

PLSC 504: “Topics in Political Methodology”

Other Useful Resources

Fall 2020

General

Altman, Micah, Jeff Gill and Michael McDonald. 2003. *Statistical Computing for the Social Scientist*. New York: Wiley.

Eliason, S. R. 1993. *Maximum Likelihood Estimation: Logic and Practice*. Newbury Park, CA: Sage.

Evans, Merran, Nicholas Hastings and Brian Peacock. 2000. *Statistical Distributions*, 3rd Ed. New York: Wiley.

Gelman, Andrew, Jennifer Hill, and Aki Vehtari. 2020. *Regression and Other Stories*. New York: Cambridge University Press.

Greene, William H. 2007. *Econometric Analysis*, 6th Ed. Upper Saddle River, NJ: Prentice-Hall.

King, Gary. 1989. *Unifying Political Methodology: The Likelihood Theory of Statistical Inference*. Ann Arbor: University of Michigan Press. Originally published by Cambridge University Press.

Pawitan, Yudi. 2001. *In All Likelihood*. New York: Oxford University Press.

Venables, W. N., and B. D. Ripley. 2002. *Modern Applied Statistics with S*, 4th Ed. Berlin: Springer-Verlag.

Ward, Michael D., and John S. Ahlquist. 2018. *Maximum Likelihood for Social Science: Strategies for Analysis*. New York: Cambridge University Press.

GLMs, etc.

Agresti, Alan. 2002. *Categorical Data Analysis*, 2nd Ed. New York: Wiley.

Borooah, Vani K. 2001. *Logit and Probit: Ordered and Multinomial Models*. Newbury Park, CA: Sage.

Cameron, A. Colin, and Pravin K. Trivedi. 1998. *Regression Analysis of Count Data*. New York: Cambridge University Press.

Cameron, A. Colin, and Pravin K. Trivedi. 2005. *Microeconometrics: Methods and Applications*. New York: Cambridge University Press.

Cramer, J. S. 1986. *Econometric Applications of Maximum Likelihood Methods*. New York: Cambridge.

- Dobson, Annette J., and Adrian Barnett. 2008. *An Introduction to Generalized Linear Models*, 3rd Ed. London: Chapman & Hall.
- Fahrmeier, Ludwig, and Gerhard Tutz. 2010. *Multivariate Statistical Modelling Based on Generalized Linear Models*, 2nd Ed. Berlin: Springer-Verlag.
- Gelman, Andrew, Jennifer Hill, and Aki Vehtari. 2020. *Regression and Other Stories*. Cambridge: Cambridge University Press.
- Gill, Jeff. 2000. *Generalized Linear Models: A Unified Approach*. Thousand Oaks, CA: Sage Publications.
- Gourieroux, Christian. 2000. *Econometrics of Qualitative Dependent Variables*. New York: Cambridge University Press.
- Hardin, James W., and Joseph W. Hilbe. 2007. *Generalized Linear Models and Extensions*, 2nd Ed. College Station, TX: Stata Press.
- Hastie, Trevor, and Robert Tibshirani. 1990. *Generalized Additive Models*. New York: Chapman and Hall.
- Hosmer, David W. Jr., and Stanley Lemeshow. 2000. *Applied Logistic Regression*, 2nd Ed. New York: Wiley.
- Liao, Tim Futing. 1994. *Interpreting Probability Models: Logit, Probit and Other Generalized Linear Models*. Thousand Oaks, CA: Sage.
- Lindsey, James K. 2002. *Modelling Frequency and Count Data*. New York: Oxford University Press.
- Long, J. Scott, and Jeremy Freese. 2006. *Regression Models for Categorical Dependent Variables Using Stata*, 2nd Ed.. College Station, TX: Stata Press.
- Maddala, G. S. 1983. *Limited-Dependent and Qualitative Variables in Econometrics*. New York: Cambridge University Press.
- McCullagh, P., and J. A. Nelder. 1989. *Generalized Linear Models*, 2nd Ed. New York: Chapman and Hall.
- McCulloch, Charles E., Shayle R. Searle, and John M. Neuhaus. 2008. *Generalized, Linear, and Mixed Models*. New York: Wiley.
- Simonoff, Jeffrey S. 2006. *Analyzing Categorical Data*. New York: Springer.
- Wood, Simon. 2006. *Generalized Additive Models: An Introduction with R*. New York: Chapman and Hall.

Wright, Daniel B., and Kamala London. 2009. *Modern Regression Techniques Using R: A Practical Guide*. Thousand Oaks, CA: Sage.

Causal Inference with Observational Data

Cattaneo, Matias, Nicolas Idrobo, and Rocio Titiunik. 2020. *A Practical Introduction to Regression Discontinuity Designs: Foundations*. Cambridge Elements: Quantitative and Computational Methods for Social Science, Cambridge University Press.

Imbens, Guido W., and Donald B. Rubin. 2015. *Causal Inference for Statistics, Social, and Biomedical Sciences: An Introduction*. New York: Cambridge University Press.

Morgan, Stephen L., and Christopher Winship. 2014. *Counterfactuals and Causal Inference: Methods And Principles For Social Research*, 2nd Ed. New York: Cambridge University Press.

Pearl, Judea, Madelyn Glymour, and Nicholas P. Jewell. 2016. *Causal Inference in Statistics: A Primer*. New York: Wiley.

Wing, Coady, Kosali Simon, and Ricardo A. Bello-Gomez. 2018. “Designing Difference in Difference Studies: Best Practices for Public Health Policy Research.” *Annual Review of Public Health* 39:453-469.

Time Series Analysis

Box, George E. P., Gwilym M. Jenkins and Gregory C. Reinsel. 1994. *Time Series Analysis: Forecasting and Control*, 3rd Ed. New York: Prentice-Hall.

Box-Steffensmeier, Janet M., John R. Freeman, Matthew P. Hitt, and Jon C.W. Pevehouse. 2014. *Time Series Analysis for Social Sciences*. New York, NY : Cambridge University Press.

Enders, William. 2010. *Applied Econometric Time Series*, 3rd Edition. John Wiley & Sons.

Hamilton, James D. 1994. *Time Series Analysis*. Princeton, NJ: Princeton University Press.

Pfaff, Bernhard. 2008. *Analysis of Integrated and Cointegrated Time Series with R*. New York: Springer.

Models for Panel and TSCS Data

Arellano, Manuel. 2002. *Panel Data Econometrics*. Oxford: Oxford University Press.

Baltagi, Badi. 2008. *Econometric Analysis of Panel Data*, 4th Ed. New York: Wiley.

- Diggle, P., P. Heagerty, K-Y Liang, and S. Zeger. 2002. *Analysis of Longitudinal Data*, 2nd Ed. Oxford: Oxford University Press.
- Finkel, Stephen E. 1995. *Causal Analysis With Panel Data*. Thousand Oaks, CA: Sage Publications.
- Frees, Edward W. 2004. *Longitudinal and Panel Data: Analysis and Applications in the Social Sciences*. New York: Cambridge University Press.
- Hand, David and Martin Crowder. 1996. *Practical Longitudinal Data Analysis*. London: Chapman & Hall.
- Hsaio, Cheng. 2014. *The Analysis of Panel Data*, 3rd Ed. New York: Cambridge University Press.
- Lee, Myoung-Jae. 2002. *Panel Data Econometrics: Methods-of-Moments and Limited Dependent Variables*. Academic Press.
- Matyas, Laszlo and Patrick Sevestre, eds. 1996. *The Econometrics of Panel Data: A Handbook of the Theory with Applications*. 2nd Revised Ed. Dordrecht: Kluwer Academic Publishers.
- Says, Lois. 1989. *Pooled Time Series Analysis*. Thousand Oaks, CA: Sage Publications.
- Singer, Judith D. and John B. Willett. 2003. *Applied Longitudinal Data Analysis: Modeling Change and Event Occurrence*. New York: Oxford University Press (also discusses survival analysis).
- Wooldridge, Jeffrey M. 2002. *Econometric Analysis of Cross Section and Panel Data*. Cambridge: MIT Press.

Survival / Hazard / Event History Models

- Beck, Nathaniel. 1998. "Modeling Space and Time: The Event History Approach." In E. Scarbrough and E. Tanenbaum, eds., *Research Strategies in the Social Sciences*. London: Oxford University Press.
- Blossfeld, Hans-Peter and Gtz Rohwer. 2001. *Techniques of Event History Modeling: New Approaches to Casual Analysis*, 2nd Ed. Mahwah, NJ: Lawrence Erlbaum.
- Box-Steffensmeier, Janet M. and Bradford Jones. 1997. "Time is of the Essence: Event History Models in Political Science." *American Journal of Political Science* 41(October):1414-61.
- Chung, Ching-Fan, Peter Schmidt, and Ann D. Witte. 1991. "Survival Analysis: A Survey." *Journal of Quantitative Criminology* 7(March):59-98.
- Collett, Dave. 2003. *Modeling Survival Data in Medical Research*, 2nd Ed. London: Chapman & Hall.

- Cox, David Roxbee and Dallin Oakes. 1984. *Analysis of Survival Data*. London: CRC/Chapman & Hall.
- Fleming, Thomas R., and David P. Harrington. 1991. *Counting Processes and Survival Analysis*. New York: Wiley.
- Hosmer, D., and Stanley Lemeshow. 1999. *Applied Survival Analysis: Regression Modeling of Time to Event Data*. New York: Wiley.
- Ibrahim, Joseph G., Ming-Hui Chen, and Debajyoti Sinha. 2005. *Bayesian Survival Analysis*. New York: Springer.
- Kalbfleisch, J. D. and R. L. Prentice. 2002. *The Statistical Analysis of Failure Time Data*, 2nd Ed. New York: Wiley.
- Kiefer, Nicholas M. 1988. "Economic Duration Data and Hazard Functions." *Journal of Economic Literature* 26(June):646-79.
- Klein, John P., and Melvin L. Moeschberger. 1997. *Survival Analysis: Techniques for Censored and Truncated Data*. New York: Springer-Verlag.
- Lancaster, Tony. 1990. *The Econometric Analysis of Transition Data*. New York: Cambridge University Press.
- Lawless, J. F. 2002. *Statistical Methods and Models for Lifetime Data*, 2nd Ed. New York: Wiley.
- Le, Chap T. 1997. *Applied Survival Analysis*. New York: Wiley.
- Vermunt, Jeroen K. 1997. *Log-Linear Models for Event Histories*. Thousand Oaks, CA: Sage Publications.
- Yamaguchi, Kazuo. 1991. *Event History Analysis*. Newbury Park, CA: Sage.

Measurement and Text Analysis

- Borg, Ingwer, and Patrick Groenen. 2005. *Modern Multidimensional Scaling: Theory and Applications*, Second Edition. New York: Springer.
- Boyd-Graber, Jordan, Yuening Hu, and David Mimno. 2011. *Applications of Topic Models*. Breda: NOW Publishers.
- De Boeck, Paul, and Mark Wilson, Eds. 2004. *Explanatory Item Response Models: A Generalized Linear and Nonlinear Approach*. New York: Springer.

- Everitt, Brian S. 2009. *Multivariable Modeling and Multivariate Analysis for the Behavioral Sciences*. New York: Chapman & Hall/CRC.
- Hair, Joseph. 2013. *Multivariate Data Analysis*. New York: Pearson.
- Hambleton, Ronald K., H. Swaminathan, and H. Jane Rogers. 1991. *Fundamentals of Item Response Theory*. Newbury Park CA: Sage Publications.
- Hofmann, Markus, and Andrew Chisholm. 2015. *Text Mining and Visualization: Case Studies Using Open-Source Tools*. New York: Chapman & Hall/CRC.
- Johnson, Richard A., and Dean W. Wichern. 2012. *Applied Multivariate Statistical Analysis*. New York: Pearson.
- Kwartler, Ted. 2017. *Text Mining in Practice with R*, 1st Ed. New York: Wiley.
- Manning, Christopher D., Prabhakar Raghavan and Hinrich Schutze, 2008. *Introduction to Information Retrieval*. New York: Cambridge University Press. <https://nlp.stanford.edu/IR-book/>
- McIver, John, and Edward G. Carmines. 1981. *Unidimensional Scaling*. New York: Sage.
- Mislevy, Robert. 2018. *Sociocognitive Foundations of Educational Measurement*, 1st Ed. New York: Routledge.
- Rencher, Alvin C., and William F. Christensen. 2012. *Methods of Multivariate Analysis*. New York: Wiley.
- Silge, Julia, and David Robinson. 2017. *Text Mining with R: A Tidy Approach*, 1st Ed. Newton, MA: O'Reilly Media.
- Spector, Paul E. 1992. *Summated Rating Scale Construction*. New York: Sage.
- Wierzchon, Slawomir, and Mieczyslaw Klopotek. 2018. *Modern Algorithms of Cluster Analysis*. New York: Springer.