

# ReadMe for “Causal Inference and Program Evaluation”

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## ReadMe

This folder contains the material I prepared for final project, organized as follows:

- Replication, which contains the files to reproduce the figures and tables of the paper “Carbon Taxes and CO<sub>2</sub> Emissions: Sweden as a Case Study” (Julius J. Andersson, 2019)
- Extensions, which contains the files to develop the extension about synthetic difference in differences

The Replication folder contains the Fact Checking Report, the log files resulting from the dofiles and the subfolders data, DoFiles and output. In the Fact Checking Report there is a detail explanation of the data folder. In the DoFiles there are:

- 1.Replicate\_Figures
- 2.Replicate\_Tables

The subfolder output contains the figures(in .png format) and tables (in .tex format) to replicate the paper. I want to highlight that just by running the 2.Replicate\_Tables do file you do not directly obtain the final tables for two reasons: first, I am better at designing the table by writing on Latex (tables 1, 2 and 3 are in the output folder, but are modified in Latex afterwards), second I could not use the command `esttab` for the matrix results about the weights and the predictors. However, I leave in the output folder a subfolder named “Tables from Latex” where there all the 9 tables in .tex format.

The Extension folder contains the slides that present the extension, the log file resulting from the do.file and the subfolder data, DoFiles, Literature and output. The subfolder data contains the dataset *carbontax\_data.dta*, which I copied from the author’s replication file. The subfolder DoFiles includes the code SDiD Extension.do which replicates the figures and tables in the slides.

The subfolder Literature contains the articles I read to implement the extension. Finally, the results are contained in the subfolder output, which is divided in: DiD Figures, opt SDiD Figures, proj SDiD figures, SC Figures and SDiD Figures.