Rutgers, The State University of New Jersey
School of Social Work
Advanced Statistical Methods I: Applied Regression Analysis
19:910:638, Fall 2022

Class
Instructor: **Lenna Nepomnyaschy**, Associate Professor
Email: lennan@ssw.rutgers.edu
Bio: https://socialwork.rutgers.edu/faculty-staff/lenna-nepomnyaschy
Time: Tuesdays, 1:00 – 3:40 pm
Space: 120 Albany St., Classroom A

Required Lab
Instructor: **Addam Reynolds**, PhD Candidate
Email: addam.reynolds@rutgers.edu
Bio: https://socialwork.rutgers.edu/admissions/phd-admissions/student-profiles
Time: Wednesdays, 2:00 – 3:30 pm
Space: 120 Albany St., Classroom A

Course Overview
This course, the first of the statistics sequence for social work doctoral students, will focus on applied regression analysis and related multivariate methods. Linear regression will be covered in depth, including regression assumptions, model specification, diagnostics, interaction (moderation), and mediation (pathway) effects. Students will learn to use the Stata statistical package for all analyses and class assignments. Each homework assignment will build on the previous, with the final product being the back end of a journal-quality empirical paper for publication.

Required Software:
This course requires that students learn and use the **Stata Statistical Software Package** for hands-on data analysis and statistics applications for class assignments.

- Stata is available for all employees (GRAs, staff, faculty) for free download from the OIRT software portal: https://software.rutgers.edu/
- Stata is available to all students in any Rutgers computer lab as well as the Doctoral Student Computer lab in the SSW Annex AND in the Virtual Computer Lab through Rutgers Libraries: https://labgateway.rutgers.edu/
- Students may also purchase their own version of Stata at discounted rates through the Rutgers Office of Instructional Technology (Stata SE: student annual rate: $179) http://www.stata.com/order/new/edu/gradplans/gp-direct.html
  BEFORE MAKING ANY SOFTWARE PURCHASE, CONTACT PROFESSOR

Required Texts (3)

- **(LB)** Lewis-Beck, C. & Lewis-Beck, M. 2016. *Applied Regression: An Introduction (2nd edition)*. Newbury Park, CA: Sage Publications. ***Pretty cheap to purchase ($20), BUT also available for free online through Rutgers Libraries***. https://dx-doi-org.proxy.libraries.rutgers.edu/10.4135/9781483396774

- **(MJ)** Mehmetoglu, M. & Jakobsen, T.G. 2016. *Applied Statistics Using Stata: A Guide for the Social Sciences*. Sage Publishing. ***Not available online, need to purchase ($35).*** *Student Resources (access with Rutgers Netid):* https://study-sagepub-com.proxy.libraries.rutgers.edu/mehmetogluandjakobsen/student-resources

- **(SW)** Stock, J. & Watson, M. 2020. Introduction to Econometrics, 4th ed. Pearson Education. ***Full text free online w/clickable chapters. Do not purchase***: https://www.sea-stat.com/wp-content/uploads/2020/08/James-H.-Stock-Mark-W.-Watson-Introduction-to-Econometrics-Global-Edition-Pearson-Education-Limited-2020.pdf

Supplementary Resources and Texts
More In-Depth Applied Regression & Introductory Econometrics Texts
Gelman, A., Hill, J. & Vehtari, A. 2021. *Regression and Other Stories*. Cambridge University Press. (*This book is **good** – a little more than you are ready for at first, but could be a primary resource as you go forward. It is fully available for free online')* https://users.aalto.fi/~ave/ROS.pdf

Wooldridge, J. 2006. *Introductory Econometrics: A Modern Approach*, 3rd edition. Mason, OH: Thompson. (*The bible of econometrics*)

Writing about Quantitative Analysis
Miller, Jane E., 2013. *The Chicago Guide to Writing about Multivariate Analysis (2nd Edition)*. The Chicago Guides to Writing, Editing, and Publishing. University of Chicago Press.
> Study guide: http://www.press.uchicago.edu/books/miller/multivariate/index.html
> ***THIS IS SUPER HELPFUL***
> *See Jane Miller's website for pdfs, videos and other material:*
> http://policy.rutgers.edu/faculty/miller/

Specialized Regression Topics
Jaccard, J. & Turrisi, R. 2003. *Interaction Effects in Multiple Regression* (2nd Edition). Thousand Oaks, CA: Sage Publications. ISBN: 0761927425. (*Highly useful)*
Available online through Rutgers Libraries:
https://methods-sagepub-com.proxy.libraries.rutgers.edu/book/interaction-effects-in-multiple-regression?fromsearch=true

Hardy, Melissa. 1993. *Regression with Dummy Variables*. Newbury Park, CA: Sage Publications. *Available online through Rutgers Libraries:*
https://dx-doi-org.proxy.libraries.rutgers.edu/10.4135/9781412985628

General Stata Books
- Hamilton, L.C. 2006. *Statistics with Stata*, 6th edition. Cengage.
- Long, S.J. 2009. *The Workflow of Data Analysis Using Stata*. College Station, TX: Stata Press.
- Kohler, U. & Kreuter, F. 2009. *Data Analysis Using Stata* (2nd ed). College Station, TX: Stata Press.
- Mitchell, M. 2010. *Data Management Using Stata: A Practical Handbook*. College Station, TX

Course Requirements

Students' work will be evaluated based on the following course requirements (detailed instructions to follow).

Homework Assignments (4 total) = 40%

There will be **FOUR (4)** homework assignments, which will be based on the skills and concepts introduced during class and lab and on the required readings. Assignments will include writing syntax to create Stata output from a dataset, creating tables and graphs from output, interpreting output, and writing up methods and results of analyses. Assignments will build on one another leading to the final assignment that will include most of the previous elements.

Homework #1: Univariate descriptive analysis & writing up descriptive analysis
Estimating, interpreting, and writing up results from descriptive tables
Homework #2: Multiple Regression
Writing a methods section and estimating, interpreting, and writing up results from a series of multiple regression models with continuous dependent variables
Homework #3: Interpreting Interaction Effects Exercise
Interpreting interaction effects (moderation) models with continuous dependent variables
Homework #4: Estimating & Interpreting Interaction Effects in Your Models
Estimating, interpreting, and writing up results from interaction effects (moderation) models with continuous dependent variables

Final Assignment = 40%

The final assignment will consist of a complete data analysis project which will build on all the prior homework assignments. Analyses will include descriptive results, estimation of multiple linear regression models and interaction effects models with a continuous outcome. The written assignment will take the form of the ***Methods, Results, and*** (brief) ***Discussion*** sections of a journal-style quantitative empirical paper. Students will describe their data, sample, measures, and analytic strategy, describe the sample characteristics, interpret results from their bivariate and multiple regression models, and provide a brief discussion of the answer to their question and of the limitations of their analyses related to violations of regression assumptions and other sources of bias.

Participation in Class Activities = 20%

This portion of the grade is made up of several components:
- In-class activities – small group work with peers to workshop student submitted preliminary tables, small group work on interpreting and discussing sample papers, small group work on interpreting results from sample models

- Presentation of Final Assignment - students will present a working draft of their final assignment to the class in a PowerPoint presentation in order to receive feedback and provide feedback for peers regarding analyses and next steps (10-minute presentations, similar to a conference presentation).

It goes without saying that students are expected to attend every class, come to class on time, remain in class for the entire session, and to be prepared for class having read the required readings and submitted the required materials (if something is due). While there is not specific course credit associated with attendance, absences, being late to class, and lack of participation and preparation will substantially impact students' overall grades.

If, for some reason, class has to be held in a virtual (zoom) setting, students are similarly expected to join the session on time, stay for the entire session, participate in discussions and breakout exercises, and must have their cameras on. If there is some reason that a student cannot have their camera turned on, they must inform the professor prior to class.

Grading
Grade cut-offs are as follows (scores of 0.5 and above will be rounded up):

A	92-100
B+	87-91
B	82-86
C+	77-81
C	70-76
F	0-69

Applied Regression, Fall 2022 Outline of Class & Lab Topics & Homework Due Dates

Week & Date	Class & Lab Topics & Activities	Assignment DUE Dates & Topics
Week 1: 9/6/22	Class: Intro to Class & to the Fragile Families Study *Class Activity:* **Discussion of choosing a question to answer this semester & the FF Data** Lab: Intro to Stata & to FF data	
Week 2: 9/13/22	Class: Intro to Quantitative Analysis & Current Issues in Quantitative Methods *Class Activity:* **Discussion of issues in quantitative analyses & students' research questions** Lab: Intro to Stata & Variable Construction	
Week 3: 9/20/22	Class: Quantitative Analyses & Descriptive Statistics *Class Activity:* **Discussion of sample papers** Lab: Cont'd variable construction & descriptive statistics	
Week 4: 9/27/22	Class: Bivariate Analysis & Intro to Linear Regression *Class Activity:* **Discussion of sample papers, methods section of empirical paper & Homework #1** Lab: Cont'd variable construction & bivariate analysis	
Week 5: 10/4/22	Class: Bivariate Linear Regression *Class Activity:* **Calculating bivariate regression coefficients** Lab: Cont'd variable construction & bivariate regression	
Week 6: 10/11/22	Class: Bivariate Regression Cont'd *Class Activity:* **Group workshopping of descriptive tables** Lab: Cont'd variable construction & bivariate regression	*Submit descriptive tables - day prior*
Week 7: 10/18/22	Class: Dummy Variables & Mutliple Regression *Class Activity:* **Interpreting regression coefficients** Lab: Multiple Regression	*HW #1: Revised Descriptive Tables due*
Week 8: 10/25/22	Class: Multiple Regression Cont'd *Class Activity:* **Discussion of regression models in sample papers** Lab: Multiple regression & tabling regression output	
Week 9: 11/1/22	Class: Multiple regression Cont'd *Class Activity:* **Group workshopping of multiple regression tables** Lab: Multiple regression & creating figures	*Submit multiple regression tables - prior day*
Week 10: 11/8/22	Class: Interaction Effects *Class Activity:* **Interaction effects practice** Lab: Interaction Effects	*HW#2: Revised Multiple Regression Models Due*
Week 11: 11/15/22	Class: Interaction Effects Cont'd *Class Activity:* **Interaction effects practice** Lab: Interaction Effects	
Week 12: 11/22/22	Class: Wrap Up Interaction Effects *Class Activity:* **Group workshopping of interaction effects tables** Lab: Interaction Effects	*Submit interaction tables/exercises - prior day*
Week 13: 11/29/22	Class: Catch up and review *Class Activity:* **Discuss Sample Papers** Lab: Final Assignment	*HW #3: Interaction Effects Models Due*
Week 14: 12/6/22	**Class: Student Presentations** Lab: Final Assignment	*Students present & respond to peers*
Week 15: 12/13/22	Class: Wrap Up & Discussion of Results of Analyses Lab: Final Assignment	*Final Assignment Due (Friday)*

Detailed Course Outline

Please note*: In addition to the required readings for each week, there are sample empirical articles listed (some TBA). I will be adding (or substituting) relevant peer-reviewed empirical papers that use the various methods that we are covering as we go. Thus, each week there may be alternate journal articles that students will be required to read.*

Week 1: September 6, 2022

Topics: Intro to Course & Intro to Fragile Families Study
- Overview of course
- Discuss the FF Study & potential areas of interest

Required Reading:
- Review syllabus
- Start to explore the Fragile Families & Child Wellbeing Study website (*About*, *Data & Documentation*): https://fragilefamilies.princeton.edu/
- Fragile Families Study Fact Sheet: Key Findings from Baseline to the 5-year Follow-Up https://fragilefamilies.princeton.edu/sites/g/files/toruqf2001/files/ff_fact_sheet.pdf
- (**skim this**) Reichman, N., Teitler, J., Garfinkel, I. & McLanahan, S. 2001. Fragile Families: Sample and Design. *Children and Youth Services Review* 23 (4/5): 303–26. https://doi.org/10.1016/S0190-7409(01)00141-4.

In-Class Activity:
Discussion of choosing a dataset for course assignments & the Fragile Families Data

Week 2: September 13, 2022

Topics: Intro to quantitative analysis & current issues in quantitative analysis
- Legacy of racial and social injustice in quantitative analysis
- Replication crisis in science

Required Readings:
- Boyd, R., Lindo, E., Weeks, L. & McLemore, M. 2020. On Racism: A new Standard for Publishing on Racial Health Inequities. *Health Affairs Blog*. https://www.healthaffairs.org/do/10.1377/hblog20200630.939347/full/
- Zuberi, T. & Bonilla-Silva, E. 2008. *White Logic, White Methods: Racism & Methodology*. Rowman & Littlefield. ***Introduction (p. 1-16). Full book available free online through RU Library.*** https://ebookcentral-proquest-com.proxy.libraries.rutgers.edu/lib/rutgers-ebooks/detail.action?pq-origsite=primo&docID=1343788
- Piper, Kelsey. 10/14/2020. Science has been in a replication crisis for a decade. Have we learned anything? Vox.com. (***Excellent links to all the key papers in this area***) https://www.vox.com/future-perfect/21504366/science-replication-crisis-peer-review-statistics
- Continue to explore FF data & website (*Scales & Concepts Documentation*, *Publications*)

In-Class Activity:
Discussion of issues in quantitative analysis & discussion of students' research questions

Suggested Reading
See section in our canvas course shell on anti-racist research & statistics resources:
https://rutgers.instructure.com/courses/196721/pages/anti-racist-research-resources?module_item_id=6751284

Week 3: September 20, 2022
Topics: Introduction to quantitative analysis & descriptive statistics
- Types of Data, Types of Variables
- Concepts, Examples, Terminology
- Introduction to Regression

Required Readings:
- MJ: Chapter 1: Research and Statistics, (p. 1-15)
- SW: Chapter 1: Economic Questions & Data (p. 43-55)
- Gordon, Chapter 5: Basic Descriptive Statistics, Types of Variables (p. 97 – 123)
- Continue to explore the Fragile Families data & website

Sample Papers – Read Abstracts Only
- Turney, K. (2021). Depressive Symptoms among Adolescents Exposed to Personal and Vicarious Police Contact. *Society and Mental Health*, *11*(2), 113–133. https://doi.org/10.1177/2156869320923095
- Haralampoudis, A., Nepomnyaschy, L., & Donnelly, L. (2021). Head Start and Nonresident Fathers' Contributions to Children. *Journal of Marriage and Family*, *83*(3), 699–716. https://doi.org/10.1111/jomf.12756
- Gold, S., & Nepomnyaschy, L. (2018). Neighborhood Physical Disorder and Early Delinquency Among Urban Children. *Journal of Marriage and Family*, *80*(4), 919–933. https://doi.org/10.1111/jomf.12487
- James, C., Jimenez, M. E., Wade Jr, R., & Nepomnyaschy, L. (2021). Adverse Childhood Experiences and Teen Behavior Outcomes: The Role of Disability. *Academic Pediatrics*, *21*(8), 1395–1403. https://doi.org/10.1016/j.acap.2021.05.006
- Nepomnyaschy, L., Emory, A. D., Eickmeyer, K. J., Waller, M. R., & Miller, D. P. (2021). Parental Debt and Child Well-Being: What Type of Debt Matters for Child Outcomes? *RSF: The Russell Sage Foundation Journal of the Social Sciences*, *7*(3), 122–151. https://doi.org/10.7758/RSF.2021.7.3.06

In-Class Activity:
Discussion of sample papers
- Identify the questions papers are asking
- Identify dependent & independent variables
- Draw out conceptual diagrams

Suggested Readings:
- *Reviews of Probability and Inferential Statistics (this should all be a review from your summer stats course)*

o SUPER helpful and simple review of probability, inferential statistics, hypothesis testing: https://pressbooks.bccampus.ca/statspsych/chapter/chapter-4/
o Stock & Watson (SW), Chapter 2: Review of Probability & Chapter 3: Review of Statistics.

Week 4: September 27, 2022
Topics: Bivariate Analysis & Intro to Linear Regression

Required Readings:
- MJ: Chapter 2: 2nd half of chapter, Descriptive Statistics & Bivariate Inferential Statistics, p. 31-43.
- Continue to explore FF data & website
- How to read an empirical paper
- White, L. 2005. Writes of Passage: Writing an Empirical Journal Article. *Journal of Marriage and Family* 69: 791-798*. (Start from methods section, p. 793)*
- Review Homework #1 assignment

Sample papers: Read Measures Section & Descriptive Tables only
- Turney, K. (2021). Depressive Symptoms among Adolescents Exposed to Personal and Vicarious Police Contact. *Society and Mental Health*, *11*(2), 113–133. https://doi.org/10.1177/2156869320923095
- Haralampoudis, A., Nepomnyaschy, L., & Donnelly, L. (2021). Head Start and Nonresident Fathers' Involvement with Children. *Journal of Marriage and Family*, *83*(3), 699–716. https://doi.org/10.1111/jomf.12756
- Gold, S., & Nepomnyaschy, L. (2018). Neighborhood Physical Disorder and Early Delinquency Among Urban Children. *Journal of Marriage and Family*, *80*(4), 919–933. https://doi.org/10.1111/jomf.12487
- James, C., Jimenez, M. E., Wade Jr, R., & Nepomnyaschy, L. (2021). Adverse Childhood Experiences and Teen Behavior Outcomes: The Role of Disability. *Academic Pediatrics*, *21*(8), 1395–1403. https://doi.org/10.1016/j.acap.2021.05.006
- Nepomnyaschy, L., Emory, A. D., Eickmeyer, K. J., Waller, M. R., & Miller, D. P. (2021). Parental Debt and Child Well-Being: What Type of Debt Matters for Child Outcomes? *RSF: The Russell Sage Foundation Journal of the Social Sciences*, *7*(3), 122–151. https://doi.org/10.7758/RSF.2021.7.3.06

In-Class Activity
- Discuss descriptive results from sample papers
- Discuss structure of the methods section of an empirical paper
- Review Homework #1 Assignment

Week 5: October 4, 2022
Topic: Bivariate Linear Regression
- Introduction and overview of regression analysis
- Calculating bivariate regression coefficients

Required Readings:

- LB: Chapter 1: Bivariate Regression: Fitting a Straight Line (*p. 1 – 22*)
- MJ: Chapter 3: Simple Bivariate Regression (*p. 45 – 54 only*)
- SW: Chapter 4: Linear Regression w/One Regressor (*p. 143-155 only*)

In-Class Activity:
- Calculating bivariate regression coefficients & creating formulas in excel

Week 6: October 11, 2022
Topics: Bivariate regression continued
- Interpreting bivariate regression coefficients
- Hypothesis Testing
- Predictions w/bivariate regression

DUE: Submit preliminary descriptive tables for group workshopping exercise, day prior

Required Readings:
- SW: Chapter 5: Hypothesis Tests & Confidence Intervals (p. 178-188 ONLY)
- McShane, B., Gal, D., Gelman, A., Robert, C. & Tackett, J. 2019. Abandon Statistical Significance. *The American Statistician* 70:S1 (p. 235-241 *ONLY)* https://www.tandfonline.com/doi/full/10.1080/00031305.2018.1527253
- (**SKIM THIS**) Resnick, Brian. 2017. What a nerdy debate about p-values shows about science – and how to fix it. The Case for, and against, redefining "statistical significance." Vox. https://www.vox.com/science-and-health/2017/7/31/16021654/p-values-statistical-significance-redefine-0005

Sample papers: Read Methods section: Data, Sample, Measures, Analytic Strategy
- Turney, K. (2021). Depressive Symptoms among Adolescents Exposed to Personal and Vicarious Police Contact. *Society and Mental Health*, *11*(2), 113–133. https://doi.org/10.1177/2156869320923095
- Haralampoudis, A., Nepomnyaschy, L., & Donnelly, L. (2021). Head Start and Nonresident Fathers' Involvement with Children. *Journal of Marriage and Family*, *83*(3), 699–716. https://doi.org/10.1111/jomf.12756
- James, C., Jimenez, M. E., Wade Jr, R., & Nepomnyaschy, L. (2021). Adverse Childhood Experiences and Teen Behavior Outcomes: The Role of Disability. *Academic Pediatrics*, *21*(8), 1395–1403. https://doi.org/10.1016/j.acap.2021.05.006

In-Class Activity:
- Workshopping of descriptive tables
- Discussion of writing up Methods section & review of Methods sections in sample papers

Suggested Readings:
- LB: Chapter 2: Bivariate Regression: Assumptions and Inferences: (*2nd part: p. 29 – 53 ONLY).*

- MJ: Chapter 3: Simple Bivariate Regression (*p. 54 – 65 ONLY*)

Week 7: October 18, 2022
Topic: Regression w/Dummy Variables & Multiple Regression
- Binary & categorical independent variables (dummy variables)
- Introduction to multiple regression

DUE: Homework #1: Descriptive Statistics & Variable Description

Required Readings:
- MJ: Chapter 5: Regression with Dummy Variables
- MJ: Chapter 4: Multiple Regression
- LB: Chapter 3: Multiple Regression (p**. 55 – 74**).

Sample papers: TBA

Suggested Readings:
- Hardy, M. 1993. *Regression with Dummy Variables*, Chapters 1, 2, and 3 (p. 1 – 28)

In-Class Activity
- Interpreting regression coefficients

Week 8: October 25, 2022
Topic: Multiple Regression Continued
- Model specification
- Predictions in multiple regression
- Magnitude of effects
- Rescaling and transforming variables for interpretation
- Mediation & Confounding

Required Readings
- (LB) Lewis-Beck. Chapter 4: Multiple Regression: Special Topics (p. 75-95)
- Gordon, Chapter 13: Indirect Effects and Omitted Variable Bias (p. 461 – 480)
- Miller, Chapter 9: Quantitative Comparisons for Multivariate Models (*p. 193 – 199 ONLY*)
- Miller, Chapter 10: The Goldilocks Problem in Multivariate Regression (*p. 211 – 229*)
- Moksony, Ferenc. 1999. Small is Beautiful. The Use and Interpretation of R-Squared in Social Science Research. *Review of Sociology*.
- Why we don't really care about the Rsquared in Social Science Research? July 3, 2018. The Medium. https://medium.com/@vince.shields913/why-we-dont-really-care-about-the-r-squared-in-econometrics-social-science-593e2db0391f

Sample Papers: Look at regression model tables & Read Results Section
- Turney, K. (2021). Depressive Symptoms among Adolescents Exposed to Personal and Vicarious Police Contact. *Society and Mental Health*, *11*(2), 113–133. https://doi.org/10.1177/2156869320923095
- Haralampoudis, A., Nepomnyaschy, L., & Donnelly, L. (2021). Head Start and Nonresident Fathers' Involvement with Children. *Journal of Marriage and Family*, *83*(3), 699–716. https://doi.org/10.1111/jomf.12756
- James, C., Jimenez, M. E., Wade Jr, R., & Nepomnyaschy, L. (2021). Adverse Childhood Experiences and Teen Behavior Outcomes: The Role of Disability. *Academic Pediatrics*, *21*(8), 1395–1403. https://doi.org/10.1016/j.acap.2021.05.006

In-class Activity:
Review & discuss regression models in sample papers

Week 9: November 1, 2022
Topic: Multiple Regression continued
- Regression Assumptions
- Nonlinear Relationships
- Regression Diagnostics

Required Readings:
- MJ, Chapter 7: Linear Regression Assumptions & Diagnostics
- LB, Chapter 2: Bivariate Regression: Assumptions and Inferences, *(1ˢᵗ PART ONLY, p. 23 – 29).*
- Gelman et al. Chapter 11: Assumptions, Diagnostics & Model evaluation: (2 pages only: p. 153-155).
- SW: Chapter 8: Nonlinear Regression Functions (**1ˢᵗ part only: p. 277-296**)

DUE: Submit preliminary multiple regression tables for group workshopping exercise, day prior

In-Class Activity:
- Interpreting multiple regression coefficients & workshopping multiple regression tables

Suggested Readings
- Gordon, Chapter 12: Nonlinear Relationships (p. 434 – 456)
- Gordon, Chapter 14: Outliers, Heteroskedasticity, and Multicollinearity (p. 481-520).
- Studenmund, Chapter 11: Running Your Own Regression Project, Practical Advice for Your Project (p. 383 – 393).
  AND A Regression User's Checklist and Guide, (p. 395 – 400).

Week 10: November 8, 2022
Topic: Introduction to Interaction Effects (moderation)

DUE: Homework #2: Multiple Regression Models, Methods Section & Results

Required Readings
- MJ: Chapter 6: Interaction/Moderation Effects Using Regression
- SW: Chapter 8: Interactions Between Independent Variables (**2nd Part only**: p. 297-316)

In-Class Activity:
Interaction effects interpretation

Supplementary Reading:
- Jaccard & Turrisi, *Interaction Effects in Multiple Regression*: Chapters 1 and 2, (p. 1 - 43). *very helpful – strongly recommended*
- Gordon, Chapter 11: Interaction Effects.

Week 11: November 15, 2022
Topic: Interaction Effects cont'd

Required Readings:
- Miller, Chapter 16: Writing About Interactions (p. 339 – 365).
- SW: Chapter 9: Assessing Studies Based on Multiple Regression (p. 330-354)
- J.E. Miller and Y.V. Rodgers, 2008. "Economic Importance and Statistical Significance: Guidelines for Communicating Empirical Research." *Feminist Economics*. 14(2):117-149.

Sample papers: TBA

In-Class Activity:
- Interaction Effects Practice – sample papers

Week 12: November 22, 2022
Topic: Interaction effects wrap up

DUE: Interaction Effects Preliminary Tables for Group Workshopping Exercise, Day Prior

In-Class Activity:
- Workshopping interaction effects tables

Week 13: November 29, 2022
Topic: Catch up & Review Sample Papers

DUE: Homework #3: Interaction Effects Models

Sample papers: TBA

<u>In-Class Activity</u>
- Review results of sample papers

Week 14: December 6, 2022
STUDENT PRESENTATIONS OF FINAL ASSIGNMENT

Week 15: December 13, 2022
Topic: Wrap up & Discussion of Final Assignments & Next Steps

FINAL ASSIGNMENT DUE, Friday