

F.I.T - Data Sciences

Monday 7/6	Tuesday 7/7	Wednesday 7/8	Thursday 7/9	Friday 7/10
<i>All instructors</i> Introduction, Discussion of course objectives Current state of COVID-19 (SS)	<i>S Srirangapatnam</i> Statistics in prediction	<i>P Ustriyana</i> Public health implications of infections	<i>N Foreman</i> Medicine and health	<i>P Ustriyana</i> Earth and the human
Monday 7/13	Tuesday 7/14	Wednesday 7/15	Thursday 7/16	Friday 7/17
<i>C Wikler</i> Public policy and actions	<i>Guest speaker D Bikle</i> Breakout room session to complete programming COVID-19 predictions	Breakout room session to complete visualization and presentation	<i>Guest speaker M Stoller</i> Preparation and rehearsing for presentation	Presentation Day

Central questions:

- Current state of COVID-19
 What information does data tell us about COVID-19 and what is the current state of infection rates? What are the benefits of projecting cases and what implications does it carry?
- Statistics in prediction
 What statistical tools are available for us to better analyze the data and what are their advantages and disadvantages? Where is it appropriate to apply linear regression and when do we apply logistic regression? How do we program an established statistics model in R for use in predictions?
- Public health implications of infections
 How has COVID-19 impacted healthcare across the US and across the world? What are important parameters used to estimate the spread of the infectious disease? How can we slow down the spread of a disease?
- Medicine and health
 How does a human being get infected by a bacteria and virus? How do we treat the infections? How does one “completely” recover from an infection?
- Earth and the human
 What role does earth play in the health of a human? What are the different kinds of pollution and how does each affect us? What role has this played in COVID-19?
- Public policy and actions
 How does data mediate public policy? How does the government slow down an infection? Who are the key factors considered when taking an action against growing infection rates?