

<b>Lecture</b>	<b>Lab/Assignment</b>
Introduction and Setup	R and RStudio Set-Up
R Language Part I	
Data Queries and Manipulation	<b>A1</b>
Working with Strings and Factors	
R Language Part II	<b>A2</b>
Data Summarization and Statistics	<b>A3</b>
R Markdown	<b>A4</b>
Graphs with ggplot2 Part I	<b>A5</b>
Graphs with ggplot2 Part II	<b>A6</b>
Tables with gt	<b>A7</b>
Working with Spatial Data in R	
Maps with tmap	<b>A8</b>
Additional Map Examples	
Interactive Maps with Leaflet	<b>A9</b>
Vector-Based Spatial Analysis	<b>A10</b>
Raster-Based Spatial Analysis	<b>A11</b>
Raster-Based Spatial Analysis (terra)	<b>A12</b>
LiDAR and Image Analysis	<b>A13</b>
Machine Learning Background	
Regression and Diagnostics	<b>A14/A15</b>
Random Forests in R	<b>A16</b>
Machine Learning with caret	<b>A17/A18/A19</b>
Machine Learning with tidymodels	<b>A20</b>
Dates and Time Series Analysis	<b>A21</b>
Shiny Apps	<b>A22</b>
Wrap Up	