



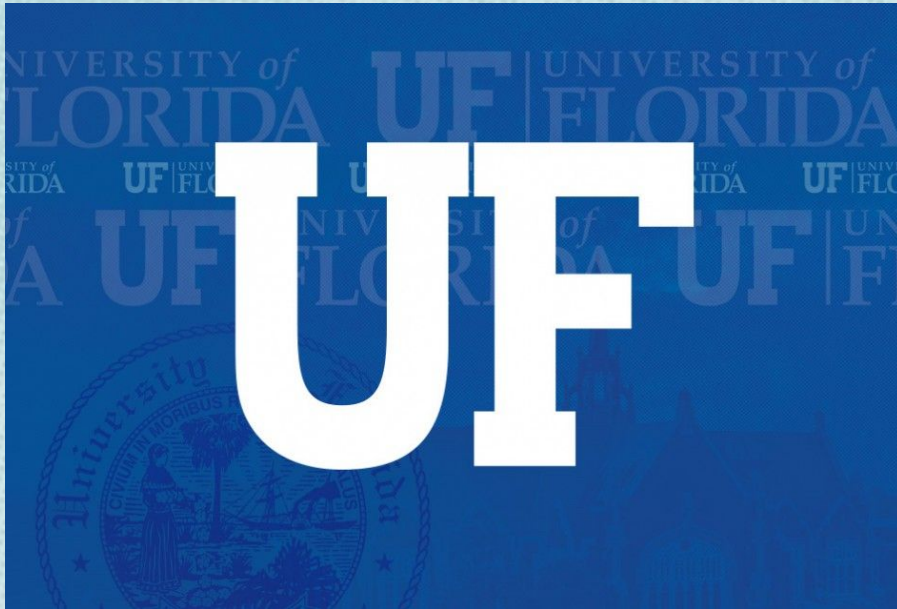
UF

Data Management and the Role of Librarians

GL20 – Twentieth International
Conference on Grey Literature

Plato Smith and Sara Gonzalez
December 3, 2018
Loyola University
New Orleans, Louisiana USA

University of Florida



- Established 1853
- Carnegie classification - R1: Doctoral Universities – Highest Research Activity
- Public land grant, sea-grant, and space grant university on 2,000 acre campus
- 50,000+ students; 4,000+ faculty
- Located in Gainesville, Florida
- State University System of Florida

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Socio-technical data management collaborations

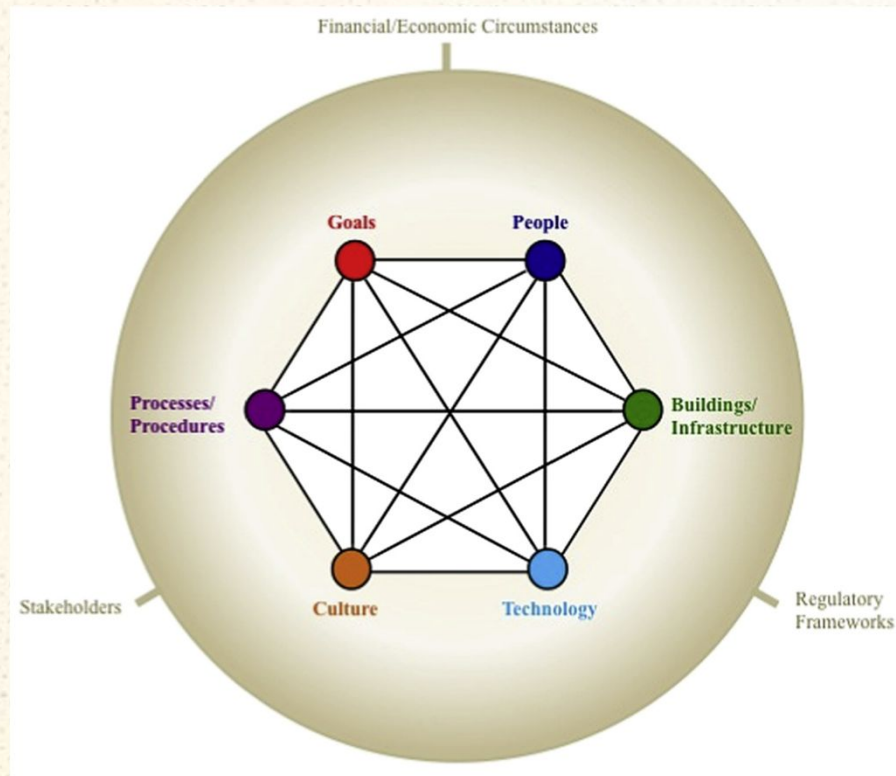


Fig. 1 – Social-technical system framework (Davis et al., 2014)

- UF Marston Science Library
- UF Office of Research
- UF Informatics Institute (UFII)
- UF Research Computing
- UF College of Engineering
- UF Institute of Food and Agricultural Sciences (UF/IFAS)
- UF Clinical and Translational Science Institute (UF/CTSI)
- Data Sharing Policies
 - *NIH data sharing comments*
 - *Cooperative agreements*
 - *PLOS Governing Board sensitive data*

Data Management and Curation Working Group

- 2012 – 2016 Task Force
 - 2016 – Present Working Group
 - 52 subscribers
 - Composed of Chairs, faculty, staff, IT
 - Meets every 4th Monday in Marston Science Library
 - Contributes to development of campus initiatives (e.g., ORCID, research grants, training)
 - Partners with The Carpentries @ UF, DSI, ARCS, and others
- ✓ Several general data management training workshops
 - ✓ Average attendance 12
 - ✓ Several discipline-specific training workshops
 - ✓ DMP support – \$6.2 m
 - ✓ 1st Annual Data Symposium (3/19/18)
 - ✓ Two sub awards (UF/IFAS)
 - ✓ Lead on UFDMAC (NIEHS)

The Carpentries @ UF

(<https://www.uf-carpentries.org/>)

Carpentries @ UF

- Established 2016
- Carpentry premium member
- Developed UF Carpentries Club and Board in 2017
- Extended collaborations with UFII, UFBI, UF Marston Science Library, iDigbio, UF Florida Museum of Natural History (FLMNH), Wildlife Ecology, and the White Lab

2018 Workshops and Other Events (total of 18 thru 10/24/2018)

- R for Geospatial Data
- One Day R Workshop
- Research Bazaar
- Data Carpentry (R)
- Software Carpentry (Python)
- Data Carpentry Workshops
- Data Carpentry – 1st Annual Data Symposium
- Instructor Training
- Software Carpentry
- Multi-Week Data Carpentry

The Carpentries @ UF

[Home](#) / **Stats**

Organizers of Software and Data
Carpentry workshops at the University
of Florida

Email

Twitter

Github

Mailing List

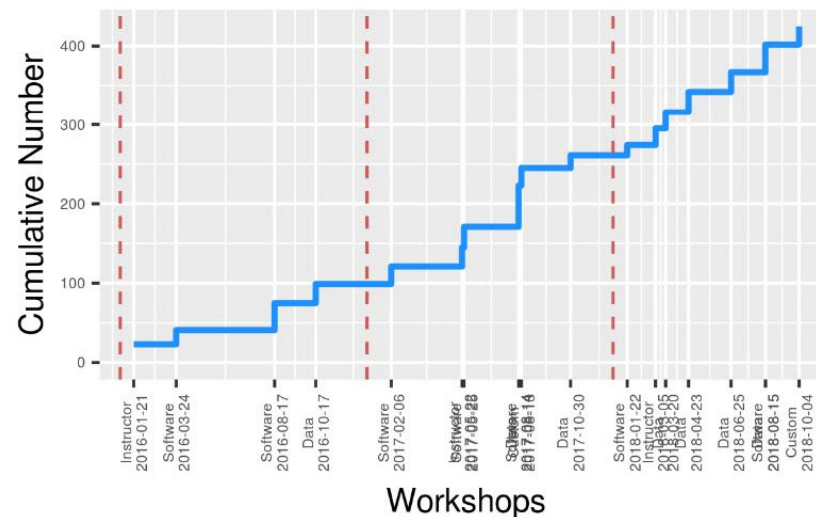
Next Event

[More events...](#)

Stats

Cumulative Participants Over Time

As of 2018-10-08



Cumulative participants over all workshops. Beginning of years are marked with vertical lines.

Fig. 2 – UF Carpentries Club Stats (<https://www.uf-carpentries.org/stats/>)

UF Data Science and Informatics (DSI)

UF DSI Focus for 2018

- ❑ “Learning and teaching as fast as we can;”
- ❑ “Creating a data science community” – DSI President
- UF DSI is a recognized UF undergraduate student organization
 - <http://www.dsiufl.org/>

Developing new workshops

- ✓ Use **Jupyter notebooks** and the anaconda distribution
- ✓ Use **R Studio** for **R workshops**
- ✓ Use **MySQL** for **SQL workshops**
- ✓ Funded by UFII; collaborating with UF Libraries for a data science competition (spring 2019)
- ✓ UFII fellows and students attend or help at workshops
- ✓ Collecting DSI data for analysis for use by the Carpentries @ UF
- ❖ Designing pathways a challenge

Academic Research Consulting & Services (ARCS)

- Data Management
- Publishing and Archiving
- Research Metrics
- Spatial Information Services
- Statistical and Data Analysis
- Visualization (2D, 3d, Virtual/Augmented Reality)
- Bioinformatics Librarian
- Data Management Librarian
- Informatics Librarian
- Geospatial Librarian
- Physical Sciences Librarian
- Political Science Librarian
- University Librarian

UF ARCS

UF/IFAS USDA-NIFA funded collaborative research projects resulting in subawards to UF Libraries:

- 1. SmartPath -- Grower-directed convergence of nanotechnology and smart decision analytics for irrigation water quality management related to pathogens (subaward cash: \$57,439)**
- 2. FACETS -- Floridan Aquifer Collaborative Engagement for Sustainability (subaward cash: \$10,376)**
- 3. Recovery and Resilience of Oyster Reefs in the Big Bend of Florida (subaward cash to Libraries: \$73,673)**

Acknowledgements

- Matthew Collins, Technical Operations Manager, UF Advanced Computing and Information Systems Lab, ECE
- Tyler Richards, President of UF Data Science and Informatics

References

- ARCS. (2018). Academic Research Consulting & Services.
<http://arcs.uflib.ufl.edu/>
- Davis, M. C., Challenger, R., Jayewardene, D. N. W., & Clegg, C. W. (2014). Advancing socio-technical systems thinking: A call for bravery. *Applied Ergonomics*, 45(2 Part A), 171–180.
<https://doi.org/10.1016/j.apergo.2013.02.009>
- UF Carpentries Club. (2018). <https://www.uf-carpentries.org/>;
<https://github.com/UF-Carpentry>
- UF DSI. (2018). UF Data Science and Informatics
<http://www.dsiufl.org/>
- UF Research Computing. (2018). <https://www.rc.ufl.edu/>