Oral Exam: Causal Inference
Siqi Tu (Supervisor: Mary Clare Lennon)
Fall 2015

1. Scientific Inquires in Social Sciences and Causal Inferences

Chalmers, Iain. 2001. "Comparing like with like: Some Historical Milestones in the Evolution of Methods to Create Unbiased Comparison Groups in Therapeutic Experiments." *International Journal of Epidemiology* 30 (5): 1156–64.

Dawid, A.P. (2000). "Causal Inference Without Counterfactuals". *Journal of the American Statistical Association* 95:407-424.

Duneier, Mitchell. 2011. "How Not to Lie with Ethnography." *Sociological Methodology* 41 (1): 1–11.

Freedman, David A. 1991. "Statistical Models and Shoe Leather." *Sociological Methodology* 21: 291–313.

Freese, Jeremy. 2007. "Replication Standards for Quantitative Social Science Why Not Sociology?" *Sociological Methods & Research* 36 (2): 153–72.

Gangl, Markus. 2010. "Causal Inference in Sociological Research." *Annual Review of Sociology* 36 (1): 21–47.

Goldthorpe, John H. 2000. *On Sociology: Numbers, Narratives, and the Integration of Research and Theory.* Oxford University Press.

Heckman, James J. 2005. "The Scientific Model of Causality." *Sociological Methodology* 35 (1): 1–97.

Heckman, James J. 2005. "Rejoinder: Response to Sobel." *Sociological Methodology* 35 (1): 135–150.

King, Gary, Robert Keohane and Sidney Verba. 1994. *Designing Social Inquiry: Scientific Inference in Qualitative Research.* Princeton, NJ: Princeton University Press.

Lieberson, Stanley. 1987. *Making It Count: The Improvement of Social Research and Theory.* Berkeley: University of California Press.

Morgan, Stephen L., and David J. Harding. 2006. "Matching Estimators of Causal Effects Prospects and Pitfalls in Theory and Practice." *Sociological Methods & Research* 35 (1): 3–60:

Mutz, Diana C. 2011. *Population-Based Survey Experiments.* Princeton: Princeton University Press.

Morgan, Stephen L., and Christopher Winship. 2015. *Counterfactuals and Causal Inference: Methods and Principles for Social Research.* Cambridge: Cambridge University Press, 2nd edition.
    Ch.1: Introduction
    Ch 2: The Counterfactual Model

Shadish, William R., Thomas D. Cook, and Donald T. Campbell. 2001. *Experimental and Quasi-Experimental Designs for Generalized Causal Inference.* Second edition. Boston: Cengage Learning.
    Ch.1: Experiments and Generalized Causal Inference
    Ch.2: Statistical Conclusion Validity and Internal Validity
    Ch.3: Construct Validity and External Validity

Sobel, Michael E. 2005. Discussion: 'The Scientific Model of Causality'. *Sociological Methodology* 35(1): 99–133.

Stinchcombe, Arthur. 1968. *Constructing Social Theories.* Chicago: University of Chicago Press.
    Ch. 2: The Logic of Scientific Inference
    Ch. 3: Complex Causal Structures: Demographic, Functional, and Historicist Explanations of Social Phenomena

2. Causal Inference Techniques (Regression discontinuity, propensity score matching, IV, fixed effects and difference-in-difference models)

Angrist, Joshua D., and Jörn-Steffen Pischke. 2014. *Mastering Metrics: The Path from Cause to Effect.* Princeton, New Jersey: Princeton University Press.

Gelman, Andrew and Jennifer Hill. *Data analysis using regression and multilevel/hierarchical models.* Canibridge University Press, 2007

Holland, Paul W. 1986. "Statistics and causal inference (with discussion)". *Journal of the American Statistical Association* 81: 945-970.

Rosenbaum, P. 2002. "Covariance adjustment in randomized experiments and observational studies". *Statistical Science* 17(3): 286-327

Rosenbaum, PR and D B. Rubin. 1985. "Constructing a control group using multivariate matched sampling methods that incorporate the propensity score ". *The American Statistician* 39: 33-38

Rosenbaum, Paul R. and Rubin, Donald B. 1984. "Reducing Bias in Observational Studies Using Subclassification on the Propensity Score" *Journal of the American Statistical Association* 79: 516—524.

Rubin, D. 1990. "Formal modes of statistical inference for causal effects". *Journal of Statistical Planning and Inference* 25: 279-292.

3. Critical Reflection

Becker, Howard. 2014. *What About Mozart? What About Murder?: Reasoning From Cases.* University Of Chicago Press.

Feyerabend, Paul. 2010. *Against Method.* 4th ed. New York, NY: Verso Books.

Kuhn, Thomas. 1996. The Structure of Scientific Revolutions. 3rd edition. Chicago: University of Chicago Press.

Tilly, Charles. 2001. "Mechanisms in Political Processes." *Annual Review of Political Science* 4:21-41.

Tilly, Charles. 2008. *Why?* Princeton University Press.

Rachel Swaner
Quantitative Methods Orals List
Advisor: Juan Battle

OLS Regression

Berry, William. 1993. *Understanding Regression Assumptions.* Sage Publications, Thousand
Oaks.

Lewis-Beck, Michael. 1995. *Data Analysis: An Introduction.* Sage Publications, Thousand Oaks.

Von Eye, Alexander, Christof Schuster, and Friedrich Schiller. 1998. *Regression Analysis for
Social Sciences.* Academic Press, San Diego.

OLS Applications:

Joseph, Janice. (1996) "School Factors and Delinquency: A Study of African American Youths."
Journal of Black Studies. 26(3):340-355.

Teachman, Jay D., Kathleen Paasch, and Karen Carver. (1996) "Social Capital and Dropping Out
of School Early." *Journal of Marriage and the Family.* 58:773-783.

Logistic Regression

Agresti, Alan. 2002. *Categorical Data Analysis.* John Wiley & Sons, Inc., Hoboken.

Menard, Scott. 2001. *Applied Logistic Regression Analysis.* Sage Publications, Thousand Oaks.

LR Applications:

Davies, Scott. 1994. "In Search of Resistance and Rebellion among High School Dropouts."
Canadian Journal of Sociology. 19(3):331-350.

Davies, Scott. (1995) "Reproduction and Resistance in Canadian High Schools: An Empirical
Examination of the Willis Thesis." *The British Journal of Sociology.* 46(4):662-687.

Hierarchical Linear Modeling

Blalock, Hubert M. 1984. "Contextual-Effects Models: Theoretical and Methodological Issues."
Annual Review of Sociology, 10:353-72.

Bryk, Anthony S. and Stephen W. Raudenbush. 2002. *Hierarchical Linear Models: Applications
and Data Analysis Methods, 2nd edition.* Sage Publications, Thousand Oaks.

Luke, Douglas. 2004. *Multilevel Modeling.* Sage Publications, Thousand Oaks.

HLM Applications:

Bryk, Anthony S. and Thum Yeow Meng. 1989. "The Effects of High School Organization on Dropping Out: An Exploratory Investigation." *American Educational Research Journal*. 26(3):353-383.

Gamoran, Adam. 1992. "The Variable Effects of High School Tracking." *American Sociological Review*. 57:812-828.

Structural Equation Modeling

Bollen, Kenneth A. 1989. *Structural Equations with Latent Variables*. John Wiley & Sons, Inc., Hoboken.

Kaplan, David. 2000. *Structural Equation Modeling: Foundations and Extensions*. Sage Publications, Thousand Oaks.

SEM Applications:

Aseltine, Robert H., Susan Gore, and Jennifer Gordon. 2000. "Life Stress, Anger and Anxiety, and Delinquency: An Empirical Test of General Strain Theory." *Journal of Health and Social Behavior*. 41:256-275.

Schwab-Stone, Mary, Chuansheng Chen, Ellen Greenberger, David Silver, Judith Lichtman, and Charlene Voyce. 1999. "The effects of violence exposure on urban youth." *Journal of the American Academy of Child and Adolescent Psychiatry*. 38(4):359-367.

Repeated Measures

Girden, Ellen R. 1992. *ANOVA: Repeated Measures*. Sage Publications, Inc., Newbury Park.

Crowder, Martin J., and D.J. Hand. 1990. *Analysis of Repeated Measures*. CRC Press, Boca Raton.

Repeated Measures Applications:

DuRant, Robert H., Shar Barkin, and Daniel P. Korwchuk. 2001. "Evaluation of a Peaceful Conflict Resolution and Violence Prevention Curriculum for Sixth-Grade Students." *Journal of Adolescent Health*. 28:386-393.

Nicholas SW, VE Hutchinson, et al. 2005. "Improving Childhood Asthma through Community-Based Service Delivery: The Harlem Children's Zone Asthma Initiative." *Center for Disease Control's Morbidity and Mortality Weekly*. 54(1):11-14.

Jonathan DeBusk
Examiner: Juan Battle

Fall 11

Quantitative Research Methods:
Second Exam Reading List

Foundational

Alford, R.R. 1998. *The Craft of Inquiry: Theory, Methods, Evidence*. New York: Oxford University Press.

Babbie, Earl. 2010. *The Practice of Social Research*. Wadsworth: Belmont, CA.

Healy, Joseph F. 2009. *Statistics: A Tool for Social Research*. Wadsworth: Belmont, CA.

Lieberson, Stanley. 1985. Making it Count. University of California Press: Berkley, CA.

Ordinary Least Squares Regression

Berry, William D. 1993. *Understanding Regression Assumptions*. Thousand Oaks, CA: Sage Publications.

Blalock, Hubert Jr. 1963. "Correlated Independent Variables: The Problem of Multicollinearity." *Social Forces* 42(2):233-237.

<u>Applications</u>

Adelman, Robert M. 1999. "Poverty, Race, and US Metropolitan Social and Economic Structure." *Journal of Urban Affairs* 21(1):35-56.

Scopilliti, Melissa and John Iceland. 2008. "Residential Patterns of Black Immigrants and Native-Born Blacks in the United States." *Social Science Quarterly* 89(3):551-572.

Logistic Regression

Menard, Soctt. 2002. *Applied Logistic Regression Analysis*. Thousand Oaks, CA: Sage Publications.

Sofroniou, Nick and Graeme D. Hutcheson. 2002. "Confidence Intervals for the Predictions of Logistic Regression in the Presence and Absence of a Variance-Covarience Matrix." *Understanding Statistics* 1(1):3-18.

<u>Applications</u>

Bennett, Pamela R. and Amy Lutz. 2009. "How African American Is the Net Black Advantage? Differences in College Attendance Among Immigrant Blacks, Native Blacks and Whites." *Sociology of Education* 82:70-100.

De Jong, Gordon F. and Anna B. Madamba. 2001. "A double Disadvantage? Minority Group, Immigrant Status, and Underemployment in the United States." *Social Science Quarterly* 82(1):117-130.

HLM

Luke, David A. 2004. *Multilevel Modeling*. Thousand Oaks, CA: Sage Publications.

Raudenbush, Stephen, Anthony Bryk, Yuk Fai Cheong, Richard Congdon, and Mathilda du Toit. 2004. *HLM 6*. Lincolnwood, IL: Scientific Software International, Inc.

Applications

Stewart, Quincy T. and Jeffrey C. Dixon. 2010. "Is is Race, Immigrant Status or Both? An Analysis of Wage Disparities among Men in the United States." *International Migration Review* 44(1):173-201.

McMall, Leslie. 2001. "Sources of Racial Wage Inequality in Metropolitan Labor Markets: Racial, Ethnic, and Gender Differences." *American Sociological Review* 66:520-541.

SEM

Byrne, Barbara. 2001. *Structural Equation Modeling with AMOS: Basic Concepts, Applications, and Programming*. Mahwah, NJ: Lawrence Erlbaum Associates Inc.

Blunch, Niels J. 2008. Introduction to Structural Equation Modeling Using SPSS and Amos. Thousand Oaks, CA: Sage Publications Ltd.

Applications

Ashiabi, Godwin S. 2008. "African and non-Hispanic white children's health: integrating alternative explanations." *Ethnicity & Health* 13(5):375-398.

Graefe, Deborah R., Gordon F. De Jong, Matthew Hall, Samuel Sturgeon, and Julie VanEerden. 2008. "Immigrants' TANF Eligibility, 1996-2003: What Explains the New Across-State Inequalities?" *International Migration Review* 42(1):89-133.

Paul Attewell

Reading List - Quantitative Methods

General Models for Social Research
Agresti, Alan. 1990. *Categorical Data Analysis.* New York: Wiley.
Bock, R. Darrell. 1975. *Multivariate Statistical Methods in Behavioral Research.* New York: McGraw Hill.
Costello, Anna B., and Jason W. Osborne. 2005. "Best Practices in Exploratory Factor Analysis." *Practical Assessment, Research and Evaluation* 10, no. 7.
Fox, John. 1991. *Regression Diagnostics.* Thousand Oaks, CA: Sage.
Harrell, Frank E., Jr. 2001. *Regression Modeling Strategies.* New York: Springer.
Loehlin, John C. 1998. *Latent Variable Models: An Introduction to Factor, Path, and Structural Analysis.* Mahwah, NJ: Lawrence Erlbaum.
Long, J. Scott. 1997. *Regression Models for Categorical and Limited Dependent Variables.* Thousand Oaks, CA: Sage.
Petersen, Trond. 1985. "A Comment on Presenting Results from Logit and Probit Models." *American Sociological Review* 50: 130-131.

Multilevel Models
Fitzmaurice, Garrett, Nan M. Laird, and James H. Ware. 2004. *Longitudinal Data Analysis.* Hoboken, NJ: Wiley-Interscience.
Rabe-Hesketh, Sophia, and Anders Skrondal. 2008. *Multilevel and Longitudinal Modeling Using Stata.* 2nd ed. College Station, TX: Stata Press.
Raudenbush, Stephen W., and Anthony S. Bryk. 2002. *Hierarchical Linear Models: Appplications and Data Analysis Methods.* Thousand Oaks, CA: Sage.

Bayesian Perspective
Lynch, Scott M. 2007. *Introduction to Applied Bayesian Statistics and Estimation for Social Scientists.* New York: Springer.
Winkler, Robert L. 2003. *Introduction to Bayesian Inference and Decision.* Gainesville, FL: Probabilistic Pub.

Missing Data
Allison, Paul D. 2002. *Missing Data.* Thousand Oaks, CA: Sage.
King, Gary, et al. 2001. "Analyzing Incomplete Political Science Data." *American Political Science Review* 95: 49-69.
Schafer, Joseph L. 1997. *Analysis of Incomplete Multivariate Data.* Boca Raton, FL: CRC Press.

Selection Bias and Quasi-Experimental Methods
Attewell, Paul, et al. 2006. "New Evidence on College Remediation." *Journal of Higher Education* 77: 886-924.
Dehejia, Rajeev, and Sadek Wahba. 1999. "Causal Effects in Nonexperimental Studies: Reevaluating the Evaluation of Training Programs." *Journal of the American Statistical Association* 94: 1053-1062.
Harding, David J. 2003. "Counterfactual Models of Neighborhood Effects: The Effect of Neighborhood Poverty on Dropping Out and Teenage Pregnancy." *American Journal of Sociology* 109: 676-719.
Morgan, Stephen L., and Christopher Winship. 2007. *Counterfactuals and Causal Inference: Methods and Principles for Social Research.* New York: Cambridge University Press.

Rubin, Donald B., Elizabeth A. Stuart, and Elaine L. Zanutto. 2004. "A Potential Outcomes View of Value-Added Assessment in Education." *Journal of Educational and Behavioral Statistics* 29: 103:116.

Event History Analysis

Allison, Paul. 1984. *Event History Analysis. Beverly Hills, CA: Sage.*

Scott, Marc A., and Benjamin Kennedy. 2005. "Pitfalls in Pathways: Some Perspectives on Competing Risks Event History Analysis in Education Research." *Journal of Educational and Behavioral Statistics* 30: 413-442.

Willett, John B. and Judith D. Singer. 2003. *Applied Longitudinal Data Analysis.* New York: Oxford University Press.

--------. 1991. "From Whether to When: New Methods for Studying Student Dropout and Teacher Attrition." *Review of Educational Research* 61: 407-450.

--------. 1995. "It's Déjà Vu All over Again: Using Multiple-Spell Discrete-Time Survival Analysis." *Journal of Educational and Behavioral Statistics* 20: 41-67.

The Logic of Quantitative Research and Analysis

Firebaugh, Glenn. 2008. *Seven Rules for Social Research.* Princeton, NJ: Princeton University Press.

Lieberson, Stanley. 1985. *Making It Count: The Improvement of Social Research and Theory.* Berkeley, CA: University of California Press.

Rindskopf, David. 1997. "Testing 'Small' Not Null Hypotheses." In *What If There Were No Significance Tests?,* L. L. Harlow, S. A. Mulaik, and J. H. Steiger, eds. Mahwah, NJ: Lawrence Erlbaum.

Julie Netherland
Methods Orals List

Logic of Inquiry

Alford Robert R. (1998). <u>The Craft of Inquiry: Theories, Methods, Evidence,</u> New York: Oxford University Press.

Becker, H. (1998). <u>Tricks of the Trade: How to Think about Your Research While You're Doing It</u>. Chicago: Univ. of Chicago Press.

Creswell, JW. (1994). <u>Research Design: qualitative and quantitative approaches</u>. Thousand Oaks: Sage Publications.

Qualitative Interviewing

Rubin, I. and H. Rubin. (1995). <u>Qualitative Interviewing: The Art of Hearing Data</u>. Thousand Oaks: Sage Publications.

Neale, J., Allen, D., and L. Coombes. (2005). *Qualitative research methods within the addictions.* Addiction, 100: 1584-1593.

Granfield, R. and W. Cloud. (1999). <u>Coming Clean: Overcoming Addiction without Treatment</u>. New York: New York University Press.

Fraser, J. (1997). *Methadone Clinic Culture: The Everyday Realities of Female Methadone Clients.* Qualitative Health Research, Vol. 7, No. 1, 121-139.

Focus Groups

Morgan, D. (1996). *Focus Groups.* Annual Review of Sociology, Vol. 22: 129-152

Krueger, R. and M.A. Casey. (2000). <u>Focus groups: a practical guides for applied research</u>. New York: Sage Publications.

Worthington, N. Markham, T. Galea, S. and D. Rosenthal. (2006). *Opiate users' knowledge about overdose prevention and naloxone in New York City: a focus group study.* Harm Reduction Journal, 3:19, p.1-7.

Roche, A., Guray, C., and J. Saunders. (1991). *General practitioners' experiences of patients with drug and alcohol problems.* Addiction 86 (3), 263–275.

Comparative Historical Method

Skocpol, T. (1994). *Sociology's Historical Imagination* (p.1-21) and *Emerging Agendas and Recurrent Strategies in Historical Sociology* (p.356-91) in Vision and Method in Historical Sociology. Cambridge: Cambridge University Press.

Mahoney, J. (2004). *Comparative-Historical Methodology.* Annual Review of Sociology v. 30 (2004) p. 81-101.

Beck, J. (1998). *100 Years of 'Just Say No' Versus 'Just Say Know'.* Evaluation Review, 22(1):15-45.

Cooper, H. (2004). *Medical theories of opiate addiction's aetiology and their relationship to addicts' perceived social position in the United States: a historical analysis.* International Journal of Drug Policy, 15:435-445.

Logistic Regression

Menard, S. (2002). Applied Logistic Regression Analysis. Thousand Oaks: Sage Publications.

Morgan SP, Teachman JD. (1988). *Logistic regression: description, examples, and comparisons.* Journal of Marriage and the Family, 50:929-936.

Darke, S. and J. Ross. (1996). *Overdose among heroin users in Sydney, Australia: I. Prevalence and correlates of non-fatal overdose.* Addiction, 91(3):405-411.

Kerr, T., Tyndall, M., Li, K., Montaner, J., and E. Wood. (2005). *Safer injection facility use and syringe sharing in injection drug users.* The Lancet, 366(9482):316-318.

Hierarchical Linear Modeling

Bryck AS, Raudenbush SW. (2002). Hierarchical Linear Models: Applications and Data Analysis Methods. 2nd Edition. Thousand Oaks, CA: Sage Publications.

Blalock HM. (1984). Contextual-effects models: theoretical and methodological issues. Annual Review of Sociology,10:353-72.

Horney, J., Osgood, W. and I. Marshall. (1995). *Criminal Careers in the Short-Term: Intra-Individual Variability in Crime and Its Relation to Local Life Circumstances.* American Sociological Review, 60(5): 655-673.

Musick, K., Seltzer, J., and C. Schwartz (2008). *Neighborhood norms and substance use among teens.* Soc Sci Res, 37(1): 138-155.

Structural Equation Modeling

Bollen, KA. (1989). <u>Structural Equations with Latent Variables</u>. New York: Wiley.

Byrne, BM. (1998). <u>Structural Equation Modeling with LISREL, PRELIS, and SIMPLIS</u>. Mahway, NJ: Lawrence Erlbaum.

Kaplan D. (2000). <u>Structural Equation Modeling: Foundations and Extensions</u>. Thousand Oaks, CA: Sage Publications.

Mueller, R. (1996). <u>Basic Principles of Structural Equation Modeling: an Introduction to LISREL and EQS</u>. New York: Springer.

Hser, Y., Grella, C., Chou, C. and M. Anglin. (1998). *Relationships Between Drug Treatment Careers and Outcomes*. Evaluation Review, Vol. 22, No. 4, 496-519.

Castellani, B., Wedgeworth, R., Wootton, E., and L. Rugle. (1997). *A bi-directional theory of addiction: Examining coping and the factors related to substance relapse.* Addictive Behaviors, 22(1):139-144.

List of Readings for Orals

Professor: Juan Battle

Student: Anthony Buttaro, Jr.

Area: Logic of Inquiry & Quantitative Methodology

Logic of Inquiry

Alford Robert R., (1998), *The Craft of Inquiry: Theories, Methods, Evidence*, Oxford University Press, New York.

Dewey John, (1938), *Logic. The Theory of Inquiry*, Henry Holt & Co., New York.

Lieberson Stanley, (1985), *Making It Count. The Improvement of Social Research and Theory*, University of California Press, Berkeley-Los Angeles-CA.

Nagel Ernest, (1979), *The Structure of Science. Problems in the Logic of Scientific Explanation*, Hackett Publishing Company Inc., Indianapolis-IN.

Quantitative Methodology

Ordinary Least Squares Regression:

Berry William D., (1993), *Understanding Regression Assumption*, Sage Publications, Thousand Oaks- London-New Delhi.

Blalock Hubert Jr., (1963), *Correlated Independent Variables: The Problem of Multicollinearity*, Social Forces, Vol. 42, n. 2, pp. 233-37.

Tufte Edward, (1969), *A Note of Caution in Using Variables That Have Common Elements*, Public Opinion Quarterly, Vol. 33, n. 4, 622-626.

Von Eye Alexander and Schuster Christof, (1998), *Regression Analysis for Social Sciences*, Academic Press, San Diego-CA.

Applications:

Zhang Li-fang and Sternberg Robert J., (2002), *Thinking Styles and Teachers' Characteristics*, International Journal of Psychology, Vol. 37, n. 1, pp. 3-12.

Bråten Ivar and Strømsø Helge I., (2005), *The Relationship between Epistemological Beliefs, Implicit Theories of Intelligence, and Self-Regulated Learning among Norwegian Postsecondary Students*, British Journal of Educational Psychology, Vol. 75, pp. 539-565.

Logistic Regression:

Agresti Alan, (2002), *Categorical Data Analysis*, John Wiley & Sons Inc., Hoboken-NJ.

Menard Scott, (2002), *Applied Logistic Regression Analysis*, Sage Publications, Thousand Oaks- London-New Delhi.

Sofroniou Nick and Hutcheson Graeme D., (2002), *Confidence Intervals for the Predictions of Logistic Regression in the Presence and Absence of a Variance-Covariance Matrix*, Understanding Statistics, Vol. 1, n. 1, pp. 3-18.

Applications:

Dessens Jos, Jansen Wim and Ringdal Kristen, (1995), *Log-Linear Models in Comparative Research: A Paradigm Lost?*, European Sociological Review, Vol. 11, n. 3, pp. 261-271.

Kim Doo Hwan and Schneider Barbara, (2005), *Social Capital in Action: Alignment of Parental Support in Adolescents' Transition to Postsecondary Education*, Social Forces, Vol. 84, n. 2, pp. 1181-1206.

Structural Equation Modeling:

Bollen Kenneth A., (1989), *Structural Equations with Latent Variables*, John Wiley and Son, New York-Toronto.

Byrne Barbara, (2001), *Structural Equation Modeling with AMOS: Basic Concepts, Applications, and Programming*, Lawrence Erlbaum Associates Inc., Mahwah-NJ.

Kline Rex B., (2005), *Principles and Practice of Structural Equation Modeling*, The Guilford Press, New York-London.

Applications:

Kaplan David and George Rani, (1998), *Evaluating Latent Variable Growth Models through Ex-post Simulation*, Journal of Educational and Behavioral Statistics, Vol. 23, n. 3, pp. 216-235.

Kaplan David and Elliott Pamela R., (1997), *A Model-Based Approach to Validating Education Indicators Using Multilevel Structural Equation Modeling*, Journal of Educational and Behavioral Statistics, Vol. 22, n. 3, pp. 323-347.

Hierarchical Linear Modeling:

Blalock, Hubert M., (1984), *Contextual-Effects Models: Theoretical and Methodological Issues*, Annual Review of Sociology, Vol. 10, pp. 353-72.

Lee Valery E., (2000), *Using Hierarchical Linear Modeling to Study Social Contexts: The Case of School Effects*, Educational Psychologist, Vol. 35, n. 2, pp. 125-141.

Raudenbusch, Stephen W. and Bryk Anthony S., 2002. *Hierarchical Linear Models. Applications and Data Analysis Method*, Sage Publications, Thousand Oaks-London-New Delhi.

Applications:

Bryk Anthony S. and Thum Yeow Meng, (1989), *The Effects of High School Organization on Dropping Out: An Exploratory Investigation*, American Educational Research Journal, Vol. 26, n. 3, pp. 353-383.

Rumberger Russel W., (1995), *Dropping Out of Middle School: A Multilevel Analysis of Students and Schools*, American Educational Research Journal, Vol. 32, n. 3, pp. 583-625.

Missing Data:

Allison Paul D., (2001), *Missing Data*, Sage Publications, Thousand Oaks- London-New Delhi.

Shafer Joseph L. and Graham, John W., (2002), *Missing Data: Our View of the State of the Art*, Psychological Methods, Vol. 7, n. 2, pp. 147-177.

Rubin Daniel B., (1996), *Multiple Imputation After 18+ Years*, Journal of the American Statistical Association, Vol. 91, n. 434, pp. 473-489.

Examiner: Jeremy R. Porter
Examinee: Eric Ketcham

Logic of Inquiry

1. Alford, Robert R. (1998). *The Craft of Inquiry: theory, methods, evidence*. New York, NY: Oxford University Press.

2. Healy, Joseph F. (2015). *Statistics: A Tool for Social Research* (10th ed.). Belmont, CA: Wadsworth.

3. Lieberson, Stanley. (1985). *Making it Count: The improvement of social research and theory*. Berkeley, CA: University of California Press.

4. Nagel, Ernest. (1979). *The Structure of Science: Problems in the logic of scientific explanation*. Indianapolis, IN: Hackett Publishing Company Inc.

Ordinary Least Squares Regression

1. Berry, William D. (1993). *Understanding Regression Assumptions*. Thousand Oaks, CA: Sage Publication.

2. Blalock, Hubert Jr. (1963). "Correlated Independent Variables: The problem of multicollinearity." *Social Forces*, 42(2): 233-237.

3. Tufte, Edward. (1969). "A Note of Caution in Using Variables that have Common Elements." *Public Opinion Quarterly*, 33(4): 622-626.

4. Jaccard, James and Robert Turrisi. (2003). *Interaction Effects in Multiple Regression*. (2nd ed.). Thousand Oaks, CA: Sage Publications.

Application
Dustmann, Christian and Arthur Van Soest. (2002). "Language and the Earnings of Immigrants." *Industrial and Labor Relations Review*, 55(3): 473-492.

Logistic Regression

1

1. Agresti, Alan. (2014). *Categorical Data Analysis* (3rd ed.). Hoboken, NJ: John Wiley & Sons Inc.

2. Menard, Scott. (2002). *Applied Logistic Regression Analysis*. Thousand Oaks, CA: Sage Publications.

3. Sofroniou, Nick and Graeme D. Hutcheson. (2002). "Confidence Intervals for the Predictions of Logistic Regression and Absence of a Variance Covariance Matrix." *Understanding statistics*, 1(1): 3-18.

Application
Chiswick, Barry and Paul Miller. 2001. "A Model of Destination-Language Acquisition: Application to Male Immigrants in Canada." *Demography*, 38(3): 391-409.

Hierarchical Linear Modeling

1. Luke, Douglas. (2004). *Multilevel Modeling*. Thousand Oaks, CA: Sage Publications.

2. Blalock, Hubert M. (1984). "Contextual-Effects Models: Theoretical and methodological issues." *Annual Review of Sociology*, 10: 353-72.

3. Raudenbusch, Stephen W. and Anthony S. Bryck. (2002). *Hierarchical Linear Models: Applications and data analysis methods* (2nd ed.). Thousand Oaks, CA: Sage Publications.

Application
Tran, Van C. (2010). "English Gain vs. Spanish Loss?: Language assimilation among second-generation Latinos in young adulthood." *Social Forces* 89: 257-84.

Spatial Analysis

1. Porter, Jeremy R. and Frank M. Howell. (2012). *Geographical Sociology: Theoretical foundations and methodological applications in the sociology of location*. Dordrecht, Netherlands: Springer.

2. Jiang, Bin and Xiaobai Yao. (2010). "Geospatial Analysis and Modeling of Urban Structure and Dynamics: An overview." In Bin Jiang and Xiaobai Yao (Eds.) *Geospatial Analysis and Modeling of Urban Structure and Dynamics*. Dordrecht, Netherlands: Springer. pp. 3-11.

3. Lloyd, Crhistopher D. (2010). *Spatial Data Analysis.* New York: Oxford University Press.

Application

Porter, Jeremy R., Frank M. Howell and Lynn M. Hempel. (2014). "Old Times are Not Forgotten: The institutionalization of segregationist academies in the American South." *Social Problems,* 61(4): 576-601.

Missing Data

1. Allison, Paul D. (2002). *Missing Data.* Thousand Oaks, CA: Sage Publications.

2. Rubin, Daniel B. (1996). "Multiple Imputation After 18+ Years." *Journal of the American Statistical Association,* 91(434): 473-89.

3. Porter, Jeremy R. and Elaine Howard Ecklund. (2012). "Missing Data in Sociological Research: An overview of recent trends and an illustration for controversial questions, active nonrespondents and targeted samples," *American Sociologist,* 43(4): 448-468.

How did survey research develop over the past 80 years? What are the general pros and cons of using survey research? What is the starting point of a survey research?

- The Groves et al. (2009) Survey Methodology, 2nd Ed. NY, Wiley, Ch1 & 2

- Wicker, A.W. (1985). Getting out of our conceptual ruts: strategies for expanding conceptual frameworks. *American Psychologist*, 40(10), 1094-1103.
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- Groves RM. (2011). Three eras of survey research. Public Opinion Quarterly, 75 (5): 861–871.

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David Monaghan
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Advisor: Mary Clare Lennon

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Examiner: Jeremy R. Porter
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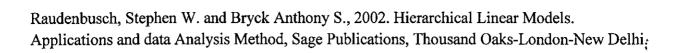
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Quantitative Methods Orals List
Advisor: Juan Battle
February 21, 2007 – FINAL
Exam Sept 10, 2007

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