

POL8120: Core Course in Political Methodology:  
Modeling Political Processes, Spring 2013  
1383 Social Sciences Building  
Mondays, 11:00-12:55pm

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This course surveys applications of natural science methods in the analysis of normatively significant political problems. Its unifying themes are the EITM (Empirical Implications of Theoretical Models) project of the National Science Foundation and the promise of policy relevant research on important topics like electoral law enforcement and conflict early warning. We begin with a study of mathematical reasoning in political science. We review models of unitary political decision making and of strategic choice in two person and n-person settings. Agent-based, computational modeling also is reviewed. We then turn to empirics. Measurement, randomized experimentation in observational and laboratory research, modeling of micro and macro political processes, and cross-level inference are studied in this third part. In the conclusion, efforts to join mathematical, statistical, and computational approaches are studied. Applications from the fields of American, Comparative, and International Politics are included in each week's readings.

The weekly breakdown of topics is as follows:

*Part One: Motivation*

- I. Introduction and organization
  - II. The EITM project and the promise of policy relevant political analysis
- Part Two: Political theorizing through mathematics*
- III. Models of political decision making
  - IV. Strategic decision making in "two person" settings
  - V. Collective decision making part one: models of social choice
  - VI. Collective decision making part two: agent based (computational) models
- Part Three: Statistical testing of political arguments*
- VII. Missing data and measurement
  - VIII. Causal inference and research design, part one: observational studies
  - I X. Causal inference and research design, part two: laboratory and survey experiments
- X. Analyzing micro political processes
  - XI. Analyzing macro political processes
  - XII. Cross level political inference
- Part Four: Topics*
- XIII. Models of political economy
  - XIV. Bayesian approaches to political analysis

Students are required to complete all the required reading for the course and to write two papers. The first is a critical review of a selection of readings for one of the weeks in Parts Two (weeks III-VI) or Three (weeks VII-XII). The second paper is a research design for an application of a method studied in the course. If this method comes from Part Two, students are urged to write their first paper on readings from Part Three. If the

second paper is a design for an application of a method from Part Three, ideally, the first paper should be a critical evaluation of work in a week in Part Two.

In addition, all students also are required to present one reading in class and to write a final examination that covers the required reading for the entire course.

The final grade for the seminar will be weighted roughly as follows: class participation-15%, paper one--25%, paper two—25%, and final examination—35%.

NB. Many of the assigned readings and some of the recommended readings are available in a box in the computer lab on the 12<sup>th</sup> floor. All the assigned reading from books (denoted by +) are available in this box. Of course, most journal articles can be accessed (obtained) through the library or jstor.

### *Part One: Motivation*

#### **I. Introduction and organization**

[Jan. 28]

#### **II. The EITM project and the promise of policy relevant political analysis**

[February 4]

#### **Required**

+Clarke, Kevin A. and David M. Primo (2012) “Conclusion” Chapter 7  
in A Model Discipline: Political Science and the Logic  
of Representations NY: Oxford University Press, pps. 168-181.

Granato, Jim et. al (2011) “A Framework for Unifying Formal and Empirical  
Analysis” American Journal of Political Science 54(3): 783-797.

Imai, Kosuke (2005) “Do Get-Out-The Vote Calls Reduce Turnout? The  
Importance of Statistical Methods for Field Experiments” American  
Political Science Review 99(2): 283-300

#### **Required, read at least one of the following:**

Brady, Henry et. al (2001) “Law and Data: The Butterfly Ballot Episode” PS:  
Political Science and Politics 24(1): 59-69.

Mebane, Walter, Jr. (2004) “The Wrong Man Is President! Overvotes in the  
2000 Presidential Elections in Florida,” Perspectives on Politics 2(3):525-536.

King, Gary and Langche Zeng (2001) “Improving Forecasts of State Failure”  
World Politics 53: 623-658.

## Recommended

Brandt, Patrick, John Freeman, and Phil Schrodt (2012) "Evaluating Forecasts of Political Conflict Dynamics." Revised version of a paper Originally presented at the 2011 Summer of Meeting of the Political Methodology Society, Princeton University. Available from instructor.

EITM: Empirical Implications of Theoretical Models (2002) Report to the Directors of the Social, Behavioral, and Economic Sciences, National Science Foundation, selections.

Goldstone et al (2011) "A Global Model for Forecasting Political Instability" American Journal of Political Science 54(1): 190-208.

Granato, James (2005) "Scientific Progress in the Study of Quantitative Political Economy" The Political Economist 12(4).

King, Gary and Langche Zeng (2001) "Logistic Regression in Rare Events Data" Political Analysis 9(2): 137-163

Krugman, Paul (1994) "The Fall and Rise of Development Economics." Unpublished manuscript. <http://web.mit.edu/krugman/www/>

Wand, Jonathan N. et al (2001) "The Butterfly Did It: The Aberrant vote for Buchanan in Palm Beach County, Florida" American Political Science Review 95(4): 793-810.

Ward, Michael D. et al (2010) "The perils of policy by p-values: Predicting civil Conflicts" Journal of Peace Research 47(4): 363-375

### *Part Two: Political theorizing through mathematics*

## III. Models of political decision making (rational choice and decision theory) [February 11]

### Required:

+Morrow, James D. (1994) "Utility Theory" Chapter Two in Game Theory for Social Scientists Princeton, NJ: Princeton University Press, pps. 16-50.

+Bendor, Jonathon et. al (2011) A Behavioral Theory of Elections, "Bounded Rationality and Elections," "Aspiration-Based Adaptive Rules," and "Turnout" Chapters 1,2, and 4 respectively. Princeton, NJ: Princeton University Press.

+Green, Donald P. and Ian Shapiro (1994) “The Paradox of Voter Turnout.” Chapter 4 in Pathologies of Rational Choice: A Critique of Applications in Political Science New Haven, CT: Yale University Press.

Cox, Gary (1999) “The Empirical Content of Rational Choice Theory: A Reply To Green and Shapiro,” Journal of Theoretical Politics 11: 147-169.

### **Recommended**

Downs, Anthony (1957) “Introduction” Chapter 1 in An Economic Theory of Democracy NY Harper and Row Publishers.

Feddersen, Timothy J. (2004) “Rational Choice Theory and the Paradox of Not Voting” Journal of Theoretical Perspectives 18(1): 99-112.

Quattrone, George A. and Amos Tversky (1988), “Contrasting Rational and Psychological Analyses of Political Choice” American Political Science Review 82(3): 719-736.

Satz, Debra and John Ferejohn (1994) “Rational Choice and Social Theory” Journal of Philosophy 91: 71-87.

Shepsle, Kenneth A. and Mark S. Bonchek (1997) Analyzing Politics: Rationality Behavior and Institutions NY: Norton.

Simon, Herbert A. (1985) “Human Nature in Politics: The Dialogue of Psychology With Political Science” American Political Science Review 79: 293-304.

Tversky, Amos and David Kahneman (1987) “Rational Choice and the Framing of Decisions.” In Rational Choice: The Contrast Between Economics and Psychology R. M. Hogarth and M.W. Reder editors. Chicago: University of Chicago Press.

### **IV. Strategic decision making in “two person” settings**

[February 18]

### **Required**

+Osborne, Martin J. (2004) An Introduction to Game Theory NY Oxford University Press: Chapters 1, 2, 4 (pps. 11-54, 99-152)

+Iversen, Torben (1999) “An Institutional Model of Economic Performance” Chapter 2 in Contested Economic Institutions NY: Cambridge University Press. [Including Iversen’s Appendix]

## **Recommended**

McCarty, Nolan and Adam Meirowitz (2007) Political Game Theory  
New York: Cambridge University Press.

Farrell, Joseph (1987) “Cheap Talk, Coordination, and Entry.” Rand Journal of Economics 18: 34-39

Richards, Diana (2001) “Coordination in Shared Mental Models” American Journal Of Political Science 45: 259-276.

Crawford, Vincent P. and Hans Heller (1990) “Learning How to Cooperate: Optimal Play in Repeated Coordination Games” Econometrica 58: 571-595.

Calvert, Randall L. (1995) “The Rational Choice Theory of Social Institutions: Cooperation, Coordination and Communication.” In Modern Political Economy: Old Topics, New Directions J.S. Banks and E. Hanushek (eds) NY: Cambridge University Press.

Przeworski, Adam and Michael Wallerstein (1982) “The Structure of Class Conflict In Democratic Capitalist Societies” American Political Science Review 76: 215-238.

## **V. Collective decision making, part one**

[February 25]

### **Required**

+Aldrich, John H. (1995) Why Parties? Chicago, Ill. University of Chicago Press, Chapters 1 and 2

Diermeier, Daniel and Keith Krehbiel (2003) “Institutionalism as a Methodology” Journal of Theoretical Politics 15(2): 123-144.

Hinich, Melvin and Michael Munger (1997) Analytic Politics NY: Cambridge University Press, Chapters 2, 3, 5 (pps. 21-72; 90-114)

Riker, William (1980) “Implications from Disequilibrium of Majority Rule for The Study of Institutions” American Political Science Review 74: 432-446.

Shipan, Charles and Ferejohn, John and (1990) “Congressional Influence on Bureaucracy” Journal of Law, Economics and Organizations 6: 1-21.

## Recommended

- Arrow, Kenneth J. (1963) Social Choice and Individual Values Second Edition. New Haven, CT Yale University Press.
- Baldez, Lisa and John M. Carey (2002) "Budget Procedure and Fiscal Restraint in Post Transition Chile." Chapter 4 in Presidents, Parliaments, and Policy Stephan Haggard and Matthew McCubbins editors. NY: Cambridge University Press.
- Besley, Timothy and Stephen Coate (1997) "An Economic Model of Representative Democracy" Quarterly Journal of Economics (February): 85-114.
- McKelvey, Richard D. (1976) "Intransitivities in Multidimensional Voting Models And Some Implications for Agenda Control" Journal of Economic Theory 2:472-482.
- Laver, Michael and Kenneth Shepsle (1997) Making and Breaking Governments: Cabinets and Legislatures in Parliamentary Democracies NY: Cambridge University Press.
- Osborne, Martin J. and Al Slivinski (1996) "A Model of Political Competition With Citizen-Candidates" The Quarterly Journal of Economics (February): 65-96.
- Roemer, John E. (2001) Political Competition: Theories and Applications Cambridge, MA: Harvard University Press.
- Schwartz, Thomas (1987) "Votes, Strategies, and Institutions: An Introduction to the Theory of Collective Choice." In Congress: Structure and Policy M. McCubbins and T. Sullivan editors.
- Romer, Thomas and Howard Rosenthal (1978) "Political Resource Allocation, Controlled Agendas, and the Status Quo" Public Choice 33(4): 27-44.
- Shepsle, Kenneth A. (1986) "Studying Institutions: Some Lessons from the Rational Choice Approach" Journal of Theoretical Politics 1: 131-147.
- Shepsle, Kenneth A. (1986) "Institutional Equilibrium and Equilibrium Institutions" In Political Science: The Science of Politics H. Weisberg ed. NY: Agathon.
- Stone, Randall, Branislav L. Slantchev, and Tamar R. London (2008). "Choosing How to Cooperate: A Repeated Public Goods Model of International Relations" International Studies Quarterly 52: 335-362.

**VI. Collective decision making, part two [computational approaches methods]**  
[March 4]

**Required**

+Bendor et al. (2011) “An Integrated Model of the Two Party System” Chapter 6  
In A Behavioral Theory of Elections op. cit.

Golder, Matt et. al (2012) “Modeling the Institutional Foundation of Parliamentary  
Government Formation” Journal of Politics 74(2): 427-445.

Jones, Brad et. al.(1995) “Condorcet Winners and the Paradox of Voting: Probability  
Calculations for Weak Preference Orderings” American Political Science Review  
89(1): 137-147.

One of the following two articles:

Bhavnani, Ravi and David Backer (2000) “Localized Ethnic Conflict and Genocide:  
Accounting for Differences in Rwanda,” Journal of Conflict Resolution June:  
283-306.

Cederman, Lars Erik (2001) “Modeling the Democratic Peace as a Kantian  
Selection Process” Journal of Conflict Resolution 45: 470-502.

**Recommended**

Axelrod, Robert (1984) The Evolution of Cooperation NY: Basic Books

Axelrod, Robert (1997) The Complexity of Cooperation Princeton, NJ  
Princeton University Press.

Banks, Jeffrey S. and Rangarajan K. Sundaram (1990) “Repeated Games, Finite  
Automata and Complexity” Games and Economic Behavior 2: 97-117.

Basu, Kaushik (1996) “Notes on Evolution, Rationality, and Norms” Journal of  
Institutional and Theoretical Economics 152: 739-750.

Bearce, David H. and Eric O’N. Fisher (2002) “Economic Geography, Trade, and  
War” Journal of Conflict Resolution 46(3): 365-393.

Bhavnani, Ravi (2003) “Adaptive Agents, Political Institutions, and Civic Tradition  
In Modern Italy,” Journal of Artificial Societies and Social Simulations 6(4).

Cederman, Lars Erik (1997) Emergent Actors: How States and Nations Develop  
And Dissolve Princeton NJ: Princeton University Press.

- Cederman, Lars Erik (2003) "Modeling the Size of Wars: From Billard Balls to Sandpiles" American Political Science Review 97: 135-150.
- De Marchi, Scott (1999) "Adaptive Models and Electoral Instability" Journal of Theoretical Politics 11(3): 393-419.
- De Marchi, Scott (2005) Lifting the Curse of Dimensionality: Computational Modeling in the Social Sciences NY Cambridge University Press.
- Jung, Danielle F. and David A. Lake (2012) "Markets, Hierarchies and Networks: An Agent-Based Organizational Ecology," American Journal of Political Science 55(4): 972-990.
- Kollman, Ken, John Miller and Scott Page (1992) "Adaptive Parties in Spatial Elections" American Political Science Review 86: 929-937.
- Kollman, Kenneth and Scott Page (2006) "Computational Methods and Modeling Politics" in Handbook of Computational Economics vol. 2 L. Tesfation and K. Judd Editors. *Pages 12-21*.
- Kollman, Kenneth, John Miller, and Scott Page (1998) "Political Parties and Electoral Landscapes" British Journal of Political Science 28: 139-158.
- Kranton, Rachel E. (1996) "Reciprocal Exchange: A Self-Sustaining System" American Economic Review 86: 830-851.
- Lustig, Ian et al (2004) "Succession and Multicultural States: Does Power Sharing Encourage It?" American Political Science Review 98(2): 209-229.
- Rubinstein, Ariel (1986) "Finite Automata Play Repeated Prisoner's Dilemma" Journal of Economic Theory 39: 83-96.
- Samuelson, Larry (1997) Evolutionary Games and Equilibrium Selection Cambridge, Ma. MIT Press.
- Young, Peyton H. (1993) "The Evolution of Conventions" Econometrica 61(1): 57-84.



*Part Three: Statistical testing of political arguments*

**VII. Missing data and measurement**

[March 11]

**Required**

King, Gary, James Honaker, Anne Joseph, and Kenneth Scheve (2001)  
“Analyzing Incomplete Political Science Data: An Alternative Algorithm for  
Multiple Imputation” American Political Science Review 95: 49-70.

**Also required: read two of the following**

Ahlquist, John and Christian Breunig (2011), “Model-Based Clustering and Typologies  
In the Social Sciences” Political Analysis 28(3): 588-616

Martin, Andrew and Kevin M. Quinn (2002) “Dynamic Ideal Point Estimation via  
Markov Chain Monte Carlo for the U.S. Supreme Court, 1953-1999”  
Political Analysis 10(2):134-153.

Treier, Shawn and Simon Jackman (2008) “Democracy as A Latent Variable”  
American Journal of Political Science 52(1) 201-217.

Zaller, John and Stanley Feldman (1992) “A Simple Theory of the Survey Response:  
Answering Questions Versus Revealed Preferences” American Journal of Political  
Science 36: 579-616.

**Recommended**

Bagozzi, Benjamin and Bumba Mukherjee (2012) “A Mixture Model for Middle  
Category Inflation in Ordered Survey Responses,” Political Analysis 20:369-386.

Berinsky, Adam (1999) “ The Two Faces of Public Opinion” American Journal of  
Political Science 43(4): 1209-1230.

Carroll, Royce et al (2009) “Measuring Bias and Uncertainty in DW-NOMINATE  
Ideal Point Estimates via the Parametric Bootstrap” Political Analysis 17(3): 261-275

Coppedge, Michael (2012) Democratization and Research Methods NY:  
Cambridge University Press.

Freeman, John R. (1989) “Systematic Sampling, Temporal Aggregation and the  
Study of Political Relationships,” Political Analysis vol 1, Ann Arbor, University  
Of Michigan Press, pps. 61-98.

Hollyer, James et al (2012), "Measuring Transparency"  
[http://www.tc.umn.edu/~jhollyer/HRV\\_indexpaperSSRNversion.pdf](http://www.tc.umn.edu/~jhollyer/HRV_indexpaperSSRNversion.pdf)

Hoyland, Bjorn and Harvard Mogleiv Nygard (2012) Non Random Missing Data  
In the Study of Civil Wars. Unpublished ms. Available from Instructor.

King, Gary and Jonathan Wand (2007) "Comparing Incomparable Survey Responses:  
Evaluating and Selecting Anchoring Vignettes" Political Analysis 15:46-66.

King, Gary et al. (2004) "Enhancing the Validity and Cross-Cultural Comparability of  
Measurement in Survey Research" American Political Science Review 98(1)  
191-207.

Little, Roderick J.A. and Donald B. Rubin (2002) Statistical Analysis with  
Missing Data 2<sup>nd</sup> edition. Hoboken, NJ: Wiley

Monroe, Burt L. and Philip a. Schrodt (2008) "Introduction to the Special Issue:  
The Statistical Analysis of Political Text" Political Analysis 16(4): 351-355.  
[Special issue contains articles by Lowe, Monroe et al, Bailey and Schonhardt-Bailey,  
Atteveldt et al, Klebanov et al. and Shellman,]

Peress, Michael (2009) "Small Chamber Ideal Point Estimation" Political Analysis  
17(3): 276-290.

Przeworski et. al. (2000) Democracy and Development: Political Institutions and  
Well-Being in the World 1950, 1990 NY Cambridge University Press, Introduction  
And Chapter 1 (pps. 1-77).

Treier, Shawn (2010) "Where Does the President Stand? Measuring Presidential  
Ideology" Political Analysis 18(1): 124-136

***Spring Break (no class March 18)***

**VIII. Causal Inference and Research Design Part One: Observational Studies**  
[March 25]

**Required**

Brady, Henry E. and John E. McNulty (2011) “Turning out the Vote: The Costs of Finding and Getting to the Polling Place” American Political Science Review 105(1): 115-134.

Ho, Daniel E., Kosuke Imai, Gary King and Elizabeth Stuart (2007) “Matching as Nonparametric Preprocessing for Reducing Model Dependence in Parametric Causal Inference” Political Analysis 15(3): 199-236.

Page, Scott (2006) “Path Dependence” Quarterly Journal of Political Science 1(1): 87-115.

Sekhon, Jasjeet and Rico Titiunik (2012) “When Natural Experiments are Neither Natural Nor Experiments” American Political Science Review 106(1): 35-57.

**If time permits read also,**

Imai, Kosuke, Luke Keele, Dustin Tingley, and Teppei Yamamoto, “Unpacking the Black Box of Causality: Learning about Causal Mechanisms from Experimental And Observational Studies” American Political Science Review 105(4): 765-789.

**Recommended**

Arceneaux, Kevin et al (2006) “Comparing Experimental and Matching Methods Using a Large-Scale Voter Mobilization Experiment” Political Analysis 14: 37-62.

Baumoeller, Bear F. (2003) “Causal Complexity and the Study of Politics” Political Analysis 11:209-233.

Baumoeller, Bear F. and Gary Goertz (2000) “The Methodology of Necessary Conditions” American Journal of Political Science 44(4): 844-858.

Bowers, Jake et al (2012) “Reasoning About Interference Among Units.” Paper Presented at the Summer Meeting of the Political Methodology Society, Chapel Hill, NC.

Bullock, Will, Kosuke Imai, and Jacob N. Shapiro (2011) “Statistical Analysis of Endorsement Experiments: Measuring Support for Militant Groups in Pakistan” Political Analysis 19: 363-384.

- Daniel Ho et al. (2007) "Matching As Nonparametric Preprocessing for Reducing Model Dependence in Parametric Causal Inference" Political Analysis 15(1).
- Freeman, John R. (1983) "Granger Causality and the Time Series Analysis of Political Relationships" American Journal of Political Science 27(2): 327-358.
- Gaines, Brian J. and James H. Kuklinski (2011) "Experimental Estimation of Heterogeneous Treatment Effects Related to Self-Selection" American Journal of Political Science 55(3): 724-736.
- Geddes, Barbara (2003) Paradigms and Sand Castles: Research Design in Comparative Politics Ann Arbor: University of Michigan Press.
- Gingerich, Daniel W. 2009 "Corruption and Political Decay: Evidence from Bolivia" Political Analysis 4: 1-34.
- Glynn, Adam N. and Kevin M. Quinn (2011) "Why Process Matters for Causal Inference" Political Analysis 19(3): 273-286
- Hood, M.V., Quentin Kidd, and Irwin L. Morris (2008) "Two Sides of the Same Coin? Employing Granger Causality Tests in a Time Series Cross-Section Framework" Political Analysis 16(3): 324-344.
- Horiuchi, Yusaku, Kosuke Imai, and Naoko Taniguchi (2007) "Designing and Analyzing Randomized Experiments: An Application to A Japanese Election Survey Experiment" American Journal of Political Science 51(3): 669-687.
- Mahoney, James 2000 "Path Dependence in Historical Sociology" Theory and Society 29: 507-548.
- Political Analysis Special Issue (2012), 20(2). Review essay by Freeman and Jackson; Articles by Bednar et al ("Revised Path Dependence"), Franzese et al "Modeling History Dependence in Network-Behavior Coevolution", and Jackson and Kollman "Modeling, Measuring, and Distinguishing Path Dependence, Outcome Dependence, And Outcome Independence."
- Pierson, Paul (2004) Politics in Time: History, Institutions, and Social Analysis Princeton NJ: Princeton University Press.
- Ragin, Charles C. (1987) The Comparative Method Berkeley, Ca. University of California Press, Chapters 1-5 (pps. 1-84).
- Rosenbaum, Paul R. (2010) Design of Observational Studies Springer
- Sovey, A.J. and D.P. Green(2011) "Instrumental Variables Estimation in Political Science: A Readers Guide" American Journal of Political Science 55(1): 188-200.

## **IX Causal Inference and Research Design Part Two: Laboratory and Survey Experiments**

[April 1]

### **Required**

Druckman, James N. (2004) "Political Preference Formation: Competition, Deliberation And the (Ir)Relevance of Framing Effects." American Political Science Review 98(4): 671-686.

Gaines, Brian J. et al (2007) "The Logic of the Survey Experiment Reexamined" Political Analysis 15(1): 1-20

Hillygus, D. Sunshine (2012) "The Practice of Survey Research: Changes and Challenges" Chapter 2 in New Directions in Public Opinion Adam J. Berinsky editor, NY: Routledge.

Tomz, Michael and Robert P. van Houweling (2008) "Candidate Positioning and Voter Choice" American Political Science Review 102(3): 303-318.

### **If time permits, read also**

Druckman, James N., Jordan Fein, and Thomas J. Leeper (2012) "A Source of Bias in Public Opinion Stability" American Political Science Review 106(2): 430-454.

### **Recommended**

Druckman, James N. "Experiments" In Polling America: An Encyclopedia of Public Opinion Volume 2. S.J. Best and B.Radcliff eds. Westport, CT: Greenwood Publishing Company.

Friedman, Daniel and Shyam Sunder (1994) Experimental Methods: A Primer for Economists NY Cambridge University Press.

Green, Donald P. and Alan S. Gerber (2002) "Reclaiming the Experimental Tradition in Political Science." In Political Science: The State of the Discipline Third Edition, R. Milner and I. Katznelson eds. NY W.W.Norton and Company.

Hamman, John R. et al (2011) "An Experimental Investigation of Electoral Delegation and the Provision of Public Goods" American Journal of Political Science 55(4): 738-752

Hellwig, Timothy et al (2008) "The American Public and the Room to Mauever: Responsibility Attributions and Policy Efficacy in an Era of Globalization," International Studies Quarterly 52: 855-880.

Morton, Rebecca (1999) "Fundamentals of Empirical Evaluation" Chapter 4 in Methods and Models: A Guide to the Empirical Analysis of Formal Models in Political Science NY Cambridge University Press, pps. 101-141.

Tomz, Michael and Robert P. van Houweling (2009) "The Electoral Implications Of Candidate Ambiguity" American Political Science Review 103(1): 83-97

## **X. Analyzing micropolitical processes**

[April 8]

### **Required**

Bartels, Larry M. (2002) "Beyond Running Tally: Partisan Bias in Political Perceptions" Political Behavior 24(2): 117-150.

Nagler, Jonathan and R. Michael Alvarez (1998) "When Politics and Models Collide: Estimating Models of Multi-Party Elections" American Journal of Political Science 42: 55-96.

Signorino, Curtis S. (1999) "Strategic Interaction and the Statistical Analysis of International Conflict" American Political Science Review 93(2): 279-298.

Signorino, Curtis. S. and Kuzey Yilmaz (2003) "Strategic Misspecification in Regression Models" American Journal of Political Science 47(3): 551-566.

### **Recommended**

Alvarez, R. Michael and John Brehm (1995) "American Ambivalence Toward Abortion Policy" American Journal of Political Science 39: 1055-1082.

Imai, Kosuke and David A. van Dyk (2005) "A Bayesian Analysis of the Multinomial Probit Model Using Marginal Data Augmentation" Journal of Econometrics 124: 311-324

Imai, Kosuke and David A. van Dyk (2005) "MNP: R Package for Fitting the Multinomial Probit Model" Journal of Statistical Software 14(3): 1-32

Lewis, Jeffrey B. and Kenneth A. Schultz (2003) "Revealing Preferences: Empirical Estimation of a Crisis Bargaining Game with Incomplete Information." Political

Analysis 11(Fall): 345-367.

Nagler, Jonathan, R. Michael Alvarez, and Shaun Bowler (2000) "Issues, Economics, And the Dynamics of Multi-Party Elections" American Political Science Review 94: 131-149.

Nagler, Jonathan and R. Michael Alvarez (2000) "A New Approach for Modeling Strategic Voting in Multi-Party Elections" British Journal of Political Science 30-57-75.

Train, Kenneth (2009) Discrete Choice Methods With Simulation NY: Cambridge University Press. Second Edition.

## **XI. Analyzing macropolitical processes**

[April 15]

### **Required**

Bendor et. al (2011) op. cit. "An Integrated Model of Two Party-Elections"  
Chapter 6, pps. 132-160.

Siegel, David A. (2009) "Social Networks and Collective Action," American Journal of Political Science 53(1): 122-138.

### **Required also: Either**

Brandt, Patrick T., Michael Colaresi, and John Freeman, (2008) "The Dynamics Of Reciprocity, Accountability and Credibility." Journal of Conflict Resolution 52(3): 343-374.

### **Or, the following pair of articles**

Green, Donald, Brad Palmquist, and Eric Schickler (1998) "Macropartisanship: Replication and Critique" American Political Science Review 92(4): 883-900.

Erikson, Robert, Michael MacKuen, and James Stimson (1998) "What Moves Macropartisanship? A Reply to Green, Palmquist and Schickler" American Political Science Review 92(4): 901-912

## **Recommended**

Erikson, Robert, Michael MacKuen and James Stimson (2002) The Macropolity  
NY: Cambridge University Press.

Francisco, Ronald A. (1996) "Coercion and Protest: An Empirical Test in Two Democratic States" American Journal of Political Science 49(4): 1179-1204.

Freeman, John R., John T. Williams and Tse-min Lin (1989) "Vector Autoregression And the Study of Politics" American Journal of Political Science 327-358.

## **XII. Cross-level and multi-level inference**

[April 22]

### **Required**

King, Gary (1997) A Solution to the Ecological Inference Problem Princeton, NJ:  
Princeton University Press, Chapters 1, 2, and 10 (pps. 1-34; 199-216).

Kedar, Orit and W. Phillips Shively (2005) "Introduction to the Special Issue"  
And Jusko, Karen Long and W. Phillips Shively (2005) "Applying a Two-Step Strategy  
To the Analysis of Cross-National Public Opinion Data," both in Political Analysis  
13(4): 297-300 and 327-344, respectively.

Box Steffensmeier, Janet M. and Renee M. Smith (1996) "The Dynamics of Aggregate  
Partisanship," American Political Science Review 90(3): 567-580

Putnam, Robert (1988) "Diplomacy and Domestic Politics: The Logic of Two-Level  
Games" International Organization 42(3): 427-460

### **Recommended**

Achen, Christopher H. and W. Phillips Shively (1995) Cross-Level Inference  
Chicago: University of Chicago Press.

A Symposium on the Application of EI Methods, Political Analysis 2003, 11(1): 44-94.

M. Herron and K. Schotts "Using Ecological Inference Point Estimates as Dependent  
Variables in Second Stage Regressions"

C. Adolph and G. King, "Comment on Herron and Schotts"

M. Herron and K. Schotts "Cross-contamination in EI-R: A Reply"



C.Adolph and G. King with M.Herron and K.Schotts, “A Consensus Second Stage Analyses in Ecological Inference Models”

Imai, Kosuke et al. “Bayesian and Likelihood Inference for 2x2 Ecological Tables: An Incomplete Data approach” Political Analysis 16(1):41-69.

Jackson, John E. and Ken Kollman (2011) “Connecting Micro and Macropartisanship” Political Analysis 19(4): 503-518

Raudenbush, Stephen w. and Anthony S. Byrk (2002) Hierarchical Linear Models Applications and Data Analysis Methods Second Edition. Thousand Oaks, CA: Sage Publications.

A Symposium on Multilevel Modeling for Large Clusters. Special Issue of Political Analysis 13(4). Articles by Kedar and Shively, Bowers and Drake, Jusko and Shively, Lewis and Linzer, Huber et al, Duch and Siverson, Kedar, Franzese, and Achen with Comments by Beck and Gelman.

#### *Part Four: Topics*

### **XIII. Political economy**

[April 29]

#### **Required**

Acemoglu, Daron and James A. Robinson (2002) “The Political Economy of the Kuznets Curve” Review of Development Economics 6(2): 183-203.

Duch, Raymond M. and Randolph A. Stevenson (2008) “Competency Signals and Rational Retrospective Economic Voting” and “Political Control of the Economy” Chapters 5 and 7, respectively in The Economic Vote: How Political and Economic Institutions Conditions Electoral Results NY: Cambridge University Press.

#### **Required also: Either**

Freeman, John R. and Daniel Houser (1998) “A Computable Political Equilibrium Model for the Study of Political Economy” American Journal of Political Science 42(2): 628-660.

#### **Or,**

Sattler, Thomas, Patrick Brandt and John R. Freeman (2010) “Democratic Accountability In Open Economies.” Quarterly Journal of Political Science 5: 71-97.

## **Recommended**

Acemoglu, Daron and James A. Robinson (2005) Economic Origins of Dictatorship and Democracy NY: Cambridge University Press.

Acemoglu, Daron and James A. Robinson (2001) "A Theory of Political Transitions" American Economic Review 91(4): 938-963.

Alesina, Alberto, John Londregan, and Howard Rosenthal (1993) "A Model of the Political Economy of the United States" American Political Science Review 87:12-33.

Alesina, Alberto and Howard Rosenthal (1995) Partisan Politics, Divided Government And The Economy Cambridge: Cambridge University Press.

Drazen, Allen (2000) Political Economy in Macroeconomics Princeton, NJ: Princeton University Press.

Freeman, John R. (2005) "Modeling Macropolitics: EITM and Reality." Paper presented At the EITM Workshop, Meeting of the Canadian Political Science Association, London, Ontario, June.

Freeman, John R. and James Alt (1994) "The Politics of Public and Private Investment In Britain." In The Comparative Political Economy of the Welfare State A.Hicks and T. Janoski eds. NY: Cambridge University Press.

Houser, Daniel and John R. Freeman (2002) "Economic Consequences of Political Approval Management in Comparative Perspective" Journal of Comparative Economics 29: 692-721.

Kollman, Kenneth, John Miller and Scott Page Editors (2003) Computational Models of Political Economy Cambridge, MA MIT Press.

Lohmann, Suzanne (1999) "What Price Accountability? The Lucas Island Model And the Politics of Monetary Policy" American Journal of Political Science 43(2): 396-431.

Persson, Torsten and Guido Tabellini (2000) Political Economics: Explaining Economic Policy Cambridge, MA: MIT Press.

#### XIV. Bayesian approaches to political analysis

[May 6]

##### Required

Brandt, Patrick T. and John R. Freeman (2009) "Modeling Macropolitical Dynamics" Political Analysis 17(2): 113-142

Gill, Jeff and John R. Freeman (forthcoming) "Dynamic Elicited Priors for Updating Covert Networks," Network Science

Jackman, Simon (2004) "Bayesian Analysis for Political Research" Annual Review of Political Science 7:483-505.

Montgomery, Jacob and Brendan Nylan (2010) Bayesian Model Averaging: Theoretical Developments and Practical Applications" Political Analysis 18(2): 245-270.

##### Recommended

Brandt, Patrick T. and John R. Freeman (2006) "Bayesian Time Series Analysis: Theory Testing, Forecasting and Policy Analysis" Political Analysis 14(1): 1-38

Gill, Jeff (2002) Bayesian Methods: A Social and Behavioral Approach Boca Raton, FL.: Chapman and Hall.

Gill, Jeff and Lee D. Walker (2005) "Elicited Priors for Bayesian Model Specification" Journal of Politics 67(3): 841-872

Jackman, Simon (2000) "Estimation and Inference via Bayesian Simulation: An Introduction to Markov Chain Monte Carlo" American Journal of Political Science 44(2): 375-405.

McCarty, Nolan and Adam Meirowitz (2007) "Dynamic Games of Incomplete Information" Chapter 8 in Political Game Theory, op. cit.

Montgomery, Jacob M., Florian M. Hollenbach, and Michael D. Ward (2012) "Improving Predictions Using Ensemble Bayesian Model Averaging" Political Analysis 20(3): 271-291

Western, Bruce and Simon Jackman (1994) "Bayesian Inference for Comparative Research" American Political Science Review 88: 412-423.

## **XV. Retrospectives and Review**

[Optional class during finals week (May 11)]

### **Required**

Review EITM, Clark and Primo, and other readings from week II (February 4)

### **Recommended**

An exchange in the Autumn 2007 issue of Political Analysis 15(4)

Carrubba, Clifford J. et al. "In Defense of Comparative Statics: Specifying Empirical Tests of Models of Strategic Interaction" pps. 465-482.

Signorino, Curtis S. (2007) "On Formal Theory and Statistical Methods: A Response to Carrubba et al" pps. 483-501

Carrubba et al. (2007) "Reply to Signorino" pps. 502-504

Esarey, Justin et al (2008) "Strategic Interaction and Interstate Crisis: A Bayesian Quantal Response Estimator for Incomplete Information Games" Political Analysis 16(3): 250-273.

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Topics in Part Three deserving (more than) a week's reading but (only mentioned) not covered here:

Break Point Analysis  
Count Models  
Event history (duration) analysis  
Graphics and visual display of data and of statistical results  
Hierarchical linear models  
Neural network modeling of politics  
Network analysis  
Panel methods  
Path dependency  
Political forecasting  
Spatial analysis  
Survey research  
Markov Switching and other kinds of nonlinear models  
Text analysis