

ICPSR 2013 – Spatial Regression for Contagion, Diffusion, and Interdependent Processes

12-16 August 2013

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Description & Objectives: Spatial interdependence is ubiquitous across the social sciences (and beyond). For examples: The likelihood and outcomes of demonstrations, riots, coups, and revolutions in one country almost certainly depend in substantively crucial ways on such occurrences in other countries (e.g., through demonstration effects or snowballing). Election outcomes and candidate qualities or strategies in some contests surely depend on those in others, and representatives' votes in legislatures certainly depend on others' votes or expected votes. In micro-behavioral research, long-standing and recently surging interest in contextual or network effects often refers to effects on each individual's behavior or opinion from sets of other individuals' opinions or behaviors; e.g., a respondent's opinion on some policy likely depends on the opinions of her state, district, community, or social group. In international relations, states' entry decisions in wars, alliances, and organizations, e.g., heavily depend on how many and who else enters and how. In comparative and international political economy, globalization, i.e., international economic integration, implies strategic (and non-strategic) interdependence in national-level macroeconomic policymaking.

This course introduces spatial and spatiotemporal econometric models for continuous and limited dependent variables that directly address such *interdependence*, with an emphasis on social-science applications.

The main objective of this course is to teach students how to incorporate the interdependence implied by most social scientific theories into their empirical analysis. Students will learn *inter alia* how to 1) diagnose spatial patterns in their data, 2) estimate the structural parameters of spatial and spatiotemporal regression models, 3) calculate and present spatial and spatiotemporal effects, 4) use spatial modeling to discriminate between the multiple sources of spatial correlation—common exposure, interdependence, and selection—and, where applicable, to evaluate the behavioral source of the interdependence (strategic responses, free-riding, learning, coercion, etc.) among units of observation.

Daily Schedule: Our morning sessions will *start around 9:30am* (after morning light-refreshments courtesy of ICPSR). We will break for *lunch around 11:30am*, resuming with our *afternoon session around 1pm*. We will take a *15-30 minute break around 2:45pm* (also with catered refreshments, enrollments permitting), and resume for *lab around 3:00-4:30*.

Prerequisites & Background: Students should have understandings of basic matrix algebra, calculus, probability, statistics, and regression analysis at levels commensurate with successful completion of a second graduate course in empirical methods in the social sciences, as well as some familiarity with a software package that can be used for spatial analysis (e.g., *Stata*, *R*, or *MatLab* for instance).

Course Materials: We do not use a textbook, but Anselin (2006) and Franzese & Hays (2008) overview most topics covered. Ward & Gleditsch (2008) provides good introductory textbook overview; LeSage & Pace (2009) is a good fuller, and more intermediate-to-advanced (& Bayesian) textbook.

Anselin, L. 2006. Spatial Econometrics. In T.C. Mills & K. Patterson, eds., *Palgrave Handbook of Econometrics: Volume 1, Econometrics Theory*. Basingstoke: Palgrave, pp. 901-941.

Anselin, L., Murray, A. T., & Rey, S. 2013. "Spatial Analysis." Ch. 8 in *The Oxford Handbook of Quantitative Methods in Psychology: Vol. 2: Statistical Analysis*, pp. 154-74.

Franzese, R., Hays, J. 2008. [Empirical Models of Spatial Interdependence](#). In J. Box-Steffensmeier, H. Brady, D. Collier, eds., *Oxford Handbook of Political Methodology*, Oxford UP, pp. 570-604. (Use the hyperlinked version; it corrects an error in the published.)

LeSage, J., Pace, K. 2009. *Introduction to Spatial Econometrics*. Boca Raton: CRC Press, Taylor & Francis Grp.

Ward, M.D. and K.S. Gleditsch. 2008. *Spatial Regression Models*. Thousand Oaks, CA: Sage.

Course Outline with Readings and Lab Plans

Session 1 (Monday, August 12th, Morning):

Introductory Stuff, Theoretical and Empirical Models of “Spatial” Interdependence

Ross, M. and E. Homer. 1976. “Galton’s Problem in Cross-National Research.” *World Politics* 29(1):1-28.

Brueckner, J. 2003. “Strategic Interaction among Governments: An Overview of Empirical Studies.” *International Regional Science Review* 26(2): 175-188.

Franzese, R., Hays, J. 2008. “[Contagion, Common Exposure, and Selection: Empirical Modeling of the Theories and Substance of Interdependence in Political Science](#),” *Concepts & Methods: Newsletter of the International Political Science Association* 4(2):3-9.

Simmons, B., Dobbin, F., Garrett, G. 2006. “The International Diffusion of Liberalism.” *International Organization* 60(4):781-810.

Session 2 (Monday, August 12th, Afternoon):

Diagnosing Spatial Association in Raw Data and/or in OLS Residuals

Anselin, L. 1995. “Local Indicators of Spatial Association – LISA.” *Geographical Analysis* 27: 93-115.

Buse, A. 1982. “The Likelihood Ratio, Wald, and LM Tests: An Expository Note.” *The American Statistician* 36(3): 153-157.

Anselin, L., Bera, A., Florax, R.J., Yoon, M. 1996. “Simple Diagnostic Tests for Spatial Dependence.” *Regional Science and Urban Economics*, 26: 77-104.

Griffith, D. 2000. “A linear regression solution to the spatial autocorrelation problem.” *Journal of Geographical Systems* 2:141-156.

Franzese, R., Hays, J. 2013. “[Testing for Spatial-Autoregressive Lag versus \(Unobserved\) Spatially Correlated Error-Components](#).” Presented at the European Political Science Association (EPSA 2013).

***** *Lab 1 Exercises: Measures & Diagnostics* *****

Session 3 (Tuesday, August 13th, Morning):

Spatial Lag, Error, and Mixed Models I: A Typology of Structural Models

Beck, N., Gleditsch, K., Beardsley, K. 2006. "Space is More than Geography: Using Spatial Econometrics in the Study of Political Economy." *International Studies Quarterly* 50: 27-44.

Plümper, T., Neumayer, E. 2010. "Model Specification in the Analysis of Spatial Dependence," *European Journal of Political Research* 49(3):418-42.

Suggested: Neumayer, E., Plümper, T. 2010. "Spatial Effects in Dyadic Data." *International Organization* 64(1):145-66.

Neumayer, E., Plümper, T. 2010. "Making Spatial Analysis Operational: Commands for Generating Spatial-Effect Variables in Monadic & Dyadic Data." *The Stata Journal* 10(4):585-605.

Session 4 (Tuesday, August 13th, Afternoon):

Spatial Lag, Error, and Mixed Models II: Estimation

Doreian, P. 1981. "Estimating Linear Models with Spatially Distributed Data." *Sociological Methodology* Vol. 12: 359-388.

Land, K., Deane, G. 1992. "On the Large-Sample Estimation of Regression Models with Spatial or Network-Effects Terms: A Two-Stage Least Squares Approach." *Sociological Methodology*, Vol. 22, pp. 221-248.

*******Lab 2 Exercises: SAR & STAR Models*******

Session 5 (Wednesday, August 14th, Morning):

Spatial Lag, Error, and Mixed Models III: Calculating and Presenting Spatial Effects

Franzese, R., Hays, J. 2007. "[Spatial-Econometric Models of Cross-Sectional Interdependence in Political Science Panel and Time-Series-Cross-Section Data](#)." *Political Analysis* 15(2): 140-164.

Elhorst, J.P. 2001. "Dynamic Models in Space and Time." *Geographical Analysis* 33:119-140.

LeSage, J., Pace, K. 2009. *Introduction to Spatial Econometrics*. Boca Raton: CRC Press, Taylor & Francis Grp, Chapter 2, pp. 25-42.

Session 6 (Wednesday, August 14th, Afternoon):

Spatiotemporal Models: Estimation & Interpretation

Repeat: Elhorst, J.P. 2001. "Dynamic Models in Space and Time." *Geographical Analysis* 33:119-140.

Repeat: Franzese, R., Hays, J. 2007. "Spatial-Econometric Models of Cross-Sectional Interdependence in Political Science Panel and Time-Series-Cross-Section Data." *Political Analysis* 15(2): 140-164.

Elhorst, J.P. 2010. "Spatial Panel-Data Models." In M.M. Fischer & A. Getis, eds., *Handbook of Applied Spatial Analysis*. Berlin: Springer, pp. 377-407.

Franzese, R., Hays, J. 2008. [Empirical Models of Spatial Interdependence](#). In J. Box-Steffensmeier, H. Brady, D. Collier, eds., *Oxford Handbook of Political Methodology*, Oxford UP, pp. 570-604. (Use the hyperlinked version; it corrects an error in the printed version.)

*******Lab 3 Exercises: More SAR & STAR Models*******

Session 7 (Thursday, August 15th, Morning):

Limited Dependent Variables I: Spatial-Probit Model

Beron, K., Murdoch, J., Vijverberg, W. 2003. "Why Cooperate? Public Goods, Economic Power, and the Montreal Protocol." *Review of Economics and Statistics* 85(2): 286-297.

Franzese, R., Hays, J., Cook, S. 2013. "Spatial-, Temporal-, and Spatiotemporal-Autoregressive Probit Models of Interdependent Binary Outcomes: Estimation and Interpretation." Two Versions: [Spatial Models of Politics Conference \(February, Texas A&M\)](#); [Political Science Research & Method submission \(August\)](#).

LeSage, J., Pace, K. 2009. *Introduction to Spatial Econometrics*. Boca Raton: CRC Press, Taylor & Francis Grp, Chapter 10, pp. 279-322.

*******Lab 4 Exercises: Spatial Probit*******

Session 8 (Thursday, August 15th, Afternoon):

Limited Dependent Variables II: Spatial-Duration and Spatial-Count Models

Hays, J. 2009. "[Bucking the System: Using Simulation Methods to Estimate and Analyze Systems of Equations with Qualitative and Limited Dependent Variables](#)," SLAMM (St. Louis Area Methods Meetings), Washington University in St. Louis.

Franzese, R., Hays, J. 2009. "[A Comparison of the Small-Sample Properties of Several Estimators for Spatial-Lag Count-Models](#)," Political Methodology Society Annual Meetings.

Suggested: Griffith, D., Haining, R. 2006. "Beyond Mule Kicks: The Poisson Distribution in Geographical Analysis." *Geographical Analysis* 38: 123-139.

Hays, J., Kachi, A. 2009. "[Interdependent Duration Models in Political Science](#)," American Political Science Association Annual Meetings.

Suggested: Darmofal, D. 2009. "Bayesian Spatial Survival Models for Political Event Processes," *American Journal of Political Science* 53(1):241-57.

Hays, J., Schilling, E., Boehmke, F. 2013. "[Accounting for Right Censoring in Interdependent Duration Analysis](#)," Political Methodology Society Annual Meeting

*******Lab 5 Exercises: Spatial-Duration & Count*******

Session 9 (Friday, August 16th, Morning):

Multiparametric Spatial-Lag Models and Network-Behavior Coevolution

Hays, J., Kachi, A., Franzese, R. 2010. "[A Spatial Model Incorporating Dynamic, Endogenous Network Interdependence: A Political Science Application](#)," *Statistical Methodology* 7(3): 406-28.

*******Lab 6 Exercises: m-STAR Model*******

Session 10 (Friday, August 16th, Afternoon):

Network and Spatial-Econometric Models of Network-Behavior Coevolution

Franzese, R., Hays, J., Kachi, A. 2012. "[Modeling History Dependence in Network-Behavior Coevolution](#)" *Political Analysis* 20(2):175-90.

Spatial-Econometric Models for the Political & Social Sciences
A Subject-Organized Reference List for Applied Spatial-Modeling in Political Science:

- ON POLICY-INNOVATION DIFFUSION AMONG US STATES: Crain 1966; Walker 1969, 1973; Gray 1973; Knoke 1982; Caldiera 1985; Lutz 1987; Berry & Berry 1990; Case et al. 1993; Berry 1994; Rogers 1995; Mintrom 1997ab; Brueckner 1998; Mintrom & Vergari 1998; Mossberger 1999; Berry & Berry 1999; Godwin & Schroedel 2000; Balla 2001; Mooney 2001; Wejnert 2002; Coughlin et al. 2003; Bailey & Rom 2004; Boehmke & Witmer 2004; Daley & Garand 2004; Grossback et al. 2004; Mencken 2004; Berry & Baybeck 2005; Garrett et al. 2005; Costa-Font & Ons-Novell 2006; Karch 2006; Rincke 2006; Shipan & Volden 2006; Volden 2006; Werck et al. 2006; Woods 2006; Volden et al. 2007.
- ON INTER/CROSS-NATIONAL POLICY-INNOVATION DIFFUSION: Schneider & Ingram 1988; Rose 1993; Bennett 1997; Dolowitz & Marsh 2000; True & Mintrom 2001; Tews et al. 2003; Jensen 2004; Meseguer 2004, 2005; Brooks 2005, 2007; Gilardi 2005; Gilardi et al. 2005; Murillo & Schrank 2005; Weyland 2005; Braun & Gilardi 2006; Linos 2006; Parys 2006; Ermini & Santolini 2007; Moscone et al. 2007.
- ON INSTITUTIONAL/REGIME DIFFUSION: Dahl's 1971 classic *Polyarchy*, e.g., implicitly references international interdependence among the eight causes of democracy he lists; Starr's 1991 "Democratic Dominoes" and Huntington's 1991 *Third Wave* accord it a central role; Beissinger 2007 and Bunce & Wolchik 2006, 2007, *inter alia*, emphasize it in the context of post-communist democratic transitions in Eastern Europe, and Hagopian & Mainwaring 2005 among others in the Latin American context; finally, O'Loughlin et al. 1998, Brinks & Coppedge 2006, and Gleditsch & Ward 2006, 2007 estimated empirically the extent, paths, and/or patterns of international diffusion of democracy. Kelejian et al. 2007 give institutional diffusion general theoretical and empirical treatment.
- EMPIRICAL ATTENTION TO THE INHERENT INTERDEPENDENCE OF INTERNATIONAL RELATIONS... is most extensive in the work of Ward, Gleditsch, and colleagues—Shin & Ward 1999; Gleditsch & Ward 2000; Gleditsch 2002; Ward & Gleditsch 2002; Hoff & Ward 2004; Gartzke & Gleditsch 2006; Salehyan & Gleditsch 2006; Gleditsch 2007—and, in a different way, in Signorino and colleagues—Signorino 1999, 2002, 2003; Signorino & Yilmaz 2003; Signorino & Tarar 2006.
- ON DIFFUSION IN COMPARATIVE & INTERNATIONAL POLITICAL ECONOMY, AND GLOBALIZATION: Simmons & Elkins 2004 and Simmons et al. 2006, e.g., stress cross-national diffusion as the main force behind recent economic liberalizations, as do Eising 2002; Brune et al. 2004; Brooks 2005, 2007; Jordana & Levi-Faur 2005; Way 2005; Lazer 2006; Prakash & Potoski 2006; Brune & Guisinger 2007; and many others. Empirical work on globalization-induced interdependencies are far too numerous even to cite. Just a list of recent works emphasizing those that recognize explicitly that interdependence implies effects of some units outcomes on others—and still a small subset at that—would include Genschel 2002; Guler et al. 2002; Franzese & Hays 2003, 2004b, 2005a, 2007abc, 2008c; Badinger et al. 2004; Basinger & Hallerberg 2004; Heichel et al. 2005; Henisz et al. 2005; Holzinger & Knill 2005; Knill 2005; Polillo & Guillén 2005; Elkins et al. 2006; Jahn 2006; Lee & Strang 2006; Manger 2006; Swank 2006; Baturu & Grey 2007; Cao 2007; Cao et al. 2007; Coughlin et al. 2007; Garretsen & Peeters 2007; Mosley & Uno 2007; Mukherjee & Singer 2007.
- ON INTERDEPENDENCE OF LEGISLATORS' VOTES (MODELED SPATIALLY): See, for example, Lacombe & Shaughnessy 2005.
- ON INTERDEPENDENCE OF CITIZENS' VOTES (MODELED SPATIALLY): See, for example, Huckfeldt & Sprague 1991; O'Loughlin et al. 1994; Pattie & Johnston 2000; Beck et al. 2003; Calvo & Escolar 2003; Kim et al. 2003; Schofield et al. 2003; Lacombe & Shaughnessy 2007.
- ON INTERDEPENDENCE OF ELECTION OUTCOMES (MODELED SPATIALLY): See, for example, Shin & Agnew 2002, 2007; Hiskey & Canache 2005; Wing & Walker 2006; Kayser 2007.
- ON INTERDEPENDENCE OF CANDIDATE QUALITIES, CONTRIBUTIONS, OR STRATEGIES: See, for example, Goldenberg et al. 1986; Mizruchi 1989; Krasno et al. 1994; Cho 2003; Gimpel et al. 2006.

- FOR SPATIAL MODELS OF THE INTERDEPENDENCE OF THE PROBABILITIES AND OUTCOMES OF COUPS: e.g., Li & Thompson 1975; OF RIOTS: e.g., Govea & West 1981; OF CIVIL WARS: e.g., Murdoch & Sandler 2004, Buhaug & Rød 2006; OF REVOLUTIONS: e.g., Brinks & Coppedge 2006.
- ON INTERDEPENDENCE IN TREATY SIGNING: see, e.g., Murdoch et al. 2003.
- ON INTERDEPENDENCE IN TERRORIST ORIGINS AND TARGETS: see, e.g., Brathwaite & Li 2008.
- CONTEXTUAL/NEIGHBORHOOD EFFECTS IN MICRO-BEHAVIORAL STUDIES: Huckfeldt & Sprague (1993) review the large literature on contextual/neighborhood effects in political behavior; as do Sampson et al. (2002) and Dietz (2002) for sociology. Recent analyses that stress interdependence include Straits 1990; O'Loughlin et al. 1994; Knack & Kropf 1998; Liu et al. 1998; Braybeck & Huckfeldt 2002ab; Beck et al. 2002; McClurg 2003; Huckfeldt et al. 2005; Cho & Gimpel 2007; Cho & Rudolph 2007.
- ON INTERDEPENDENT SOCIAL-MOVEMENTS: see, e.g., McAdam & Rucht 1993; Conell & Cohn 1995; Giugni 1998; Strang & Soule 1998; Biggs 2003; Browning et al. 2004; Andrews & Biggs 2006; Holmes 2006; Swaroop & Morenoff 2006.
- ON INTERDEPENDENCE IN VIOLENCE AND CRIME: see, e.g., Grattet et al. 1998; Myers 2000; Baller et al. 2001; Morenoff et al. 2001; Villareal 2002; Baker & Faulkner 2003; Oberwittler 2004; Bhati 2005ab; Mears & Bhati 2006.
- ON INTERDEPENDENCE IN (MICROECONOMIC) UTILITIES: see, e.g., Akerlof 1997; Postlewaite 1998; Glaeser & Scheinkman 2000; Manski 2000; Brock & Durlauf 2001; Durlauf 2001; Glaeser et al. 2003; Yang & Allenby 2003; Sobel 2005; Ioannides 2006; Soetevent 2006.
- ON INTERDEPENDENCE IN MACROECONOMIC PERFORMANCE: see, e.g., Fingleton 2003; Novo 2003; Kosfeld & Lauridsen 2004; Maza & Villaverde 2004; Kelejian et al. 2006; Mencken et al. 2006.
- ON INTERDEPENDENCE IN TECHNOLOGY, MARKETING, AND OTHER FIRM STRATEGIES: see, e.g., ; Abramson & Rosenkopf 1993; Geroski 2000; Strang & Macy 2001; Holloway 2002; Bradlow 2005; Autant-Berard 2006; Mizruchi et al. 2006.
- ON INTERDEPENDENCE IN FERTILITY, BIRTHWEIGHT, CHILD DEVELOPMENT, OR CHILD POVERTY: see, e.g., Tolnay 1995, Montgomery & Casterline 1996; Morenoff 2003; Sampson et al. 1999; Voss et al. 2006.
- ON INTERDEPENDENCE IN ORDAINMENT OF WOMEN: Chaves 1996; IN RIGHT-WING EXTREMISM: Rydgren 2005, IN MARRIAGE: Yabiku 2006, IN (SUB)NATIONAL IDENTITY: Lin et al. 2006; IN OBESITY: Christakis & Fowler 2007; and IN RESEARCH FACULTY: Weinstein 2007.

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