Federal University of Pernambuco
Political Science Department
PS 015 - Replication and Transparency in Empirical Research
SUMMER 2016

Instructors: Dr. Dalson Figueiredo (dalson.figueiredo@ufpe.br) and Dr. Enivaldo Rocha (enivaldocrocha@gmail.com)

Time and Location: Wednesday, 14:00 - 18:00, CFCH, (PS dept, 14° flor), Maria Gorete Hall.

Office Hours:
Monday 8:00 - 11:30
Tuesday 8:00 - 11:30
Thursday 8:00 - 11:30

Course outline:
This course is an introduction to replication and transparency in Political Science empirical research. The course is organized in three sections. The first one provides an overview of basic mathematical notation and statistical reasoning. The second part will introduce the main features of reproducible research using Stata and other tools. The third section will cover linear regression applications and diagnostics using both simulation and replication.

Required readings:

- The TIER Documentation Protocol v2.0

Stata tutorials:

- Baum, Christopher F. 2006. An Introduction to Modern Econometrics Using Stata. Stata Press
- Cameron, Colin and Pravin Trivedi. 2010. Microeconometrics Using Stata. 2nd ed. Stata Press

Suggested readings:


Online resources:

- Github Training
- Software Carpentry
- Open Science Training Initiative
- Swirl
- Data Science Certificate
- Reproducible Research
- OpenIntro Statistics
- Implementing Reproducible Research
- The Workflow of Data Analysis Using Stata
- Manual of Best Practices
- http://emiguel.econ.berkeley.edu/teaching/12
- https://www.youtube.com/playlist?list=PL-XXv-cvA_iBN9JZND3CF91aouSHH9ksB
- BITSS
- PROJECT TIER HAVERFORD COLLEGE

Course evaluation:

There will be weekly assignments, a midterm exam and a final replication project. They will count toward the grade as follows.

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Assignments</td>
<td>25%</td>
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<tr>
<td>Midterm</td>
<td>25%</td>
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<tr>
<td>Replication project</td>
<td>50%</td>
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Exams: The midterm exam will be on Wednesday, May 25. The final replication project is due on Wednesday, July 6.