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## Subject: Statistics, Models, and Measurement

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## Subject: Statistics, Models, and Measurement

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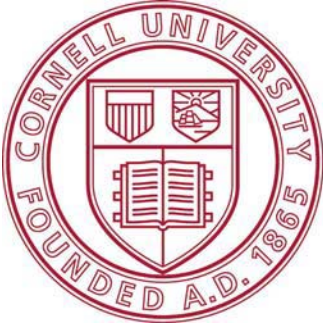
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### **Comments**

### **Suggested Citation**

LaCette, S. (Compiler). (2006). *Subject: Statistics, models, and measurement*. Ithaca, NY: Cornell University, School of Industrial and Labor Relations, M. P. Catherwood Library.

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ILR School Theses and Dissertations: a listing

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October, 2006

### Statistics, Models, and Measurement

2006. M.S. Barger, Katherine. **Mixtures of exponential distributions to describe the distribution of Poisson means in estimating the number of unobserved classes.** Advisor: J. Bunge.
2005. Ph.D. Deneogean, Lisa Renee. **Improved Approximations of the Density Functions of Estimators in Population Genetics.** Advisor: M. Wells.
2005. Ph.D. Yu, Long. **Bayesian Analysis of Levy Processes with Financial Applications.** Advisor: M. Wells.  
*Statistics.*
2004. Ph.D. El-Sebakhy, Emad Ahmad. **Functional networks as a new framework for solving pattern classification problems.** Advisor: A. Hadi.  
*Pattern recognition systems. Statistical decision.*
2004. M.S. Horvath, Peter James. **Juror confidence in police testimony : corrective codification of survey response data.** Advisor: M. Wells.
2004. Ph.D. Zaretski, Russell Lee. **Conditional properties of a parametric bootstrap.** Advisor: T. DiCiccio.
2003. Ph.D. El-Sheneity, Sahar Abdel-Monem. **Alternative methods to the maximum likelihood in the logistic discrimination model.** Advisor: A. Hadi.
2003. Ph.D. Zhang, Dabao. **Bayesian inference for differential gene expression data.** Advisor: M. Wells.
2001. M.S. Wu, Yanyan. **Bayesian estimation of optimal portfolio weights.** Advisor: M. Wells.  
*Portfolio management Statistics. Bayesian statistical decision theory Statistics.*
2001. M.S. Zhang, Dabao. **Simultaneous equation models with mixed coefficients : identification and estimation.** Advisor: M. Wells.
2000. M.S. Eshleman, Larry Milton. **Prediction of cellular mobile handoffs using a sensor-based detection strategy.** Advisor: M. Wells (Statistics).
2000. Ph.D. Hogan, Steven Cannon. **Nonparametric estimation of stochastic volatility models.** Advisor: M. Wells.
1998. M.S. Shute, Rachel E. **Assessing punitive damages and adjusting census counts : a hierarchical Bayesian approach.** Advisor: M. Wells.  
*Exemplary damages--United States--Statistical methods. Regression analysis. United States--Census--Statistical methods.*

1998. Ph.D. Trevor, Charles Oliver. **Establishing new relationships within a traditional voluntary turnover model : the effects of a multidimensional approach to actual ease of movement in the job market.** Advisor: B. Gerhart.  
*Labor turnover United States. Labor mobility United States.*
1998. Ph.D. Wu, Samuel Shangwu. **Nonparametric estimation of hazard functions.** Advisor: M. Wells.
1997. Ph.D. Baird, William Russell. **A Monte Carlo method for ordering markers and genes on a genetic map.** Advisor: M. Wells.  
*Gene mapping Statistical methods. Genetics Statistical methods. Monte Carlo method.*
1997. Ph.D. Borkowf, Craig Brian. **The empirical and parametric bivariate quantile-partitioned distributions.** Advisor: M. Wells.
1997. M.S. Debgupta, Shub. **The effects of Indian anti-retrenchment laws on a multi-sector economy.** Advisor: G. Fields.  
*Labor market India Econometric models. Unemployment India Econometric models. Wages India Econometric models. Job security Law and legislation India. Labor laws and legislation India.*
1997. Ph.D. Freeman-Gallant, Adrienne Michele. **Minimum diameter confidence procedures.** Advisor: J. Bunge.  
*Parameter estimation.*
1997. Ph.D. Wu, Yuhai. **Minimax estimation of nonparametric regression through white noise problem.** Advisor: M. Wells.
1996. Ph.D. Cooper, Michael Gordon. **The impact of liquidity constraints on the search behavior of unemployed workers.** Advisor: G. Jakubson.  
*Job hunting Finance Econometric models. Employment re-entry Econometric models. Unemployment Econometric models. Liquidity (Economics).*
1996. M.S. Olsen, Cara Hendricks. **Hierarchical Bayes models for small area estimation.** Advisor: M. Wells.  
*Estimation theory. Bayesian statistical decision theory.*
1996. M.S. Voldman, Pascale. **Nonlinear orthogonal distance regression with application to Lorenz curves.** Advisor: A. Hadi.  
*Regression analysis. Lorenz curve. Parameter estimation. Nonlinear theories.*
1995. M.S. Freeman-Gallant, Adrienne Michele. **Orthogonal parameters.** Advisor: J. Bunge.  
*Parameter estimation.*

1995. M.S. Hutcheson, Matthew C. **Trimmed resistant weighted scatterplot smooth.** Advisor: P. Velleman.  
*Smoothing (Statistics). Digital filters (Mathematics). Numerical analysis.*
1995. Ph.D. Walker, John Harris. **The partially ordered linear model.** Advisor: P. Velleman.  
*Linear models (Statistics). Regression analysis. Parameter estimation.*
1995. Ph.D. Wang, Weijing. **Estimation and modeling in bivariate survival analysis.** Advisor: M. Wells.  
*Survival analysis (Biometry). Multivariate analysis. Estimation theory.*
1994. M.S. Baird, William Russell. **Chaotic dynamics of the logistic equation and fractal dimensions of invariant sets.** Advisor: J. Bunge.  
*Logistic distribution. Chaotic behavior in systems. Invariant measures. Fractals.*
1994. Ph.D. Lando, David. **Three essays on contingent claims pricing.** Advisor: M. Wells and Professor Jarrow.
1994. Ph.D. Lu, Horng-Shing. **Latent function and latent density estimation.** Advisor: M. Wells.  
*Estimation theory. Nonparametric statistics.*
1993. M.S. Brooks-Cooper, Candace. **The effect of financial incentives on the standardized test performance of high school students.** Advisor: J. Bishop.  
*Educational tests and measurements United States. Motivation in education.*
1993. M.S. Joo, Hyeseon. **An empirical evaluation of procedures for the identification of outliers in multivariate data.** Advisor: A. Hadi.  
*Outliers (Statistics). Multivariate analysis.*
1993. Ph.D. Okunishi, Yoshio. **Internal promotion, wage profiles and mandatory retirement in Japan.** Advisor: R. Hutchens.  
*Retirement, Mandatory Japan Econometric models. Retirement age Japan Econometric models. Promotions Japan Econometric models. Executives Salaries, etc. Japan Econometric models.*
1993. M.S. Walker, John Harris. **Influence measures for the GMANOVA model.** Advisor: P. Velleman.  
*Regression analysis. Multivariate analysis.*
1993. M.S. Wang, Weijing. **Linear models and covariance structures for elliptical distributions.** Advisor: M. Wells.  
*Distribution (Probability theory). Differential equations, Elliptic. Multivariate analysis. Linear models (Statistics).*
1992. M.S. Fitzpatrick, Mary Francis. **Estimation of parameters from incomplete data for nonlinear models with applications to compartmental models.** Advisor: M.

Wells.

*Parameter estimation. Nonlinear functional analysis. Linear models (Statistics). Compartmental analysis (Biology).*

1992. M.S. Gunasekera, Suparni. **Simultaneous inference procedures using the method of quasi-likelihood with an application to feedback models.** Advisor: M. Wells.

*Estimation theory Asymptotic theory. Parameter estimation. Quasilinearization.*

1992. Ph.D. Jersky, Brian. **Identifying and modeling non-stationarity and non-linearity in time series data.** Advisor: A. Hadi.

*Time series analysis. Differential equations, Nonlinear.*

1992. Senior Honors Sturman, Michael Craig. **Validation of expert systems.**  
*Expert systems (Computer science) Validation. Cafeteria benefit plans United States Data processing. Personnel management Data processing.*

1992. Ph.D. Yeo, Kwee Poo. **Density estimation for bivariate censored data.** Advisor: M. Wells.

*Failure time data analysis. Estimation theory Asymptotic theory. Nonparametric statistics Asymptotic theory. Multivariate analysis. Kernel functions.*

1991. M.S. Wasserman, Paula Gail. **A Bayesian analysis of a mixture of exponentials.** Advisor: M. Wells.

*Bayesian statistical decision theory. Mixture distributions (Probability theory). Exponential families (Statistics).*

1990. Ph.D. Belzil, Christian. **Unemployment insurance, unemployment and labour market transitions : an empirical analysis with Canadian data.** Advisor: R. Ehrenberg.

*Unemployment Effect of unemployment insurance on Econometric models. Unemployment Canada Econometric models. Insurance, Unemployment Canada Econometric models. Labor turnover Canada Econometric models.*

1990. Ph.D. Bognanno, Michael Leonard. **An empirical test of tournament theory.** Advisor: R. Ehrenberg.

*Incentives in industry Mathematical models. Merit pay Mathematical models. Employee competitive behavior Mathematical models. Wages and labor productivity Mathematical models.*

1990. M.S. Jersky, Brian. **Statistical analysis of employment discrimination data.** Advisor: A. Hadi.

*Discrimination in employment Statistical methods.*

1990. M.S. Lu, Horng-Shing. **Lattice structures in the bootstrap and nonparametric bootstrap inference for censored data.** Advisor: M. Wells.

*Estimation theory. Error analysis (Mathematics). Sampling (Statistics). Nonparametric statistics. Lattice theory.*

1989. M.S. Chang, Ling-Jiuan Joann. **Objective measures of alternative job opportunities and voluntary turnover.** Advisor: B. Gerhart.  
*Labor turnover United States Econometric models. Labor mobility United States Econometric models. Unemployment United States Econometric models. Job vacancies United States Econometric models. Job satisfaction United States Measurement.*
1988. Ph.D. Chan, Elaine K. **Labor market consequences of export-led growth with sector-specific wage floors.** Advisor: G. Fields.  
*Foreign trade and employment Econometric models. Wages Econometric models.*
1988. Ph.D. Chaykowski, Richard Paul. **The determination of nonwage collective bargaining outcomes : an application to Canadian data.** Advisor: J. Burton.  
*Employee fringe benefits Canada. Collective bargaining Canada Econometric models.*
1987. M.S. Temescu, Carol Davis. **An empirical comparison of adjusted models used to analyze pay data for discrimination.** Advisor: G. Milkovich.  
*Pay equity. Wages Mathematical models. Discrimination in employment.*
1986. M.S. Loria, Catherine Marie. **Approximate PRESS residuals and statistics for logistic regression.** Advisor: L. Stefanski.  
*Regression analysis.*
1985. Ph.D. Greene, Tom H. **Simplicity and structure in underlying systems of linear relationships.** Advisor: P. Velleman.  
*Matroids. Multivariate analysis.*
1985. Ph.D. Phelan, Michael. **Nonparametric inference from Poisson-type counting processes.** Advisor: I. Blumen.  
*Poisson processes. Nonparametric statistics.*
1985. Ph.D. Schwarz, Joshua Lee. **The role of public income security programs in union wage determination.** Advisor: D. Lipsky.  
*Income maintenance programs United States. Wages United States Mathematical models.*
1985. Ph.D. Sherman, Daniel Ronald. **Determinants of the individual demand for higher education by sectoral control of institution.** Advisor: R. Ehrenberg.  
*College choice United States. College choice Mathematical models.*
1983. Ph.D. Bazzoli, Gloria J. **The early retirement decision : the influence of health, pensions and social security.** Advisor: G. Fields.  
*Early retirement United States Mathematical models.*
1983. Ph.D. Gangopadhyay, Shubhashis. **Poverty, employment and choice of techniques in a labour surplus economy.** Advisor: G. Fields.  
*Economic policy--Mathematical models. Economic development--Mathematical models.*



1983. M.S. Greene, Tom H. **The analysis of near linear dependencies among the explanatory variables in ordinary least squares regression.** Advisor: P. Velleman.  
*Regression analysis.*
1983. Ph.D. Koys, Daniel J. **Managerial goal setting and strategy development : a model of their effects on behavior and performance.** Advisor: L. Dyer.  
*Goal setting in personnel management. Performance standards.*
1983. M.S. Schwarz, Joshua Lee. **The effect of unions on productivity in the newspaper industry.** Advisor: D. Lipsky.  
*Labor productivity United States Mathematical models. Printing industry Employees Labor unions United States. Newspaper publishing United States.*
1983. M.S. Sherman, Daniel Ronald. **Teachers' unions and the production and distribution of educational outcomes : the case of California.** Advisor: R. Ehrenberg.  
*Collective bargaining Education United States Mathematical models. Education United States Mathematical models. Collective bargaining Education California.*
1982. M.S. Bechtell, Michele Louise. **A confidence interval for the slope coefficient of the resistant line.** Advisor: P. Velleman.  
*Confidence intervals. Regression analysis. Nonparametric statistics. Robust statistics.*
1982. Ph.D. Li, Elizabeth Hon-ming. **A theoretical and empirical analysis of the compensating differentials for cyclical employment variations.** Advisor: R. Ehrenberg.  
*Human capital--Mathematical models. Wages--Mathematical models. Business cycles.*
1982. M.S. Phelan, Michael Joseph. **A nonparametric procedure for estimation and classification in bivariate distributions.** Advisor: I. Blumen.  
*Nonparametric statistics. Distribution (Probability theory).*
1981. M.S. Bazzoli, Gloria J. **The decision to migrate : a theory of the joint choice of migration and job training investments.** Advisor: R. Hutchens.  
*Labor mobility United States Mathematical models. Migration, Internal United States Mathematical models. Employees Training of United States Mathematical models.*
1981. M.S. Dodt, Harold Renold. **A fixed cost explanation for unionists' hours of work.** Advisor: R. Butler.  
*Hours of labor United States Mathematical models. Labor unions United States Mathematical models. Labor supply United States Mathematical models. Employment (Economic theory) Mathematical models.*
1981. Ph.D. Dumas, Agelia Ypelaar. **A generalization of univariate Lehmann populations to the bivariate case with an application to Kendall's tau.** Advisor: I.

Blumen.

*Multivariate analysis. Mathematical Statistics.*

1981. M.S. Edelstein, Steven Arthur. **An empirical investigation of the behavior of bounded-influence regression estimators.** Advisor: P. Velleman.

*Regression analysis.*

1981. M.S. Lichtenstein, Carolyn Helen. **Ridge regression and its effect on high leverage points in the data.** Advisor: P. Velleman.

*Regression analysis. Correlation (Statistics). Least squares.*

1981. Ph.D. Mauro, Martin John. **Strikes as a result of imperfect information.** Advisor: R. Ehrenberg.

*Collective bargaining--Mathematical models. Strikes and lockouts.*

1980. Ph.D. Luckett, James Pearson. **Estimating unemployment duration and unemployment flows from cross-section data.** Advisor: R. Ehrenberg.

*Unemployment--Mathematical models. Labor turnover--Mathematical models.*

1980. M.S. McDermott, Edward Patrick, United States. National Labor Relations Board. and United States. **An analysis of the reinstatement remedy under the National Labor Relations Act.** Advisor: D. Cullen.

*Employees Reinstatement Law and legislation United States. Employees Dismissal of Law and legislation United States. Regression analysis.*

1980. Ph.D. Scherer, Peter Andrew. **Wage policies and income distribution in an open economy with special reference to the Australian context.** Advisor: R. Ehrenberg.

*Wage-price policy Australia Mathematical models. Income distribution Australia Mathematical models.*

1979. Ph.D. Allen, Isabel Elaine. **Some properties of estimated asymptotic variances and covariances for loglinear models in multidimensional contingency tables.** Advisor: I. Francis.

*Contingency tables. Analysis of variance.*

1979. M.S. Kaplan, Bruce Alan. **A comparison of methods and programs for computing variances of estimators from complex sample surveys.** Advisor: I. Francis.

*Analysis of variance. Sampling (Statistics).*

1977. M.S. Driscoll, Eileen Frances. **Some measures of regression package performance.** Advisor: I. Francis.

1977. Ph.D. Kane, William Duncan Jr. **Technology and the perception of power.** Advisor: S. Bacharach.

*Power (Social sciences) Mathematical models. Technological complexity. Organizational behavior. Power (Social sciences).*

1977. M.S. Miller, John E. **Modeling syntactic performance with a probabilistic phrase structure grammar.** Advisor: I. Francis.  
*Linguistic models. Grammar, Comparative and general Syntax.*
1976. Ph.D. Bobko, Philip. **On two new measures of multiple rank correlation.** Advisor: I. Blumen.  
*Correlation (Statistics).*
1975. M.S. Pinciario, Susan Jeanne. **The small sample behavior of Kendall's tau under a specific alternative hypothesis.** Advisor: I. Blumen.  
*Kendall, Maurice G. 1907-. Sampling (Statistics).*
1975. M.S. Valliant, Richard L. **A comparison of three mobility models.** Advisor: P. McCarthy.  
*Labor mobility Mathematical models.*
1973. M.S. Conklyn, Elizabeth Deborah. **A test of the four-factor model of decision-making.** Advisor: N. Rosen.  
*Decision making Mathematical models. Decision making Case studies.*
1973. Ph.D. Farbman, Michael Edward. **An econometric analysis of variations in the size distribution of family incomes in U. S. cities, 1960.** Advisor: W. Galenson.  
*Income United States. Income Mathematical models. Economics, Mathematical.*
1972. M.S. Miller, Renée Helen. **Estimation of parallel multiple regression equations when an additional unclassified observation is available.** Advisor: I. Blumen.  
*Mathematical statistics.*
1972. Ph.D. Swimmer, Eugene Roy. **Measurement of the effectiveness of urban law enforcement; a simultaneous equations approach.** Advisor: L. Perl.  
*Law enforcement United States. Cities and towns United States. Criminals United States. United States Social policy.*
1971. Ph.D. Arbuthnot, Jack Braeden. **Field independence and maturity of moral judgement, critical distinctive feature analysis, and perceived locus of control.** Advisor: L. Gruenfeld.  
*Perception. Psychometrics. Psychology.*
1971. M.S. Mangold, Donald Carl. **A statistic for testing grouped correlated variates.** Advisor: I. Blumen.  
*Correlation (Statistics). Statistics.*
1970. Ph.D. Chapman, David Welland. **Cluster sampling and approximate distribution-free confidence intervals for a median.** Advisor: P. McCarthy.  
*Sampling (Statistics). Mathematical statistics.*

1970. M.S. Gilman, Barry Martin. **Effect of basing exclusion intervals on sample data for binomial observations subject to misclassification.** Advisor: P. McCarthy.  
*Mathematical statistics. Error analysis (Mathematics).*
1969. M.S. Butelmann, Aurelio. **Productivity and wage determination: a microeconomic model for the Gran Minería of copper in Chile.** Advisor: R. Raimon.  
*Copper industry and trade Chile. Wages Copper industry Chile. Wages and labor productivity Chile. Labor economics Mathematical models.*
1968. M.S. Segre, Malvina. **The Buenos Aires fertility study: estimation of variance by the balanced half-sample replication method and analysis of some results of the survey.** Advisor: P. McCarthy.  
*Fertility. Argentina Population. Argentina Statistics, Vital.*
1967. Ph.D. Balk, Walter L. **Certain social psychological aspects of supervisory performance quantification in large work organizations.**  
*Supervision of employees. Psychology, Industrial. Employee attitude surveys. Work measurement. Organization.*
1967. M.S. Wells, Mary Finan. **An approximate bivariate confidence region.**  
*Mathematical statistics. Sampling (Statistics).*
1967. M.S. Wiseman, Frederick. **Procedures for ranking  $n$  elements when only  $k$  ( $k$  less than  $n$ ) can be compared at a single time.**  
*Mathematical statistics.*
1966. M.S. Chapman, David Welland. **An approximate test of independence based on replications of a complex sample survey design.**  
*Sampling (Statistics). Mathematical statistics.*
1966. Ph.D. Goodman, Paul Samuel. **A study of time perspective: measurement and correlates.**  
*Time perspective. Psychology, Industrial. Organization.*
1966. Ph.D. Howard, William Anthony. **Money wage determination in United States manufacturing industry: a statistical model derived from an analysis of the variables involved in the Eckstein and Wilson model of wage determination.**  
*Wages United States. Wages.*
1964. M.S. McPartland, James Michael. **On the multivariate analysis of interaction for nominal variables.**  
*Psychometrics. Scale analysis (Psychology). Social sciences Methodology.*
1963. Ph.D. Hulin, Charles Lee. **A linear model of job satisfaction.**  
*Job satisfaction.*

1961. M.S. Garza-Hernandez, Thomas. **An approximate test of homogeneity on the basis of a stratified random sample.**

*Mathematical statistics.*

1961. Ph.D. Rushforth, Norman Burleigh. **A comparison of sample correlation matrices and a multivariate analysis of job concepts of selected industrial executive groups.**

*Matrices. Mathematics. Executives.*

1958. M.S. El-Agizy, Mostafa N. **Nonparametric tests for trend : an experimental investigation of power.**

*Nonparametric statistics.*