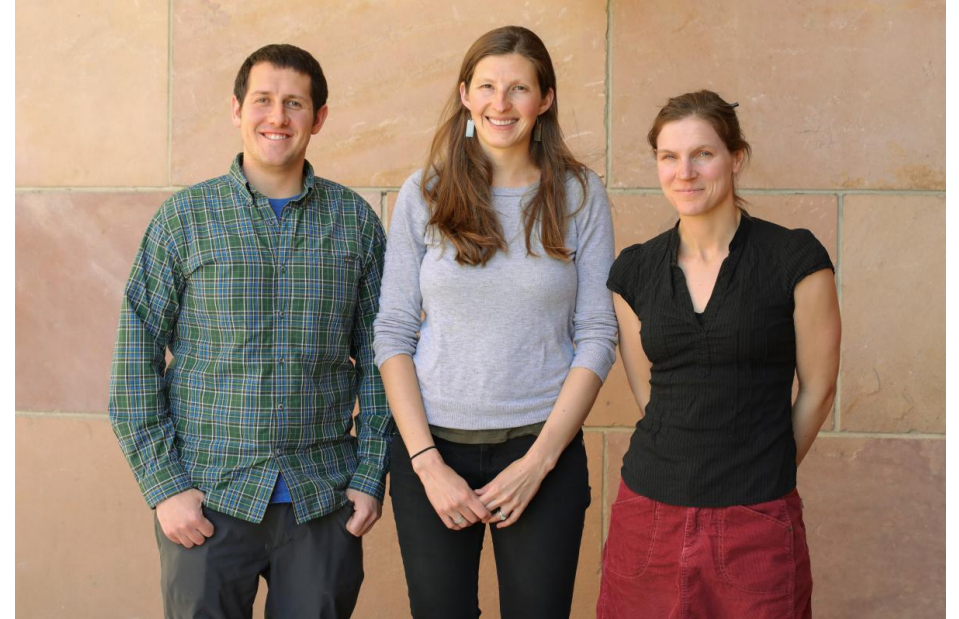


Training in Norlin E206



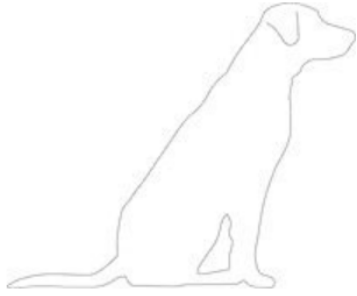
# Events and community building

- Speakers and symposia
- Informal talks and seminars
- Student data visualization contest
- Community mixers
  - Research and Innovation Seed Grant mixer
  - Municipal data mixer



Data visualization contest winners (2018)





# WHAT IS A FEMINIST LAB?

[home](#)

[schedule and abstracts](#)

[speakers and organizers](#)

[locations](#)

[documentation](#)

[sponsors and supporters](#)

## home

The “What Is a Feminist Lab?” Symposium will take place at the University of Colorado Boulder in [Norlin Library N410](#) on April 17-18, 2019. Co-organized by [Maya Livio](#), [Lori Emerson](#), and [Thea Lindquist](#), the event will examine the recent proliferation of labs, surveying the lab landscape and exploring ways in which intersectional feminist approaches can be integrated into labs and the work they do. “What is a Feminist Lab?” will also bring lab leaders and collaborators from across the U.S. and Canada into dialogue with representatives from many of the university’s interdisciplinary labs.

[whatisafeministlab.online](http://whatisafeministlab.online)





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# Digital Humanities graduate certificate

- Launched in Fall 2018
- Administrative home in Center as discipline-neutral space
  - Lindquist certificate director
- 9 credits + optional 1-3 credit capstone
- Ranked in top half of graduate certificates campus wide its first year
- More info: [colorado.edu/crdds/dhgc](https://colorado.edu/crdds/dhgc)



# Certificate coursework

- Core course DHUM 5000: Introduction to Digital Humanities
  - Taught by Eichmann-Kalwara
- Proposal for low-barrier graduate GIS course
  - Taught by our CLIR Postdoc in Geospatial Data Services
- Working on stackable 1-credit course options in collaboration with CARTSS



# Data management



- Curation and DOI registration for 219 data sets in the CU Scholar institutional repository in first year
- DataCite DOI agreement with National Solar Observatory (NSO) and Laboratory for Atmospheric and Space Physics (LASP)
- CoreTrustSeal repository certification in collaboration with National Center for Atmospheric Research (NCAR)
- Data Publishing of large data sets
  - Metadata in CU Scholar linked through Globus to data sets on PetaLibrary
- Support of very large proposals



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# Grants and initiatives

- NSF CC\* Cyber Team: Creating a Community of Regional Data and Workflow Cyberinfrastructure Facilitators, \$1,497,820
- NSF Hybrid Cloud award “CC\* Compute: A Hybrid Cloud Environment for the Rocky Mountain Advanced Computing Consortium”, \$399,532 + \$100,000 in cloud credits
- Research Data Lake project
- IMLS Interdisciplinary Data Curation grant proposal
- ARL Digital Scholarship Institute advisory group proposal
- HathiTrust Research Center spring workshop proposal



# Future Plans

- Center renewal in 2020-2021
- Support for science gateways and portals
- Support for campus data science initiatives
- Long-term data preservation for large (several TB) data sets
- Research data governance
- Micro-credentials for our trainings
- New interdisciplinary data-focused credit courses



# Questions?



Norlin Library





# Opportunity in the CU Boulder Libraries

- Assistant Dean of Digital Strategy & Information Technology Services
  - <https://www.colorado.edu/libraries/jobs-opportunities/assistant-dean-digital-strategy-information-technology-services>
  - Open until Jan. 5<sup>th</sup>

