**Introductions**

Welcome to the Mixtape Sessions Difference-in-differences and synthetic control workshop! I hope you are excited about this workshop as much as I am excited about doing it with you. I wanted to walk you through a few housekeeping things as we prepare for it. Bear with me as this email will have some instructions.

**Basic Expectations of each day**

The workshop is 3 days long, each day lasting 8 hours. Each day will consist of the following schedule:

* 45 minutes of lecture or activities
* 15 minute break
* 1 hour lunch break

These are long days, but I try to make them fun and interesting and while frequent 15 minute breaks may seem excessive, in my experience attendees tend to under-estimate their own fatigue as the day progresses.

**Pedagogy**

My pedagogy, as you will see, is very much a down to earth, conversational approach to teaching. I try to drive home the intuition first, then build to the technical elements, concluding with code wherever possible. My experience has been that if I can help someone like myself who doesn’t have the strongest background in math or statistics, then I can help most people as I don’t consider myself the sharpest tool in the tool box.

**Communication – Zoom and Discord**

We will use **zoom** (the following link specifically) to meet, and we will use an app called Discord to communicate via text. And when we need to use our words, we will unmute and speak together on Zoom. I chose to do it this way because this summer I rand a large workshop of 1500 people over the video game streaming platform, Twitch, and the chat feature I noticed was well received by others. I have multiple screens at home and so I will often just look at the other screen and respond. As a result, you should feel perfectly comfortable asking questions whenever you want. Whereas in Zoom, entering into the chat field can feel like interrupting the speaker, doing so in Discord for some reason feels less so, so again, I prefer it.

*Zoom link*

See the end of this document for day one (Friday February 18, 2022 at 8am CST US and Canada) through day three (Friday February 25, 2022 at 8am CST US and Canada). The links to the recordings will be stored on Zoom cloud and you can have them for as long as you want. I tried distributing videos other ways last class, and it just was too hard to use (dropbox wouldn’t let me distribute and temporarily banned my account due to excessive traffic). The zoom link was sent in an earlier, but it is also below. Please note that it has a password. Under no circumstances should you share this with anyone as you paid and they didn’t and this is really a thing provided for you.

*Discord installation instructions*

Discord is both an app you can download from your app store for your phone, but also a desktop application. You can download it here:

<https://www.inmotionhosting.com/support/edu/discord/how-to-install-discord/>

If you click on the following link, you will also be taken to our class’s Discord channel. Remember – Discord is just a group chat app, much like Slack. So it’ll be intuitive in my opinion once we get into it.

*Discord link:*

<https://discord.gg/UXAUDGWw>

**Github**

The slides and other materials that we are using will be made available using what’s called a Github repository, or repo for short. If you are old like me, and increasingly all evidence suggests indeed I am old, then you may not have any or much idea what github is. But if you are young, or if you work within industry, then you will likely have some experience. The average person is somewhere between old and young, and therefore I have decided to use github repo to store and distribute the materials we will use in this workshop.

github.com/Mixtape-Sessions/Difference-in-Differences

**Code**

*R google collab*

<https://colab.research.google.com/github/scunning1975/mixtape_learnr/blob/main/R_ipynb/Difference_in_Differences.ipynb>

<https://colab.research.google.com/github/scunning1975/mixtape_learnr/blob/main/R_ipynb/Synthetic_Control.ipynb>

*Python collab*

<https://colab.research.google.com/github/scunning1975/mixtape_learnr/blob/main/R_ipynb/Matching_and_Subclassification.ipynb>

**DiD packages**

<https://asjadnaqvi.github.io/DiD/docs/01_stata/>

<https://github.com/asjadnaqvi/DiD>

**Vignettes**

<https://lost-stats.github.io/Model_Estimation/Research_Design/event_study.html>

<https://cran.r-project.org/web/packages/fixest/vignettes/fixest_walkthrough.html#4_Interaction_terms>

**Office hours**

30-60 minute office hours are available for all who paid the full $595 price. Please contact me at [causalinf@mixtape.consulting](mailto:causalinf@mixtape.consulting) and cc my assistant Emmi at [emmi.scott@mixtape.consulting](mailto:emmi.scott@mixtape.consulting) to set that up.

**Zoom link (Day One)**

**February 18 2022**

**Friday, 8:00AM Central time (US and Canada)**

Scott Cunningham is inviting you to a scheduled Zoom meeting.

Topic: Mixtape Sessions -- Difference-in-Differences (Day 1)

Time: Feb 18, 2022 08:00 AM Central Time (US and Canada)

Join Zoom Meeting

https://us02web.zoom.us/j/81888524427?pwd=NFFWSWpyaC9zczlNc3FLUGRYeFREZz09

Meeting ID: 818 8852 4427

Passcode: 583510

One tap mobile

+13462487799,,81888524427#,,,,\*583510# US (Houston)

+16699009128,,81888524427#,,,,\*583510# US (San Jose)

Dial by your location

+1 346 248 7799 US (Houston)

+1 669 900 9128 US (San Jose)

+1 253 215 8782 US (Tacoma)

+1 301 715 8592 US (Washington DC)

+1 312 626 6799 US (Chicago)

+1 646 558 8656 US (New York)

Meeting ID: 818 8852 4427

Passcode: 583510

Find your local number: https://us02web.zoom.us/u/khG7Yxosi

**Zoom link (Day two)**

**February 19 2022**

**Saturday, 8:00AM Central time (US and Canada)**

Scott Cunningham is inviting you to a scheduled Zoom meeting.

Topic: Mixtape Sessions -- DiD (Day Two)

Time: Feb 19, 2022 08:00 AM Central Time (US and Canada)

Join Zoom Meeting

https://us02web.zoom.us/j/85305620727?pwd=b2JZUXV1WFZ6QjdTRFRFYkI4dHA4Zz09

Meeting ID: 853 0562 0727

Passcode: 362132

One tap mobile

+13462487799,,85305620727#,,,,\*362132# US (Houston)

+16699009128,,85305620727#,,,,\*362132# US (San Jose)

Dial by your location

+1 346 248 7799 US (Houston)

+1 669 900 9128 US (San Jose)

+1 253 215 8782 US (Tacoma)

+1 301 715 8592 US (Washington DC)

+1 312 626 6799 US (Chicago)

+1 646 558 8656 US (New York)

Meeting ID: 853 0562 0727

Passcode: 362132

Find your local number: https://us02web.zoom.us/u/kbI3Dhpgdd

**Zoom link (Day three)**

**February 25 2022**

**Friday, 8:00AM Central time (US and Canada)**

Scott Cunningham is inviting you to a scheduled Zoom meeting.

Topic: Mixtape Sessions -- DiD (Day 3)

Time: Feb 16, 2022 08:00 AM Central Time (US and Canada)

Join Zoom Meeting

https://us02web.zoom.us/j/86150071184?pwd=V0daZlo2UlZtK0FMUUlXaWVCdE40Zz09

Meeting ID: 861 5007 1184

Passcode: 015042

One tap mobile

+13462487799,,86150071184#,,,,\*015042# US (Houston)

+12532158782,,86150071184#,,,,\*015042# US (Tacoma)

Dial by your location

+1 346 248 7799 US (Houston)

+1 253 215 8782 US (Tacoma)

+1 669 900 9128 US (San Jose)

+1 312 626 6799 US (Chicago)

+1 646 558 8656 US (New York)

+1 301 715 8592 US (Washington DC)

Meeting ID: 861 5007 1184

Passcode: 015042

Find your local number: https://us02web.zoom.us/u/kdjFS1GEh5

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<https://download.stata.com>  
  
with the following credentials:  
  
Username:  1645107140  
Password:  v05zqWNv  
  
For assistance with installation, you may view the Stata installation  
guide at  
  
<https://www.stata.com/install-guide>  
  
If anyone has difficulty installing the program, feel free to contact  
our technical services department at [tech-support@stata.com](mailto:tech-support@stata.com). Be sure to  
reference Stata serial number 401709372191.