

○ OMLDS March 2020 Tutorial

✓ Part 1

Introduction

- ✓ Who am I
- ✓ Managing expectations

✓ First example

- ✓ NY Times data
- ✓ "Patient 0 over USA"

○ Part 2

Concepts

Modeling considerations

Modeling paradigms

- Other
 - ✓ System Modeler
 - ✓ MIT 50's
- Classical Equation Based Modeling (EBM)
 - Agent-based modeling
 - Cellular automata

✓ System Dynamics

✓ Basic models

✓ Multi-site extension

- ✓ SIR and SI2R
- ✓ SEI2HR
- ✓ SEI2HR-Econ
- ✓ Grid graph
- ✓ Random graph

○ Part 3

Story

Germany

✓ USA

- WirVsVirus
- ✓ NYTimes data
- ✓ Patient-0 over USA
 - ✓ Travel by air
 - ✓ Travel by ground only