

## 3H: Spatial Econometrics

(Essex Summer School in Social Science Data Analysis, Summer 2010)

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**Course Description.** Spatial interdependence is ubiquitous throughout the social sciences. 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 the 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 provides an introduction to spatial and spatiotemporal econometric models for continuous and limited dependent variables that can address such interdependence, with an emphasis on social science applications.

**Course Objectives.** 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. Participants 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, and 4) use spatial modeling to discriminate between the multiple sources of spatial correlation—common exposure, interdependence, and selection—and, when it exists, evaluate the nature of the interdependence (e.g., strategic free-riding behavior, learning, coercion) among units of observation.

**Course Prerequisites.** Students should have a basic understanding of matrix algebra, probability theory, first-year calculus, and regression as well as some familiarity with a software package that can be used for spatial analysis (e.g., MATLAB, STATA, or R).

We do not use a textbook, but Anselin (2006) and Franzese and Hays (2008) provide overviews of all but a few of the topics we will cover. Ward and Gleditsch (2008) is an excellent introductory textbook for spatial regression models.

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

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.)

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

## **Course Outline with Readings and Assignment Due Dates**

### **Session 1 (August 9<sup>th</sup>): Introductory Stuff, Theoretical and Empirical Models of “Spatial” Interdependence**

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

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

Simmons, Beth A., Frank Dobbin, and Geoffrey Garrett. 2006. “The International Diffusion of Liberalism.” *International Organization* 60(4):781-810.

\*\*\*\*\**Assignment #1 Distributed*\*\*\*\*\*

### **Session 2 (August 10<sup>th</sup>): Diagnosing Spatial Dependence in OLS Residuals**

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

*Suggested:*

Cho, W.T. and T. Rudolph. 2007. “Emanating Political Participation: Untangling the Spatial Structure Behind Participation.” *British Journal of Political Science* 38(2): 273-289.

### **Session 3 (August 11<sup>th</sup>): Spatial Lag, Error, and Mixed Models I: A Typology of Structural Models**

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

Neumayer, Eric and Thomas Plümer. 2009. "Spatial Effects in Dyadic Data." *International Organization* 64(1), Forthcoming.

#### **Session 4 (August 12<sup>th</sup>): Spatial Lag, Error, and Mixed Models II: Estimation**

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

Land, Kenneth C. and Glenn Deane. 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.

#### **Session 5 (August 13<sup>th</sup>): Spatial Lag, Error, and Mixed Models III: Calculating and Presenting Spatial Effects**

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

#### **Session 6 (August 16<sup>th</sup>): Spatio-temporal Models I: Estimation**

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

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.

\*\*\*\*\**Assignment #1 Due*\*\*\*\*\*  
\*\*\*\*\**Assignment #2 Distributed*\*\*\*\*\*

#### **Session 7 (August 17<sup>th</sup>): Spatio-temporal Models II: Spatio-temporal Multipliers**

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.)

#### **Session 8 (August 18<sup>th</sup>): Limited Dependent Variables I: Spatial Probit, Spatial Poisson, and Spatial Duration Models**

*Required:*

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

*Suggested:*

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

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.

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

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

## **Session 9 (August 19<sup>th</sup>): Limited Dependent Variables II: Estimation and Calculating Effects**

Franzese, R., Hays, J. 2009. "[The Spatial Probit Model of Interdependent Binary Outcomes: Estimation, Interpretation, and Presentation](#)," Public Choice Society Annual Meetings.

Hays, J.C. 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.

## **Session 10 (August 20<sup>th</sup>): Multiparametric Spatial-Lag Models and Network-Behavior Coevolution**

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

Hays, J., Kachi, A., Franzese, R. 2010. "[History Dependence in Network-Behavior Coevolution: A Type-Interaction Model Merging Spatial-Econometric and Network-Analytic Approaches](#)," Spatial Econometrics Association Annual Meetings.

\*\*\*\*\**Assignment #2 Due*\*\*\*\*\*

## 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; Baturo & 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., Akerloff 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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