Stigler Center: 2022-23 Research Professional Task

George J. Stigler Center for Study of the Economy and the State*

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Instructions

Please complete the following tasks and submit the required materials by the designated deadline. Ensure that you follow the directions carefully and submit all requested materials.

General

Both the code and the results that you submit should be legible to your peers and those who would be your supervisors. That is, ensuring that your code is well-documented and well-commented; and that your written reports and data visualizations clearly convey your analysis is of the utmost importance.

Additionally, writing manageable and reproducible code is critical for research. For each task, please write a README that describes each of the files that you have created/used and what each does. This should be written so that a user with a technical background but with no knowledge of the task itself can understand your code and reproduce all of the output products with minimal (if any!) changes to the code itself.

When submitting your materials please submit everything as a .zip file. The name and structure of that compressed file should be as follows:

^{*}asdf

If examples are given, follow them closely. Good luck and have fun!

Disclaimers

The contents of this coding activity are **confidential**. Do NOT share this document or any of the attached material with anyone. Sharing of these instructions or any associated materials will result in your immediate disqualification and may preclude you from future opportunities with the University of Chicago.

1 Python and Web Scraping

1A American Economic Review:

Using Python, collect publication data from the American Economic Review. Using Python and your choice of packages (for example BeautifulSoup, Selenium, or re) and Pandas, collect the following information for all available issues:

- Volume and issue number;
- a hyperlink; and
- issue-date information.

Store the collected issue-level data in a .csv file. Your resultant spreadsheet should be structured follows:

Table 1: Example Task 1A Output Structure

volume	link	issue_date
Volume 112 Volume 112 Volume 112	https://www.aeaweb.org/issues/692 https://www.aeaweb.org/issues/689 https://www.aeaweb.org/issues/685	September 2022 (Vol. 112, No.9) August 2022 (Vol. 112, No.8) July 2022 (Vol. 112, No.7)
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Inside a folder named task1a save your README (use any widely used text format you desire, such as markdown: .md), code, and spreadsheet as follows:

- task1a_[firstname]_[lastname]_README.md
- task1a_[firstname]_[lastname].csv
- task1a_[firstname]_[lastname].[py/ipynb]

1B American Economic Review: Redux

Note that each article published by the American Economic Review is labeled with JEL codes which describe to which field(s) and subfield(s) the article contributes. Each alphanumeric JEL code is associated with a human-readable description. Using the same packages as above, construct a second spreadsheet that contains the following bibliographic information:

- volume and issue number;
- issue-date information;
- the article's title;
- the article's author(s);

- the article's print page-numbers;
- a permanent link to the article;
- the article's JEL code(s); and
- the article's JEL code description(s).

Store the collected issue-JEL-code-level data in a .csv file. Your resultant spreadsheet should be structured as follows:

Inside a folder named task1b save your README (use any widely used text format you desire, such as plaintext: .txt), code, and spreadsheet as follows:

- task1b_[firstname]_[lastname]_README.txt
- task1b_[firstname]_[lastname].csv
- task1b_[firstname]_[lastname].[py/ipynb]

Table 2: Example Task 1B Output Structure

volume	$is sue_date$	$\operatorname{article_title}$	authors	$page_numbers$	$\operatorname{article_link}$	$ m jel_code$	${ m jel_description}$
Volume 112	September 2022 (Vol. 112, No.9)	Belief Elicitation and Behavioral Incentive Compatibility	David Danz; Lise Vesterlund; Alis- tair J. Wilson	pp. 2851-83	https://doi.org/10.1257/ aer.20201248	D83	Search; Learning; Information and Knowledge; Communication; Belief; Unawareness
Volume 112	September 2022 (Vol. 112, No.9)	Belief Elicitation and Behavioral Incentive Compatibility	David Danz; Lise Vesterlund; Alis- tair J. Wilson	pp. 2851-83	$\frac{\rm https://doi.org/10.1257/}{\rm aer.20201248}$	D91	Micro-Based Behavioral Economics: Role and Effects of Psychological, Emotional, Social, and Cognitive Factors on De- cision Making
Volume 112	September 2022 (Vol. 112, No.9)	Dividend Taxes and the Allocation of Capital	Charles Boissel; Adrien Matray	pp. 2884-2920	$\frac{\rm https://doi.org/10.1257/}{\rm aer.20210369}$	D22	Firm Behavior: Empirical Analysis
Volume 112	September 2022 (Vol. 112, No.9)	Dividend Taxes and the Allocation of Capital	Charles Boissel; Adrien Matray	pp. 2884-2920	$\begin{array}{c} \text{https:} //\text{doi.org} / 10.1257 /\\ \text{aer.} 20210369 \end{array}$	G31	Capital Budgeting; Fixed Investment and Inventory Studies; Ca- pacity
Volume 112	September 2022 (Vol. 112, No.9)	Dividend Taxes and the Allocation of Capital	Charles Boissel; Adrien Matray	pp. 2884-2920	$\begin{array}{l} {\rm https://doi.org/10.1257/} \\ {\rm aer.20210369} \end{array}$	G35	Payout Policy
Volume 112	September 2022 (Vol. 112, No.9)	Dividend Taxes and the Allocation of Capital	Charles Boissel; Adrien Matray	pp. 2884-2920	$\begin{array}{l} {\rm https://doi.org/10.1257/} \\ {\rm aer.20210369} \end{array}$	H25	Business Taxes and Subsidies including sales and value-added (VAT)
Volume 112	September 2022 (Vol. 112, No.9)	Dividend Taxes and the Allocation of Capital	Charles Boissel; Adrien Matray	pp. 2884-2920	$\begin{array}{c} \rm https://doi.org/10.1257/\\ aer.20210369 \end{array}$	H32	Fiscal Policies and Behavior of Economic Agents: Firm
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2 Data Analysis

For this task feel free to use the software program/suite of your choice. However, for purposes of reproudcibility, Stata, R, or Python are preferred.

For this task, you should have received the following files:

- a
- b
- c
- \bullet d
- e

Background

In this short task you will conduct a preliminary analysis regarding the role of state-level institutional characteristics and donations to the electoral campaigns of state supreme court judges in the United States. In more than 20 states, state supreme court judges (the term used to describe judges who sit on that state's court of final appeal) are elected by state residents, rather than being appointed by a state executive. The merits of having elected, rather than appointed judges, are unclear. At once, elected judges both embody the virtue of being responsive to a democratic electorate and are subject to those same democratic pressures that may undermine their impartiality.

Donations

As with other elections in the United States, individuals and corporations can make contributions to a candidate's campaign; those contributions can be spent on making advertisements, facilitating a candidate's travel for campaigning purposes, hiring support staff, etc.¹ Each state has slightly different rules about caps on donations and what must be disclosed when individuals or organization make those donations but in all states, those donations are a matter of public record.

Institutional Characteristics

In the United States, the structure of each state's government is determined by that state's own constitution. Consequently, there is considerable variation in the characteristics of each state's judiciary. Examples of such characteristics include:

- Initial selection method. Some states' supreme court judges are only ever appointed by the executive. Others must win election.
- Subsequent selection method. In some states, judges can serve until retirement age or for life. In others, judges must consistently run for re-election. The types of those re-election competitions also vary from state to state.

¹Note that direct donations to campaigns are *different* from contributions to "independent expenditure" groups, so-called "super PACs."

- The length of the terms that supreme court judges can serve.
- The number of judges who serve on the state's supreme court bench at any time.

Your objective is to reorganize and clean the provided data, perform a preliminary data analysis, and write a short report describing the results of your work. Below are limited instructions – a fully discursive set of instructions are not provided because we are interested in seeing how you independently work to ask and answer research questions.

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