

**GV914-7-Spring
Research Design
2021**

Lecturer and Module Supervisor

Dr. Nicole Rae Baerg

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Room: 5.419

Office Hours: Day, Time

Module Administrator

[TBA](#)

Module available for Study Abroad students: Yes No

ASSESSMENT: This module is assessed by 100% coursework

INSTANT DEADLINE CHECKER

Must be submitted by 09:45am on the day of the lecture

Assignment Title	Due Date	Coursework Weighting*	Feedback Due
IV Regression Exercise	Week 20	20%	
Preregistration paper presentation	Week 21	20%	
Matching Exercise	Week 23	20%	
Scientific paper preregistration paper	Week 25	40%	

TOP READS

- Angrist, Joshua and Jorn-Steffen Pischke (hereafter Angrist and Pischke). 2009. *Mostly Harmless Econometrics: An Empiricist's Companion*. Princeton, NJ: Princeton University Press. ^[1]_{SEP}
- Hancké, Bob (hereafter Hancké). 2009. *Intelligent Research Design: A Guide for Beginning Researchers in the Social Sciences*. Oxford, UK: Oxford University Press.
- Kellstedt, Paul M., and Guy D. Whitten. *The fundamentals of political science research*. Cambridge University Press, 2018.
- *** Cunningham, Scott. [Causal inference: The mixtape](#). Yale University Press, 2021.

In **week 20**, students will do a short in class (or at home) replication assignment that the instructor gives you. This replication assignment counts towards 20% of the grade.

In **week 21**, each student should hand in a brief presentation (slides ≤ 15), describing the research question and explaining the motivation for their paper as well as the data that they will use. This presentation counts towards 20% of the grade. Audio is not required.

In **week 23**, students will do a short in class (or at home) replication assignment that the instructor gives you.. This replication assignment counts towards 20% of the grade.

The final preregistration paper is due in **week 25**. The maximum length should not exceed 3500 words. It should include a references list, and use APSA Style rules (<http://www.apsanet.org/files/APSAStyleManual2006.pdf>). The final preregistration paper constitutes 40% of the grade.

What we expect of you during lecture and classes:

- Do the required reading.
- To pay attention and take notes as necessary.
- To think about the readings and lectures notes before the class and be ready to discuss them: try to identify the key assumptions in the texts; map the structure of the argument; underline the conclusions. Highlight to yourself points you don't understand. Ask yourself whether you agree with the text, whether you can identify weaknesses or gaps in the argument, and what could someone who disagrees with it argue against it.
- To offer your participation as required (answering questions, asking questions etc.). Learning about and discussing these texts is a communal endeavour and it is a matter of good citizenship to contribute. Further, part of what we want you to achieve, and what we mark you for, is clear and confident oral presentation. You are expected to answer questions, raise new points, and contribute to the progression of discussion in class.

ASSESSMENT

This module is assessed by 100% coursework.

MODULE STRUCTURE AND TEACHING

This module will be delivered with a two-hour weekly seminar

COURSEWORK SUBMISSION

How to submit your essay using FASER

You will be able to access the online submission system via your myEssex portal or via <https://FASER.essex.ac.uk>. FASER allows you to store your work-in-progress. This facility provides you with an ideal place to keep partially completed copies of your work and ensures that no work, even drafts, is lost. If you have problems uploading your coursework, you should

contact ltt@essex.ac.uk. You may find it helpful to look at the FASER guide <http://www.essex.ac.uk/it/elearning/faser/default.aspx>. If you have any questions about FASER, please contact your administrator or refer to the handbook.

Under NO circumstances is your coursework to be emailed to the administrators or the lecturer. This will NOT be counted as a submission.

Coursework deadline policy for postgraduates

The university has guidelines on what is acceptable as extenuating circumstances for later submission of coursework. If you need to make a claim, you should upload your coursework to FASER and submit a late submission of coursework form which can be found here: <http://www.essex.ac.uk/students/exams-and-coursework/late-submission.aspx>. This must be done within seven days of the deadline. FASER closes for all deadlines after seven days. The Late Submissions committee will decide whether your work should be marked and you will be notified of the outcome.

If you experience significant longer-term extenuating circumstances that prevent you from submitting your work either by the deadline or within seven days of the deadline, you should submit an Extenuating Circumstances Form for the Board of Examiners to consider at the end of the year <http://www.essex.ac.uk/students/exams-and-coursework/ext-circ.aspx>.

Extensions

PGT students may apply for an extension if they have a deadline approaching that they know they will not be able to meet. **ONLY** the Graduate Director has authority to grant extensions. Extensions are only approved **IN ADVANCE** of the deadline. Students must apply to the Graduate Director, via the Graduate Administrator, using the Extension form available on Moodle or from the Graduate Administrator. You **MUST** provide a reason for the request and **EVIDENCE** that supports your application.

Plagiarism

Plagiarism is a very serious academic offence and whether done wittingly or unwittingly it is your responsibility. **Ignorance is no excuse!** The result of plagiarism could mean receiving a mark of zero for the piece of coursework. In some cases, the rules of assessment are such that a mark of zero for a single piece of coursework could mean that you will fail your degree. If it is a very serious case, you could be required to withdraw from the University. It is important that you understand right from the start of your studies what good academic practice is and adhere to it throughout your studies.

The Department will randomly select coursework for plagiarism checks and lecturers are very good at spotting work that is not your own. **Plagiarism gets you nowhere; DON'T DO IT!** Following the guidance on referencing correctly will help you avoid plagiarism. Please familiarise yourself with the University's policy on academic offences: <http://www.essex.ac.uk/about/governance/policies/academic-offences.aspx>.

Extenuating circumstances for late submission of coursework

The university has guidelines on what is acceptable as extenuating circumstances for later submission of coursework. If you need to make a claim, you should upload your coursework to FASER and submit a late submission of coursework form which can be found here: <http://www.essex.ac.uk/students/exams-and-coursework/late-submission.aspx>. This must be done within seven days of the deadline. FASER closes for all deadlines after seven days. The

Late Submissions committee will decide whether your work should be marked and you will be notified of the outcome.

If you experience significant longer-term extenuating circumstances that prevent you from submitting your work either by the deadline or within seven days of the deadline, you should submit an Extenuating Circumstances Form for the Board of Examiners to consider at the end of the year <http://www.essex.ac.uk/students/exams-and-coursework/ext-circ.aspx>.

READINGS

Week 16: The Goal of the Scientific Inquiry, Inference, and Causality

Readings:

- *Angrist and Pischke*, chapter 1-3
- *Hancké*, Introduction and chapters 1-2
- *Kellstedt and Whitten*, chapters 1-2

Recommended:

- *** [Introduction](#) and [Probability and Regression Review](#)

Week 17: Case Selection

Readings:

- Bennett, Andrew. "Case study methods: Design, use, and comparative advantages." *Models, numbers, and cases: Methods for studying international relations* (2004): 19-55.
- *Hancké*, chapter 3
- Geddes, Barbara. 1990. "[How the Cases You Choose Affect the Answers You Get.](#)" *Political Analysis* 2 (1990): 131-52.

Recommended:

- Achen, Christopher, and Duncan Snidal. 1989. Rational Deterrence Theory and Comparative Case Studies. *World Politics* 41(2):143-169
- *Sekhon, Jas.* 2004. [Quality Meets Quantity: Case Studies, Conditional Probability and Counterfactuals.](#) *Perspectives on Politics* 2(2): 281-293.

Week 18: What are we doing here?

Readings:

- Kellstedt, Paul M., and Guy D. Whitten. *The fundamentals of political science research*. Cambridge University Press, 2018, chapters 3 and 4
- Franzes, Robert. "[Econometric Modeling of Political Science & International Relations](#)" *working document*

Week 19: Experiments in Political Science

Required:

- *Angrist and Pischke*, chapter 2

Recommended:

- *Morton and Williams*, chapters 1-4 (pp. 1-103)
- ***[Potential Outcomes Causal Model](#)

Week 20: Natural Experiments and Instrumental Variables

Readings:

- *Angrist and Pischke*, chapter 4
- Miguel, Edward, Shanker Satyanath, and Ernst Sergenti. 2004. [Economic Shocks and Civil Conflict: An Instrumental Variable Approach](#). *Journal of Political Economy* 112(4):725-753.

Recommended:

- Angrist, Joshua and Alan Krueger. 2001. [Instrumental Variables and the Search for Identification: From Supply and Demand to Natural Experiments](#). *Journal of Economic Perspectives* 15(4):69-85
- Sovey, A. J. and Green, D. P. (2011), [Instrumental Variables Estimation in Political Science: A Readers' Guide](#). *American Journal of Political Science*, 55: 188–200.
- Ramsay, Kristopher. 2011. [Revisiting the Resource Curse: Natural Disasters, The Price of Oil, and Democracy](#). *International Organization* 65:507-529.
- Shayo, Moses and Asaf Zussman. 2011. [Judicial Ingroup Bias in the Shadow of Terrorism](#). *The Quarterly Journal of Economics* 126 (3): 1447-1484.
- Getmansky, Anna and Thomas Zeitzoff. 2014. [Terrorism and Voting: The Effect of Rocket Threat on Voting in Israeli Elections](#). *American Political Science Review*, 108(3): 588-604

Week: 21: Approaches to Pre-registration

Readings:

- Leamer, Edward E. (1983). "[Let's Take the Con out of Econometrics](#)", *American Economic Review*, 73(1), 31-43.
- Casey, Katherine, Rachel Glennerster, and Edward Miguel. (2012). "[Reshaping institutions: Evidence on aid impacts using a pre-analysis plan](#)", *Quarterly Journal of Economics*, 127(4), 1755-1812.
- Humphreys, Macartan, Raul Sanchez de la Sierra, and Peter van der Windt. (2013). "[Fishing, commitment, and communication: A proposal for comprehensive nonbinding research registration](#)", *Political Analysis*, 21, 1-20.
DOI:
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Recommended:

- Kling, Jeffrey R., Jeffrey B. Liebman, and Lawrence F. Katz. (2007). "[Experimental Analysis of Neighborhood Effects](#)", *Econometrica*, 75(1): 83-119.
- Anderson, Michael L. (2008). "[Multiple Inference and Gender Differences in the Effects of Early Intervention: A Reevaluation of the Abecedaian, Perry Preschool, and Early Training Projects](#)." *Journal of the American Statistical Association*, 103(484), 1481-1495.

Week 22: Fixed Effects, Diff-in-Diff, Panel Data

Readings:

- Angrist and Pischke, chapter 5
- Kuziemko, Ilyana and Eric Werker. 2006. [How Much Is a Seat on the Security Council Worth? Foreign Aid and Bribery at the United Nations](#). *Journal of Political Economy* 114(5):905-930

Recommended:

- Berry, Christopher and Sarah Anzia. 2011. [The Jackie \(and Jill\) Robinson Effect: Why Do Congresswomen Outperform Congressmen?](#) *American Journal of Political Science* 55(3): 478-493.
- Bertrand, Marianne, Esther Duflo, and Sendhil Mullainathan. 2002. [How Much Should We Trust Differences-in-Differences Estimates?](#) NBER Working Paper 8841.
- Card, David and Alan Krueger. 2000. [Minimum Wages and Employment: A Case Study of the Fast Food Industry in New Jersey and Pennsylvania](#). *The American Economic Review* 90(5): 1397-1420
- *** [Panel Data](#) and [Diff-in-Diff](#)

Week 23: Pre-processing data: Matching and Synthetic Controls

Reading:

- Ho, Daniel, Kosuke Imai, Gary King, and Elizabeth Stuart. 2007. [Matching as Nonparametric Preprocessing for Reducing Model Dependence in Parametric Causal Inference](#). *Political Analysis* 15: 199–236.
- Gilligan, Michael J., and Ernest J. Sergenti. 2008. Do UN Interventions Cause Peace? [Using Matching to Improve Causal Inference](#). *Quarterly Journal of Political Science* 3(2):89-122
- Abadie, Alberto, Alexis Diamond, and Jens Hainmueller. 2015. [Comparative Politics and the Synthetic Control Method](#). *American Journal of Political Science*, 59: 495–510.
- Abadie, Alberto, and Javier Gardeazabal. 2003. [The Economic Costs of Conflict: A Case Study of the Basque Country](#). *American Economic Review*, 93(1): 113-132.

Recommended:

- Abadie, Alberto, Alexis Diamond, and Jens Hainmueller. 2010. [Synthetic Control Methods for Comparative Case Studies: Estimating the Effect of California's Tobacco Control Program](#). *Journal of American Statistical Association* 105(490):493-505.
- Horiuchi, Yusaku and Asher Mayerson. N.d. [The Opportunity Cost of Conflict: Statistically Comparing Israel and Synthetic Israel](#). *Political Science Research and Methods*, Forthcoming.
- Lyall, Jason. 2010. Are Coethnics [More Effective Counterinsurgents? Evidence From The Second Chechen War](#). *American Political Science Review* 104(1):1-20
- *** [Synthetic Control](#)

Week 24: Computational Social Science – Machine Learning and Textual Analysis

Readings:

- Wallach, Hanna. "[Computational social science ≠ computer science + social data](#)." *Communications of the ACM* 61.3 (2018): 42-44.
- Grimmer, Justin, and B. M. Stewart. "Text as data: The promise and pitfalls of automatic content analysis methods for Political Texts." *Political Analysis*, 21(3), (2013): 267-297.

Recommended:

- Lowe, Will, Kenneth Benoit, Slava Mikhaylov, and Michael Laver. "[Scaling policy preferences from coded political texts](#)." *Legislative studies quarterly* 36, no. 1 (2011): 123-155.
- Roberts, Margaret E., Brandon M. Stewart, Dustin Tingley, and Edoardo M. Airoidi. "[The structural topic model and applied social science](#)." In *Advances in Neural Information Processing Systems Workshop on Topic Models: Computation, Application, and Evaluation*. 2013.
- Slapin, Jonathan B., and Sven-Oliver Proksch. "[A scaling model for estimating time-series party positions from texts](#)." *American Journal of Political Science* 52, no. 3 (2008): 705-722.

Week 25: Regression Discontinuity Design (RDD)

Readings:

- *Angrist and Pischke*, chapter 6
- Eggers, Andrew, Anthony Fowler, Jens Hainmueller, Andrew Hall, and James Snyder. 2015. "[On the Validity of the Regression Discontinuity Design for Estimating Electoral Effects: New Evidence from Over 40,000 Close Races](#)." *American Journal of Political Science* 59(1): 259-274.

Recommended:

- Dell, Melissa. N.d. "[Trafficking Networks and the Mexican Drug War](#)." *American Economic Review*, Forthcoming
 - Hall, Andrew. 2015. "[What Happens When Extremists Win Primaries?](#)" *American Political Science Review* 109(1):18-42.
- *** [Regression Discontinuity Design](#)