Module 02: Scientific Computing and Reproducible Research

FCIT 607: Data, Methods, and Models for Future Cities

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Abstract

This learning module …

Module Overview

Learning Objectives

> **i** By the end of the course module, students will be able to:
>
> 1. Coming soon…
> 2. Coming soon…
> 3. Coming soon…

Module Topics

- Research Computing Setup
    - VS Code, Jupyter, Quarto, and Git (+ GitHub)
    - How and When to (Not) Use LLMs for Coding and Data Analysis Help
- Basics of Data Summary and Visualization with Python

Assigned Reading + Lecture Slides

- Scientific Computing and Reproducible Research
- Module 2 Slides

Lab

Coming soon…

Questions, Tasks, and Challenges

Coming soon…

Recommended Additional Resources

- Coming soon…

References