

STARS

University of Central Florida
STARS

Scholarly Communication Brown Bag Series

Scholarly Communication

6-16-2021

Stay Savvy with Scholarly Communication: Intro to Data Carpentries

Sandy Avila

Lee Dotson

Find similar works at: <https://stars.library.ucf.edu/scholcom-brownbag>

University of Central Florida Libraries <http://library.ucf.edu>



STARS
Showcase of Text, Archives, Research & Scholarship

Intro to Data Carpentries



Lee Dotson

Interim Dept. Head

Technology Solutions & Digital Initiatives

Sandy Avila

Science Librarian

UCF Libraries

Stay Savvy with Scholarly Communication

June 16, 2021



Outline

- Our Grassroots Research Data Management Team
 - ◆ Who We Are
 - ◆ What We are Doing
 - ◆ External Partners

- An Introduction to The Carpentries
 - ◆ What is The Carpentries
 - ◆ The Carpentries @ UCF
 - ◆ Housekeeping for Next Week

- Q&A

Current Foundations of Data Management Library Team

Sandy Avila
Science Librarian
savila@ucf.edu

Ven Basco
Engineering & Computer Science
Librarian
buenaventura.basco@ucf.edu

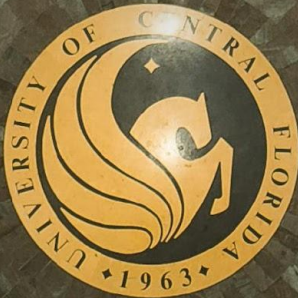
Corinne Bishop
Social Sciences & Graduate
Engagement Librarian
corinne.bishop@ucf.edu

Lee Dotson
Interim Department Head /
Technology Solutions & Digital
Initiatives
lee.dotson@ucf.edu

Rich Gause
Government Information
Librarian
richg@ucf.edu

Missy Murphey
Social Sciences & Patent and
Trademarks Librarian
rebecca.murphey@ucf.edu

Sarah A. Norris
Scholarly Communication Librarian
sarah.norris@ucf.edu




Research Data Management Team Expertise

- Data Sources
- Copyright
- Citations
- Data Management Planning
- Research Data Repositories



Background

- Science & Engineering Librarians interest & engagement with Data Services through attending conferences which led to the formation of broader group
- Digital Initiatives & Engineering Librarian - Office of Research - NSF workshops on Literature Reviews and DMPTool conducted for over 10 years
- Graduate Workshops / Pathways to Success through Office of Grad Studies
- Office of Scholarly Communication - Stay Savvy with Scholarly Communication / professional development on data topics (since 2015)
- Research Data Management Librarian Academy: RDMLA- <https://rdmla.github.io/>



STEAM Bootcamp Working Group & Campus Partners

UCF Libraries STEAM Working Group:

- Subject Liaisons
- Scholarly Communication Librarian
- Digital Initiatives Librarian

Campus Partners:

- College of Graduate Studies
- College of Sciences
- Graduate Research & Information Technology (GRIT)

Pilot Workshop Series Overview

- Four workshops over two semesters
- Fall 2019
 - ◆ Planning Your Literature Review
 - ◆ Flex Your Data Management Muscles
- Spring 2020 - **Cancelled due to COVID-19**
 - ◆ Data Visualization Tools, Data Sources & Data Clean-Up
 - ◆ Maximizing the Impact of your Data: Citation Metrics & Online Research Profiles





Current Workshop Series

Foundations of Data Management

Spring 2021

- ◆ Finding Data Sources
- ◆ Managing Your Data
- ◆ Maximizing the Impact of Your Data

Where Workshops are Advertised

UCF Research Cyberinfrastructure (RCI)

[Home](#)[Software](#)[Workshops ▾](#)[Collaboration](#)[News & Updates](#)[Contact Us](#)[Home](#) > [2021 Workshops](#)

2021 Workshops

Research Computing and Data Workshops Series

In 2021, we are pleased to bring to the UCF Research community a series of workshops on scientific computing and research data management. These workshops are being jointly presented by [UCF Library](#), [UCF Graduate and Research IT](#), and UCF Advanced Research Computing Center ([ARCC](#)). Please check back for new/updated information.

Please note that at this time the workshops are only being offered to faculty, post-docs and students who are actively engaged in research as we have limited capacity due to the hands-on nature of the sessions. If you are interested in a session that had reached capacity, please email us and we will try to schedule a repeat of it. If you would like a separate session for your research team, please [email us](#) and we may be able to have a separate session for your research group.

[Subscribe to Updates](#)

Find Workshops

[Research Computing and Data Workshops Series](#)[University of Florida Research Computing Events](#)[XSEDE Webinar Series](#)[Best Practices for HPC Software Developers \(Webinars\)](#)[Microsoft Research Webinars](#)**UCF**

Subscribe to Updates

filter by: Past

FEBRUARY 10, 2021 | 4:00 PM-5:00 PM

Foundations of Data Management: Finding Data Sources

Location

Online Session, please see registration link for details.

Description

Data and statistics play an important role in conducting research, yet understanding how to find, analyze, and manage these can be complicated. If you are interested in developing data skills, this workshop will provide introductory information to aid you on your path to being a data expert. The workshop will introduce the basic concepts of data, its importance in research, and how to find quality data in different disciplines. Subject resources in select areas such as science, engineering, social science, government, and humanities will be covered in this session.

Presenters



Sarah Norris



Ven Basco



Sandy Avila



Corinne Bishop



Rich Gause



Missy Murphey

Feedback





Workshop Series 2.0 & Future Plans

- Foundations of Data Management - Fall 2021
 - ◆ Finding Data Sources
 - ◆ Managing Your Data
 - ◆ Maximizing the Impact of Your Data
- Data Carpentries Workshops - Fall 2021/Spring 2022
- Data Visualization & Tools - Spring 2022 ?

Introduction to The Carpentries

<https://carpentries.org/>



We teach foundational coding and data science skills to researchers worldwide.





What we do

The Carpentries teaches foundational coding and data science skills to researchers worldwide. Software Carpentry, Data Carpentry, and Library Carpentry workshops are based on our lessons. Workshop hosts, Instructors, and learners must be prepared to follow our [Code of Conduct](#).

[More >](#)



Who we are

Our diverse, global community includes [Instructors](#), helpers, [Trainers](#), [Maintainers](#), [Mentors](#), community champions, [member organisations](#), supporters, workshop organisers, [staff](#) and a whole lot [more](#).

[More >](#)



Get involved

See all the [ways you can engage](#) with The Carpentries. Get information about upcoming events such as workshops, meetups, and discussions from our [community calendar](#), or from our twice-monthly [newsletter](#), *Carpentry Clippings*. Follow us on [Twitter](#), [Facebook](#), and [Slack](#).

[More >](#)

Subscribe to our Newsletter "Carpentry Clippings"

Events, Community Updates, Teaching Tips, in your inbox, twice a month

[Subscribe!](#)

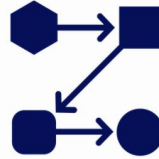
The Nine Core Values of The Carpentries

Act Openly



Created by Dany Free Design
from Noun Project

Always Learning



Created by Bold Yellow
from Noun Project

Access for All



Empower Everyone



Inclusive of All



Community Collaboration



Value All Contributions



Created by hafadin
from Noun Project

People First



Strength Through Diversity



Created by Cara Foster
from Noun Project

The Carpentries Instructors

- Take the Instructor Training Course
 - ◆ Two full days
 - ◆ Covers the basics of educational psychology, instructional design, and how to apply both to teaching workshops for The Carpentries

- Complete the Checkout Process
 - ◆ Complete three short tasks after the course in order to complete certification

- Our Experiences

The Carpentries @ UCF

GRIT

Fahad Khan



- Carpentries-Style: Introduction to bash shell scripting/Linux basics (hands-on)
- Carpentries Programming and Plotting with Python
- Carpentries: R for Scientific Analysis

Libraries

Lee Dotson



& Sandy Avila



- Certified Instructors since April 2021
- Data Organization in Spreadsheets for Social Scientists
- Coming soon - Additional workshops



DATA CARPENTRY

BUILDING COMMUNITIES TEACHING UNIVERSAL DATA LITERACY

Lessons

We facilitate and develop lessons for Data Carpentry workshops. These lessons are distributed under the [CC-BY](#) license and are free for re-use or adaptation, with attribution. We've had people use the lessons in courses, to build new lessons, or use them for self-guided learning.

Data Carpentry workshops are domain-specific, so that we are teaching researchers the skills most relevant to their domain and using examples from their type of work. Therefore we have several types of workshops and curriculum is organized by domain.

[Curriculum Advisors](#) are part of a team that provides the oversight, vision, and leadership for a particular set of lessons. More information about the role of the Curriculum Advisory Committee can be found in the [Carpentries Handbook](#).

Curriculum materials

- [Ecology curriculum](#)
- [Genomics curriculum](#)
- [Social Sciences curriculum](#)
- [Geospatial data curriculum](#)

Social Science Curriculum: Data Organization in Spreadsheets for Social Scientists

Lesson Site

Social Science Workshop Overview



Data Organization in Spreadsheets for Social Scientists



Data Cleaning with OpenRefine for Social Scientists



Data Analysis and Visualization with R for Social Scientists



Schedule

	Setup	Download files required for the lesson
00:00	1. Introduction	What are basic principles for using spreadsheets for good data organization?
00:18	2. Formatting Data Tables in Spreadsheets	What are some common challenges with formatting data in spreadsheets and how can we avoid them?
00:48	3. Formatting Problems	What are some common challenges with formatting data in spreadsheets and how can we avoid them?
01:08	4. Dates as Data	What are good approaches for handling dates in spreadsheets?
01:28	5. Quality Assurance	How can we carry out basic quality assurance in spreadsheets?
01:53	6. Exporting Data	How can we export data from spreadsheets in a way that is useful for downstream applications?
02:08	Finish	



UCF

Getting Ready for Next Week

Post its =



Excel

Download files

Etherpad at this site:

[https://etherpad.wikimedia.org/p/Stay Savvy Data Organization in Spreadsheets](https://etherpad.wikimedia.org/p/Stay_Savvy_Data_Organization_in_Spreadsheets)

Thank you! Any questions?

Sandy Avila
Science Librarian
savila@ucf.edu

Lee Dotson
Interim Dept. Head
Technology Solutions & Digital Initiatives
lee.dotson@ucf.edu

