程序代写代做 CS编程辅导

Final Coursework

intitative Methods (PUBL0055)

Instructions

• The coursework w on 18th December 2020 at 6pm, and is due on 11th January 2021 at 2pm. Plea SPP submission guidelines for online submission as detailed on the PUBl0055 Moodle page. Standard late submission penalties apply.

- This is an assessed piece of coursework (worth 75% of your final module mark) for the PUBL0055 module; collaboration and/or discussion of the coursework with anyone is strictly prohibited. The rules for plagiarism apply and any cases of suspected plagramsm of published work or the work of classmates will be taken seriously.
- As this is an assessed piece of work, you may not email/ask the course tutors or teaching fellows questions about how to complete the essay. If you believe that there may be an error in the questions posed, please email both blauderdal court.ac.uk and j.blumenau oucl.ac.uk to request clarification/correction.
- Along with the essay questions, the provided datasets for the essay can be found in the PUBL0055 page on Moodle.
- The final essay should last childed via the Orbitis Submission. UBL (050 Isly 2' link on the course Moodle page. You will need to click 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 to state ONLY your candidate number or your coursework (your candidate number is made up of four letters and one number e.g. ABCD5). Your name and/or student number MUST NOT appear on your coursework.
- The coursework consists of three sections, each based on a different data set. There are five total questions across those three sections, Each question will receive equal weight in your final exam mark.
- Unless otherwise stated, inswers should be written in complete sentences. Be sure to answer all parts of the questions posed and interpret the results.
- The word count for this assessment is 3000 words. This does not include the code, or any words (or numbers) contained within tables or figures.
- Please submit your type-written (numbered) answers in a single document (as a .pdf, .doc, or .docx file).
 You should create an appendix section at the end which contains all the R code needed to reproduce your results.
- You may assume the 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 explain how they apply to answering the question.
- Round all numbers to two digits after the decimal point.
- Do not screenshot or copy and paste brute R output (e.g. lm(y ~ x)) into your answers. Create a formatted table that is easy to read. The one exception to this rule is that you may use screenreg() to format a table of regression coefficients.
- Assign every table and figure a title and a number and refer to the number in the text when discussing a specific figure or table.

Section 1 - Call to Military Service and Political Attitudes

How does being called to military riestion has received a lot of attention in political science, and particularly so in the United States, where, until 1973, many men were enrolled into the armed forces on a mandatory basis. In a recent paper, Green, Davenport, and Kolby (2019) examine whethe m consequences for the political behaviour and attitudes of those men eligible for t lraft randomly selected men who turned 19 prior to 1969 to serve in the US army. d men eventually served, we can investigate whether being drafted has long-term e olitical behaviour. In particular, in this section, we will focus on the effects of being

The replication data fr variables:

n the vietnam_draft.Rdata file, and contains the following

Name	Description
Drafted	Whether a respondent was drafted (1) or not (0)
Wave	The wave in which the respondent participated in the survey (1-4)
State V	Respondent state Suesidence of the Sime of the survey (5 unique states)
date	Respondent's date of birth (mm/dd/yyyy)
birthyear	Respondent's year of birth (1950, 1951 or 1952)
dem	Whether the respondent is a registered Democrat (1) or not (0)
rep A	Sylegeniersponent i arenteein pulitax apport of elements whether the respondent lived in arranal (1) or urban (0) zip code at the
lulai	time of the survey
CollegeDegree	Whether the respondent graduated from college (1) or not (0)
RaceEthnicity	Mhate If the respondent is not hispanic white, Black if African American,
Vote120bama	TRUE if the respondent voted for Obama in the 2012 Presidential election,
	FALSE otherwise
AfghanistanMistake	RUE of the respondent hought that the invasion of Afghanistan was a mistake, FRLSE oldewise
IraqMistake	TRUE if the respondent thought that the invasion of Iraq was a mistake,
-	FALSE otherwise
AttendedPolEvent 4	TRUE if the respondent attended a political party event in the past two
n'	ttpes, ratelliewiecs.com
trust	Respondent's general level of trust ranging from "you can never trust other
	people" (1) to "you can always trust people" (5)
ideology	Respondent's political ideology ranging from very conservative (1) to very
	liberal (5)

After downloading the data and storing it in the relevant folder, you can load this data into R using the following command:

load("data/vietnam draft.Rdata")

Once you have successfully run this command, it will be available as a R data frame called draft.

Question 1

A. Calculate the difference in mean trust between drafted and non-drafted respondents. Provide a brief interpretation.

B. Explain the concept of a "sampling distribution". What is the shape of the sampling distribution for the difference in mean trust between drafted and non-drafted respondents? How is the concept of the sampling distribution relevant and useful for analysing these survey data?

C. Calculate the standard error and the 95% confidence interval for the difference in means using the formulae that we covered (i.e. do for just use the t.tex function to the plan what they take the transfer in general and what they tell us in this instance.

D. Now estimate the same effect by using linear regression. Present the result in a table, interpret the regression coefficient and the coefficient of Drafted be interpreted causally why or why not.

Question 2

A. Fit a linear regressic covariates RaceEthnicity and birthyear in addition to the treatment variable. May be a solution of the streatment variable. May be a solution of the streatment variable. May be a solution of the model from Question 1 part D above. What is the estimated control variables in this regression?

B. In the multiple regression model that you fit in part A, fully interpret the magnitude and statistical significance of the coefficient for the level Black of the RaceEthnicity variable.

C. Select two further outcome variables from Vote120bama, AfghanistanMistake, IraqMistake, AttendedPolEvent, and ideology that might tell you something about the long-term effects of being drafted on attitudes or political behaviour. Estimate the average treatment effect of being drafted on these outcomes. (For the purpose of this Auestion, you can run linear regression models will a binary dependent valuable.) Produce a graph or a table to present your results. Write a short report summarising your findings.

Question 3

Use a multiple linear regression mode to investigate whether the effect of being orded on levels of trust are different for the different race/ethnicity groups defined in the variable RaceEthnicity (White, Black and Hispanic). Write a short essay describing what you find, including an assessment of the strength of the evidence for any differences (or lack thereof) that you find.

In writing this essay, you plight want to 193894/6

- Provide relevant descriptive statistics for the key variables
- Explain how you set up the model(s) to make this assessment
- Present your regression estimates in attack along with the other models for trust that you fit in Questions 1D and 2A.
- Construct fitted values for relevant cases to illustrate the relationships described by the model.

Please note that you need not present all of these, you should aim to clearly describe the data and what they can tell us about differences in the long-run effects of being drafted for individuals in the three race/ethnicity categories in the data set.

Section 2 - The Effect of Municipality Size

How does the size of a political system affect the cost of running at the foliation than shaller units might be able to deliver targeted services that keep costs low. On the other hand, larger political units may have more cost-effective service delivery, because they can benefit from economies of scale.

The effect of the size of delivery is difficult to a just with regard to their reform that took place i We will use the 2007 m cost. Since the reform t

e example of political systems — on the cost of public service and larger municipalities will differ on many dimensions, not with potential confounding is to use data from a municipality 07 in which many municipalities were quite suddenly merged. Jore whether mergers affect per capita public service delivery will consider the post-treatment period to start in 2008.

The CSV file cost_data below. In this data, each row is a municipality-year observation. The control and future treatment outcomes are based on the average of the outcomes of the municipalities that were later merged. Note that before the 2007 reform the number of control and future treated municipalities was similar.

The outcome of interest is public service delivery costs per capita called Y. Whether a municipality is merged (treated) or not (control) is indicated as 1 or 0, respectively, in the variable called **treatment**. The data also contains region and municipality identifiers:

	Aggionment Project Even Hala
Name	Assignment Project Exam Help
year	Year (2005-2011: 2005-2007 pre-treatment, 2008-2011 post-treatment)
Y	The outcome variable. Public service delivery costs per capita.
treatment	Enter the unique regions of the salt of 320 corn (1) or not (0).
region	Region ID (4 unique regions)
municipality	Municipality ID (87 unique municipalities)

Once you have downloaded the data file and placed it in the relevant folder, it can be loaded into R as follows:

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

Question 4 https://tutorcs.com

- A. Calculate, compare and interpret the yearly outcomes by treatment group. What does this tell you?
- B. Using the data from the years 2007 (the last year of the pre-treatment period) and 2008 (the first year of the post-treatment period), compute the difference-in-differences estimate of the effect of municipal merger on public service delivery costs.
- C. Use an appropriate linear regression to calculate the same difference in differences estimate that you calculated in part B. Show that you get the same numerical value, and use the results of the regression to test the null hypothesis that the difference in differences is equal to zero. Interpret your results in terms of the research question posed at the beginning of this section.

Section 3 - Direct Democracy and Naturalisation

In Switzerland there is a tradition of using direct denictacy (relevanta) by a wider table of decisions than in most democractic countries. Citizens are called to vote on referendums four to five times a year, and, until 2003, many municipalities decided on immigrants' citizenship applications in secret ballot votes. Even though applications would only the fulfill all naturalisation requirements, voters rejected many immigrants' applied to the following: being integrated, respecting the legal order to the following: being integrated, he security of Switzerland, self-sufficiency, and, depending on the region, mastering the

In this section, you will include the vote result applicants that stems fi applicants were rejected while others were not. The data ons, and a number of variables with information about the were sent to voters before the secret ballot vote:

Name	Description
born_CH	Whether applicant is born in Switzerland (1) or not (0)
since XX/	Number of years since arrival in Switzerland
male VV C	Whether applicant is there (1) or it male (0)
kids	Whether applicant has children (1) or not (0)
unemployed	Whether applicant is unemployed (1) or not (0)
refugee	• Whether applicant has refugee status (1) or not (0)
married AS	signment is Project Exam Help
percent_novotes_rounded	Percentage 'no' votes in application referendum
origin_region	Applicant's region of origin
application_decade	Decade in which application was voted on
age $+m$	Applicant age (naming from 0-20 years" to (0) 17 years") Applicant education level (low, middle, high)
education	Applicant education level (low, middle, high)
local_language	Applicant local language skills (ranging from "insufficient" to
	"perfect")
integration_level	• Applicant integration ever ranging from "familiar with Swiss customs and traditions to indistinguishable from Swiss")
skill_level	Applicant skill level (low, middle, high)

The data is stored in parteting a could be the parteting a could be the parteting as follows:

```
pass <- read.csv("data/passport_data.csv")</pre>
```

Question 5

Your task in this section is to investigate the relationship between the share of No votes that an applicant received and the applicant's characteristics. In particular, we are interested in whether applicants are discriminated against based on their region of origin. To explore this question, you should implement two linear regression models with percent_novotes_rounded as the dependent variable.

In the first model, the only explanatory variable should be the origin_region variable. For the second model, you should build a model which – in addition to the origin_region variable – includes exactly **three** additional explanatory variables that you think might be useful to include from the supplied dataset. You should explain why you think these particular variables are important to include, given that our main interest is in the relationship between region of origin and application no votes. Please note that, for the second model, you should *not* estimate several different models and present the results, but rather you should argue theoretically why you chose certain variables.

You should write up the results of these models as if they were to be published in a political science journal article with a focus on communicating the substantive meaning of your results. In your discussion of these

models, you should focus on communicating the substantive implications of the regression that you implement, paying particular attention to the relationship between all applicances to extra or or the outcome of his or her citizenship application. You may wish to focus on the following

• Provide descriptive statistics and/or plots to provide the reader with an overview of the dependent variable and the interaction are ariable(s) that you intend to use.

• Provide a well-form output which includes the key information about the models you have estimate output which includes the key information about the models

eve significance of the relationships that you illustrate.

• Discuss model fit, • stic

Discuss both the

• Discuss whether can be represented by the causal effects of representations and the causal effects of representations.

• Discuss weaknesse ———————otential alternative analysis designs that you might use (given different data) to

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