程序代写代做 CS编程辅导

Final Coursework

Intitative Methods (PUBL0055)

Instructions

Submission Form

- The final assessm 2023 at 9am, and is due on 11th January 2023 at 2pm. Please follow all designated SPP submission guidelines for online submission as detailed on the PUBL0055 Moodle page. Standard late submission penalties apply.
- The coursework should be submitted via the 'PUBL0055. Assessment 2 2000 word final paper (70%)' link on the course Moodle page. You will need to that the 'Submit Paper' link at the bottom of the page. When presented with the 'Submit Paper' box, the 'Submission Title' should be your candidate number, and you should upload your document into the box provided.
 - Please remember 505th 501111 to Pandi late up to only our expectation of the relation of the
- This is an assesse Diece of coursework (worth 70% of our final produle mark) for the PUBL0055 module; collaboration and arrassustion of the cursework with anyone partially prohibited. The rules for plagiarism apply and any cases of suspected plagiarism of published work or the work of classmates will be taken seriously.
- As this is an assested nice of work to Rasho mail/sx the course teaching team questions about the coursework.
- Along with the coursework questions, the necessary data sets for the coursework can be found on the PUBL0055 page on Moodle.
 //tutorcs.com

Coursework Formalities

- The word count for this assessment is 2,000 words. This does *not* include the code, your output, or any words (or numbers) contained within tables or figures. The word count must be clearly indicated on the first page of the assessment submission. Standard word limit penalties apply.
- The coursework consists of two separate sections, each with several questions and subquestions. The marks allocated for each section are indicated in the text. You must complete each question to achieve full marks.
 - Together, the questions are worth 90 marks.
 - 10 marks are reserved for presentation (see below).
- Please submit your type-written (numbered) answers in a single document (preferrably a pdf file, but word files or equivalent are also allowed). Make sure that you include the code, the output (plots, tables etc), and the answers in the document. Double check after uploading your document that all graphs, table, code, and written answers are visible.
- Unless otherwise stated, answers should be written in complete sentences. Be sure to answer all parts of the questions posed and provide a substantive interpretation of the results.

- You can integrate the code with the answers (make sure that it is completely visible), as shown for example in the semilier workshoet solutions. After the large transfer of the Norden solutions and the Norden solutions are the Norden solutions.
 - In either case, your code has to work when we run it. You do not need to include the code that failed to run, and the failed to run.
 - If you do not will be disregged a deal of the distribution will be disregged a deal of the distribution will be disregged as a deal of the distribution will be distribution. The distribution will be distribution will be distribution will be distribution. The distribut
 - Do not scree the control of the any brute R output (e.g. lm(y~x)) into your answers. If applicable, control of the control o
- Round all number and a start after the decimal point.
- Assign every table number and refer to the number in the text when discussing a specific figure or table.
- You may assume that references to *methods* you have used (e.g. difference in means, linear regression, etc) are understood by the reader and do not need definitions, but you do need to be able to explain what they do and how they apilly a knowling the question.

Presentation (18 marks) ment Project Exam Help

Points will be *deducted* for bad presentation, which includes (but is not limited to):

- Failure to write the syrain full squareores @ 163.com
- Failure to clearly indicate which question is answered where and which code pertains to which question
- Including screenshots from R output
- Including long print out of data sets and objects (e.g., using View(), show())
- Reporting unrounded numbers
- Including unneces articles output utores.com
- Presenting figures with no or unclear axis labels (or labels that are the unedited variable name in the dataset)
- Presenting tables that are hard to read/not well formatted
- Presenting unnumbered and/or untitled tables and figures
- Referring to the variables in-text by their unedited name from the dataset

Section 1:

程序代写代做 CS编程辅导 Corruption Incidence and Local Health Councils in Brazil

The relationship between well functioning lead institutions and corruption is an important issue across the globe.

To explore the relation: The second construction of the health sector and incidence of corruption, we will conduct some analy the research conducted in Brazil by Avelino, Barberia, and Bilderman (2014).

To measure how establing the stabling of the stablished at the services in the stablished at the services in t

The authors collected data from a set of Brazilian municipalities that had been randomly selected to be audited by the federal government. Detailed memos are produced for each source of federal funding in the selected municipalities, including for fleat L gracts Additos include "evidence reports" to these memos, depending on the number of irregularities identified.

To measure corruption, the authors looked through the evidence reports for federal grants, and counted the number of such reports that mention irregularities. The innicipal level percentage of these evidence reports that mentioned irregularities was regard as the corruption index store, ranging he were it and 100.1

The author's primary hypothesis is that the more well-established a health council is in a municipality, the more likely corrupt practices will be uncovered. This is because the authors believe that "local governments acquire expertise to manage the health system over time and council year represents a marginal gain in local capacity", including in the control of corruption. Thus, we would expect more established health councils (that is, those that are older) to have a lower incidence of corruption.

The variables that will be included in the analysis are as follows:

Name	QQ-149389470 Description
municipality	Unique code number for municipality
corruption	Numeric corruption index (0-100), percent of evidence reports mentioning
council.age	https://www.neighbor.com.com/Number of years the health council has been established when the
	municipality was audited
margin	Margin between the elected mayor and the runner-up candidate in the
	previous election, in percentage points
reelected	Dummy variable that identifies whether the mayor was in their second
	term at the time of the audit. If so, the value is "1", otherwise "0"
transfers	Federal government grants as a share of total health expenditures in the
	municipality (percentage)
poverty	Percentage of individuals below the poverty line

You can download the data set as trading.csv from the PUBL0055 Moodle page. Once you have downloaded this file and placed it in the relevant folder, it can be loaded into R as follows:

brazil <- read.csv("data/brazil.csv")</pre>

Question 1 (6 marks)

We are first interested in exploring the data set and conducting some descriptive analyses.

- b. Plot and interpret a boxplot of the health council age (council.age). (2 marks)
- c. Interpret the median and mean of the variable corruption (2 marks)

Question 2 (8 ma

We then proceed with a



- a. Fit and present a as the explanator
- with the corruption index as the outcome and age of council
- b. Discuss the statistical and substantive significance for the intercept and the estimated regression coefficient for council, ago. Is the intercept meaningful in this model? (4 marks)
- c. Under which assumptions can we interpret the regression coefficient as the average effect of council age on corruption? (3 marks)

Question 3 (10 mars signment Project Exam Help

As the authors did in the original study, we now add a number of other municipal-level explanatory variables to our regression model: margin of victory for the Mayor in the last election; whether the Mayor is re-elected; and the poverty level.

- a. Fit a multiple linear regression model, adding margin, reelected, and poverty to the model in the previous question. Present this model alongside the simple linear regression model. (1 mark)
- b. How has the estimated coefficient for council age changed? What does that tell us about the variables we have added to the model? (3 marks)
- c. Discuss and compare the model fit for the multiple and the simple linear regression models. (3 marks)
- d. What is the predicted corruption index score for a mulicipality health council that is 10 years old, that has a re-elected Mayor, where the Mayor won the last election by 12 percentage points, and where the poverty level is 50? (3 marks)

Question 4 (14 marks)

Although it was not explored in the original paper, we are interested in whether the relationship between the age of the health council and incidence of corruption differs between municipalities with and without a reelected Mayor.

- a. Fit a multiple linear regression model, adding an interaction between reelected and council.age to the multivariate model from the previous question. Present this model alongside the model without the interaction. (1 mark)
- b. Interpret the estimated coefficient for margin. You do not need to discuss statistical significance. (2 marks)
- c. Calculate and interpret the 95% confidence interval for the estimated coefficient of poverty. (3 marks)
- d. Interpret the relationship between council.age and corruption. (3 marks)

e. Using the model you estimated in 4.a, calculate the fitted values for health councils with ages between 0 and 20 years, se trately for intinicipalities with 50d without project of makes. The electoral margin to 10 percent and poverty store to 50 percent. Present the litted values visually and describe what the graph shows. (5 marks)



WeChat: cstutorcs

Assignment Project Exam Help

Email: tutorcs@163.com

QQ: 749389476

https://tutorcs.com

Section 2:

程序代写代做 CS编程辅导 Asset trading and attitudes to peace

What are factors that which people support peace processes? Research suggests identities and increase out-group discrimination (see, e.g., that (ethnic) violence Shayo & Zussman 201 to decrease exclusionary attitudes has been to encourage embers of the out-group (see, e.g., Adida, Lo & Platas 2018), individuals to put them Jha & Shayo (2019) arg ancial markets might be another factor that can help promote Lacted conflicts. The basic idea is simple: conflict tends to be more inclusionary, profinancially costly. Finar ate the shared risks from conflict and the returns from peace" Lest in financial assets that are negatively affected by conflict (p.1561-1562). Therefore (e.g., stocks of compani eas) might have a better understanding of the financial risks of conflict and, in addition, be (financially) negatively affected by conflict. Accordingly, they hypothesize that individuals exposed to financial markets will become more pro-peace. To test their theory, they conduct a field experiment in Israel, in which they randomly assigned a sample of Israeli voters to a financial asset treatment group or a convol group. Indignifials in the treatment group received vouchers to invest in specific stocks or indices from Israel and the Palestinian Authority. Participants were surveyed before and after the experiment.

This section is loosely based on the experiment that Jha Shayo conducted and uses a (modified) version of the data they collected. You an lown on the data let is triding sy from the PUBLO055 Moodle page. We will examine whether investing in Israeli or Palestinian stocks affects pro-peace attitudes among Israelis.

The data set contains the following variables:

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Variable name	Description III. tutores & 103.com	
assettreat	Treatment assignment, 1 if respondent was assigned to a treatment group (Israeli or	
	Palestinian stock), 0 if respondent was assigned to the control group	
asset_comp	Treatment uptake. If respondent was a signed to a treatment group and actually	
	complete the instruction session and accepted their assigned assets, 0 otherwise	
isrstock	Israeli stock treatment, 1 if respondent was assigned to trading Israeli stocks, 0	
	otherwise	
palstock	Palestinian stock/typatment 1 if respondent was assigned to trading Palestinian stocks, behavior tuttores. Com	
tradestock6all	Pre-treatment financial market exposure, 1 if respondent bought/sold shares in the 6	
	months before the experiment, 0 otherwise	
age	Respondent age (in years) before experiment began	
faminc	Monthly family income in NIS (New Israeli Shekel) before experiment began	
religion	Respondent religion before experiment began	
female	Respondent sex, 1 if respondent is female, 0 otherwise	
BA_or_higher	Respondent education, 1 if respondent had a BA degree or higher before experiment	
	began, 0 otherwise	
right_2013	Pre-treatment (2013) voting behaviour, 1 if respondent voted for a right-wing	
	(anti-peace) party in 2013, 0 otherwise	
right_2015	Post-treatment (2015) voting behaviour, 1 if respondent voted for a right-wing	
	(anti-peace) party in 2013, 0 otherwise	
left_2013	Pre-treatment (2013) voting behaviour, 1 if respondent voted for a left-wing	
	(pro-peace) party in 2013, 0 otherwise	
left_2015	Post-treatment (2015) voting behaviour, 1 if respondent voted for a left-wing	
	(pro-peace) party in 2013, 0 otherwise	
p_index_2013	Pre-treatment (2013) peace attitudes index, higher values indicate higher support for	
	peace. Index is based on respondent's answer to four questions, you can check out	
	Table B14 in the paper's B Supplementary Appendix for a list of questions	

Variable name	Description AS
p_index_2015	Post-freakment 2015) perce at itules index high affialdes indicate in the resupport
	for peace
p_index_2016	Post-treatment (2016) peace attitudes index, higher values indicate higher support
e_index_2013	P ₁ nomic policy attitudes index, higher values indicate higher su
e_index_2015	Policy attitudes index, higher values indicate higher su
You can load the	data s
trading <- read	l.csy("data/trading.csy")

Question 1 (9 marks eChat: cstutorcs

Data preparation and description:

- a. How many individual Sestion and the part of the par were assigned to the treatment group, but did not receive Israeli or Palestinian stocks? (2 marks)
- b. Drop the individuals who were assigned to the treatment group, but received neither Israeli nor Palestinian stocks from the part set For the remainder of Section 2, we will work with this subset. (1 mark)
- c. Among those who were treated, what is the proportion of those who took up the treatment (i.e., participated in the triuming and actually traced afterwards)? Is there a difference in uptake between respondents who were assigned Israeli and Palestinian stocks? Have a think about why (or why not) this might be the case. (3 marks)
- d. Let's also explore our main out come, support for peace. Produce a graph to inspect the central tendency and the spread of the peace in levia 2 (13) pre-treatment) and 2015 (post-treatment). What can you tell us about the spread? What would you consider a "substantively meaningful" change in a respondent's attitude towards peace? (3 marks)

Question 2 (9 marks)

Now we are interested in whether being exposed to financial markets, i.e., trading stocks, affects attitudes to peace.

- a. Estimate the impact of being assigned to receive the treatment (assettreat) on attitudes toward peace using the difference in means. Make sure to only use the post-treatment measure (p index 2015). Does receiving stocks to trade increase support for peace? Present your output, provide a brief explanation and comment on the substantive significance of the effect. (3 marks)
- b. Calculate the standard error of the estimate ("by hand" in R) and use it to compute 99% confidence intervals. Interpret your results. (3 marks)
- c. Explain the concept of a "sampling distribution". What is the shape of the sampling distribution in this example? Why is it relevant here? (3 marks)

Question 3 (9 marks)

The data set stems from a field experiment. Participants were randomly assigned to receive stocks or not. One worry might be that the randomisation did not work properly.

a. Why might this b the causal effect c indicate the causal effect c indic

b. If indeed randomi the poperly, which potential confounder (focus on factors that we have data on in the poperly that the poperly that we reticularly worried about? Explain how this factor could bias our estimate of the poperly that the poperly the poperly that the poperly that the poperly the poperly that th

c. Test whether rand the latest the groups wariables between groups. What do you conclude? (3 marks)

Question 4 (14 marks)

So far, we have focused of stinating are average treatment effects of being assigned to receive stocks. However, some participants in the treatment group were assigned Israeli stocks and others Palestinian stocks. We will now examine whether there are heterogeneous treatment effects, depending on whether participants were assigned to invest in Israeli or Palestinian stocks.

- a. If the authors' hypothesis about the effect or being exposed to financial markets is true, should we expect that the treatment effect is similar for both respondents assigned to receive Israeli stocks and those assigned to receive Palestinian stocks? Explain your answer. (2 marks)
- b. Let's examine whe her penget osed to is to if the prosing going in only fould have particularly strong effects on attitudes towards peace. Formulate a null and an alternative hypothesis about the difference in the effect between the two treatment groups. (3 marks)
- c. Test your hypothesis. Present and interpret your results. What's your answer? (3 marks)
- d. One important concept in quantitative data analysis is statistical significance. Briefly explain what statistical significance is, and what influences whether it is high or low in the case of your analysis in 4.c. (3 marks)
- e. In your analysis in 1. tup St worred in the about Snaking 11 error? Briefly explain which you are worried about more and why. (3 marks)

Question 5 (7 marks)

We could also use this data set to employ a difference-in-differences design.

- a. Explain in your own words under which assumptions we can use a difference-in-differences design to identify the causal effect of a treatment. Are these assumptions met in this case where we are looking to identify the causal effect of being exposed to financial markets on attitudes to peace? (3 marks)
- b. Compute the difference-in-differences point estimate of the effect of being assigned stocks on attitudes to peace. Interpret your finding and comment on the substantive and statistical significance of your results. (4 marks)

Question 6 (4 marks)

Considering your findings (your answers to questions 1-4) briefly evaluate the internal and external validity of your results. What do we mean by internal and external validity? Comment on whether and why your findings have high/low external and internal validity.