

Module 01: Introduction

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

John McLevey

Abstract

This learning module ...

Module Overview

Learning Objectives	1
Module Topics	1
Assigned Reading + Lecture Slides	1
Lab	2
Questions, Tasks, and Challenges	2
Recommended Additional Resources	2
References	2

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

- Personal Introductions + Learning Goals
- Teaching Modelling and Quantitative Data Analysis: What's Wrong with the Status Quo?
 - The Status Quo
 - Statistical Golems
 - Null Hypothesis Significance Testing (NHST)
 - *Bad* Controls
 - Transparency and Accountability, Reproducibility, Ethics
- We Can Do Better!
 - Statistical Problem Solving; Probabilistic, Systems, and Futures Thinking
 - Prior Knowledge; Causal Models and *Good* Controls
 - Reproducible Research and Model-based Data Analysis
- Overview of Course Topics, Learning Objectives, Assessment Methods, and Software

Assigned Reading + Lecture Slides

- [Introduction](#)
- [Module 1 Slides](#)

Lab

Coming soon...

Questions, Tasks, and Challenges

Coming soon...

Recommended Additional Resources

- Coming soon...

References