**The Data ‘Shop**

*Data Science Crash Course for Librarians*

Computer programming and data analysis experience is not required. Participants should be comfortable using Microsoft Office applications, Google applications (e.g., Drive, Spreadsheets, Docs), and be familiar with PC or Mac environments.

# **AGENDA**

**DAY 1: INTRODUCTION TO RESEARCH DATA MANAGEMENT**

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| 09:00 | [Getting Started - Git](https://pow123.github.io/UWI-Mona/00-before-we-start.html) | About the instructor, the schedule, flags, checking installations, and starting with Git. |
| 09:30 | [Developing the Research Question](https://pow123.github.io/UWI-Mona/01-research-question.html) | What questions can we ask of data? |
| 10:30 | Break |  |
| 10:45 | [Data Fundamentals](https://pow123.github.io/UWI-Mona/02-starting-with-data.html) | Data description, sharing, and reuse, including copyright and data publishing. |
| 12:00 | Lunch Break |  |
| 1:00 | [Working with Data in OpenRefine](https://pow123.github.io/UWI-Mona/03-working-with-data.html) | Editing and managing datasets, practicing version control |
| 3:30 | Break |  |
| 3:45 | [Data Services](https://pow123.github.io/UWI-Mona/04-data-services.html) | Discussing RDM with faculty, current UTA projects, etc. |
| 4:30 | Closing |  |

**DAY 2: INTRODUCTION TO DATA SCIENCE**

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| 09:00 | [About Data Science](https://pow123.github.io/UWI-Mona/11-data-science.html) | The definition and examples of data science in practice |
| 9:30 | Break |  |
| 9:40 | [Data Wrangling in R](https://pow123.github.io/UWI-Mona/12-data-cleaning-analytics.html) | Restructuring and cleaning data for visualization |
| 11:20 | Break |  |
| 11:30 | [Data Visualization Best Practices](https://pow123.github.io/UWI-Mona/13-data-viz.html) | Guidelines for effective visualizations |
| 12:00 | Lunch Break |  |
| 1:00 | [Data Visualization in Tableau](https://pow123.github.io/UWI-Mona/13-data-viz.html) | Creating charts and dashboards in Tableau Public |
| 3:30 | Break |  |
| 3:45 | [Saving files - Git and GitHub](https://pow123.github.io/UWI-Mona/00-before-we-start.html) | Using Git to push files and notes in local repo to GitHub |
| 4:30 | Reflections and Closing |  |