



## TEACHING Courses taught --

Principles	
Industrial Organization	(graduate and undergraduate)
Regulation of Industry	(graduate and undergraduate)
Econometrics	
Micro Economics	
Entrepreneurship	
Managerial Economics	(MBA program and undergraduate)
Corporate Finance	
Law and Economics	

## RESEARCH

### Publications:

#### A. Refereed Journals

1. "Theoretical Restrictions on the Parameters of Indirect Addilog Demand Equations," (with J.S. Akin), Econometrica, Vol. 47, May 1979, pp. 779-780.
2. "Plant Size, Plant Factor, and the Shape of the Average Cost Function in Electric Power Generation: A Nonhomogeneous Capital Approach," The Bell Journal of Economics, Vol. 10, Autumn 1979, pp. 549-565.
3. "The Distributive Implications of Monopoly Power: A General Equilibrium Analysis," (with R. Lankford), Southern Economic Journal, Vol. 46, January 1980, pp. 918-924.
4. "The Time Allocation Decision and Achievement Patterns of Young Children," (with J.S. Akin), Economics of Education Review, Vol. 2, Fall 1982, pp. 307-330.
5. "Characteristics of Acquired Firms: Fixed and Random Coefficients Probit Analysis," (with R.S. Harris, D.K. Guilkey, and W.T. Carleton), Southern Economic Journal, Vol. 49, July 1982, pp. 164-184.
6. "An Empirical Analysis of the Role of the Medium of Exchange in Mergers," (with R.S. Harris, D.K. Guilkey, and W.T. Carleton), Journal of Finance, Vol. 37, June 1983, pp. 813-826.
7. "The Role of Market Structure in Merger Behavior," (with R.S. Harris and W.T. Carleton), Journal of Industrial Economics, Vol. 32, March 1984, pp. 293-312.
8. "Bid Depositories and Antitrust," Journal of Forensic Economics, Vol. 2, No. 3, August 1989, pp. 31-54.
9. "Influences on the Extent of Breast-Feeding: A Prospective Study in the Philippines," (with B.M. Popkin, D.K. Guilkey, J.S. Akin, L. Adair, and W. Fliieger), Demography, Vol. 28, No. 2, May 1991, pp. 181-199.
10. "Mergers and Social Welfare in U.S. Manufacturing 1985-1986," (with Sang-Kwon Kim), Southern Economic Journal, Vol. 59, No. 4, April 1993, pp. 701-20.

11. "Infant Feeding Patterns and the Marketing of Infant Foods in the Philippines," (with David K. Guilkey), Economic Development and Cultural Change, Vol. 43, No. 2, January 1995, pp. 369-399.
12. "Family Planning Program Structure and Performance in West Africa," (with Guy Stecklov, and Alfred Adewuyi), International Family Planning Perspectives, Vol 25, Supplement (January 1999), ppS22-S29.
13. "Estimating the Health Impact of Industry Infant Food Marketing Practices in The Philippines," (with David K. Guilkey), Journal of Development Studies, Vol.36, No. 3, February 2000, pp. 50-77.
14. "The effect of structural characteristics on family planning program performance in Côte d'Ivoire and Nigeria," (with Dominic J. Mancini and Guy Stecklov), Social Science & Medicine, Vol. 56, No 10, May 2003, pp 2123-2137.
15. "Health Facility Characteristics and the Decision to Seek Care," (with Eric R. Jensen), Journal of Development Studies, Vol. 40 (1) October 2003, pp79-100.
16. "A Cost Function Analysis of Shigellosis in Thailand," (with Arthorn Riewpaiboon, Sitaporn Youngkong, Nutta Sreshthaputra, Seksun Samosornsuk, Wanpen Chaicumpa, Lorenz von Seidlein, John D. Clemens), Value in Health, Vol 2, Sup 1, 2008. Pp. S75-S83.
17. "The cost-effectiveness of typhoid Vi vaccination programs: Calculations for four urban sites in four Asian countries," Joseph Cook, Marc Jeuland, Dale Whittington, Christine Poulos, John Clemens, Dipika Sur, Dang Duc Anh, Magdarina Agtini, Zulfiqar Bhutta, DOMI Typhoid Economics Study Group, Vaccine 26 (2008) 6305–6316 (as member of the DOMI Typhoid Economics Study Group).
18. "Cost-Effectiveness of New-Generation Oral Cholera Vaccines: A Multisite Analysis," Marc Jeuland, Joseph Cook, Christine Poulos, John Clemens, Dale Whittington, DOMI Cholera Economics Study Group, Value in Health 12(6) 2009. (as member of the DOMI Typhoid Economics Study Group).
19. "Costs of illness due to endemic cholera," (with C. Poulos, A. Riewpaiboon, J. Clemens, S. Guh, M. Agtini, D. Sur, Z. Islam, M. Lucas, D. Whittington, and the DOMI Cholera COI Study Group), Epidemiology and Infection, Cambridge U. Press, 2011.
20. "Cost of illness due to typhoid fever in five Asian countries," (with Christine Poulos, Arthorn Riewpaiboon, John F. Stewart, John Clemens, Soyeon Guh, Magdarina Agtini, Dang Duc Anh, Dong Baiqing, Zulfiqar Bhutta, Dipika Sur, Dale Whittington and the DOMI Typhoid COI Study Group), Tropical Medicine and International Health 16(3), March 2011, pp. 314-323.
21. "Cost of treatment for breast cancer in central Vietnam," (with Nguyen Hoang Lan, Wongs Laohasiriwong, Nguyen Dinh Tung, Peter C. Coyte), Global Health Action, Vol 6, 2013.
22. "Survival probability and prognostic factors for mortality in patients with breast cancer," (with Nguyen Hoang Lan and Wongs Laohasiriwong), Global Health Action, Vol 6, 2013.
23. "Cost-Effectiveness Analysis of a Screening Program for Breast Cancer in Vietnam," (with Nguyen Hoang Lan, Wongs Laohasiriwong, Peter C. Coyte, Nguyen Thi Bach Yen, and Pamela Wright), Value in Health Regional Issues Asia, Vol. 2, No. 1, May 2013.

24. "Impact evaluation of the Urban Health Initiative in urban Uttar Pradesh, India," (with Pranita Achyut, Aimee Benson, Lisa M. Calhoun, Meghan Corroon, David K. Guilkey, Essete Kebede, Peter M. Lance, Anurag Mishra, Priya Nanda, Rick O'Hara, Ranajit Sengupta, Ilene S. Speizer), Contraception, 93, 2016, pp. 519-525.
25. "Longitudinal Evaluation of the Tupange Urban Family Planning Program in Kenya," Benson Aimee, Calhoun Lisa, Corroon Meghan, Lance Peter, O'Hara Rick, Speizer Ilene, Winston Jennifer. International Perspectives on Sexual and Reproductive Health, Vol. 42, No, 2, pp. 75-87, June 2017.
26. "Cost of acute care for ischemic stroke in Thailand," Namfon Sribundit1, Arthorn Riewpaiboon, Usa Chaikledkaew, John F Stewart, Tasanee Tantirittisak and Suchat Hanchaipiboolkul. The Southeast Asian journal of tropical medicine and public health 48(3):628-640, January 2017,
27. "Evaluation of the Nigerian Urban Reproductive Health Initiative (NURHI) Program," Ken L. Atagame, Aimee Benson, Lisa Calhoun, Meghan Corroon, David Guilkey, Patrick Iyiwose, Essete Kebede, Peter Lance, Rick O'Hara, Osifo T. Ojogun, Ilene S. Speizer, John F. Stewart, Jennifer Winston Studies in Family Planning 48(3) 253-268, September 2017
28. "The Senegal Urban Reproductive Health Initiative: A Longitudinal Program Impact Evaluation," ( with Benson Aimee, Calhoun Lisa, Corroon Meghan, Gueye Abdou, Guilkey David, Kebede Essete, Lance Peter, O'Hara Rick, Speizer Ilene, S., Stewart John, Winston Jennifer), Contraception 2018.

### **B. Chapters in Books & Reports**

1. "Historical Perspective on Automatic Revenue Formulae," (with J.S. Ferguson), in Electric Power Reform: The Alternatives for Michigan. W.H. Shaker, ed., University of Michigan, 1976, Chapter XXVII, pp. 181-185.
2. "Cost Prediction Approach to Efficiency Incentives," (with E.J. Ciesla), in above source, Chapter XXVIII, pp. 187-194.
3. "Efficiency Incentive Approaches to Automatic Inflation Adjustments: Conclusions," (with J.S. Ferguson), in above source, Chapter XXX, pp. 201-203.
4. "A General Equilibrium Analysis of Monopoly Power and the Distribution of Income," (with R. Lankford), in The Economics of Firm Size, Market Power and Social Performance. J. Siegfried, ed., Federal Trade Commission, Washington, D.C., 1980, pp. 104-128.
5. An Empirical Study of Merger Motives. (with W.T. Carleton and R.S. Harris) Federal Trade Commission and Small Business Administration, Washington, D.C., 1980, pp. i-iii, 1-110.
6. "Financial Characteristics of Acquired Firms," (with W.T. Carleton and R.S. Harris), in Mergers and Acquisitions: Current Problems in Perspective. M. Keenan and L. White, eds., Lexington, Mass.: D.C. Heath and Co., 1982, pp. 223-241. Reprinted in Mergers and Acquisitions: Issues from the Mid-Century Merger Wave. Michael Keenan and Lawrence J. White, eds., Beard Books, 2003, pp. 223-241.
7. "Economic Efficiency and Automatic Fuel Cost Adjustment Mechanisms: Theory and Empirical Evidence," in Regulatory Reform and Public Utilities. M.A. Crew, ed., Lexington, Mass.: D.C. Heath and Co., 1982, pp.

167-181.

8. "Price Changes and Mergers in U.S. Manufacturing 1985-86," (with Sang-Kwon Kim) in David B. Audretsch and John J. Siegfried (eds.) Empirical Studies in Industrial Organization: Essays in Honor of Leonard Weiss, Kluwer Academic Publishers, 1992, pp. 77-96.
9. "Vertical and Integrated Structures of Family Planning Programs in West Africa: An Overview," (with David Guilkey, Alfred Adewuyi, and Kouame Koffi), in proceedings of Seminar on Family Planning Program Structure, Cost and Performance. Evaluation Project, Carolina Population Center, 1997, (USAID Contract #DPE-3060-C-00-1054-0), pp. 1-37.
10. "Vertical and Integrated Structures of Family Planning Programs in West Africa: Country Study, Cote D'Ivoire," (with Kouame Koffi), in proceedings of Seminar on Family Planning Program Structure, Cost and Performance. Evaluation Project, Carolina Population Center, 1997, (USAID Contract #DPE-3060-C-00-1054-0), pp. 1-34.
11. "Estimating Family Planning Expenditures: Country Study, Cote D'Ivoire," (with Kouame Koffi), in proceedings of Seminar on Family Planning Program Structure, Cost and Performance. Evaluation Project, Carolina Population Center, 1997, (USAID Contract #DPE-3060-C-00-1054-0), pp. 1-31.
12. "Health Care Decentralization in Paraguay: Evaluation of Impact on Cost, Efficiency, Basic Quality, and Equity- Baseline Report," (with Gustavo Angeles, Ruben Gaete, Dominic Mancini, Antonio Trujillo and Christina I. Fowler. Measure Evaluation Technical Report Series, No. 4, December 1999. pp.i-xix, 1-133, plus Appendices, also published in Spanish. (USAID Cooperative Agreement HRN-A-00-97-00018-00)
13. "Incorporating Cholera Vaccine Herd Protection into Economic Cost-Benefit and Cost-Effectiveness Models," (with M. Jeuland, J. Cook, C. Poulos, J. Clemens, B. Maskery, D. Lauria, M. Lucas, and D. Whittington. *Procedia in Vaccinology* 2 (2010) 140–146, Ninth Global Vaccine Research Forum, December 2009.

### **C. Book Reviews**

1. Sunk Cost and Market Structure by John Sutton, Southern Economic Journal, Vol. 59, October 1992, 346-47.
2. Regulatory Risk: Economic Principles and Applications to Natural Gas Pipelines and Other Industries by A. Lawrence Kolbe, William Tye, and Stewart C. Myers, Southern Economic Journal, Vol. 61, October 1994, 562-63.
3. Monopolistic Competition Theory: Origins Results and Implications by Jan Keppler, Southern Economic Journal, Vol. 62, January 1996, 819-20.
4. Mergers, Markets and Public Policy edited by Giuliano Mussati, Review of Industrial Organization, Vol. 12, 1997, 475-476.

### **Selected Presentations:**

"A Consumer's Introduction to Public Utilities," seminar on Energy - A National and a Local Concern, Dept. Physics and Astronomy, UNC and the Orange County Energy Conservation Task Force, November 1975.

"Fuel Use Incentives and the Electric Utility Fuel Cost Adjustment Clause," Eastern Economic Assoc., 1977.

"Efficiency and Costs of Income Redistribution," North Carolina Utilities Commission, "Conference on Lifeline Utility Rates," June 1978.

"Estimating the Extent and Sources of Scale Economies in Electric Power Generation Plants: A Multi-dimensional Output Nonhomogeneous Capital Approach," Western Economic Assoc., 1979.

"A General Equilibrium Analysis of Monopoly Power and the Distribution of Income," Federal Trade Commission Conference, "The Economics of Firm Size, Market Structure and Social Performance," January 1980.

"An Empirical Study of Merger Motives," (with W. Carleton and R. Harris), Financial Management Assoc., October 1980.

"Empirical Models of Merger Motivation," American Telephone and Telegraph Co., New York, October 1981.

"The Financial Characteristics of Acquired Firms," (with W. Carleton and R. Harris), conference on "Mergers and Acquisitions: Current Problems in Perspective," Salomon Brothers Center of the Study of Financial Institutions, New York University, January 1981.

"Economic Efficiency and the Automatic Fuel Cost Adjustment Mechanism: Theory and Empirical Evidence," Public Utilities Research Seminar, Business Research Center, Rutgers University, October 1981.

"The Medium of Exchange in Mergers: Cash Takeovers and Dividends," (with W. Carleton, D. Guilkey, and R. Harris), Financial Management Assoc., October 1981.

"The Role of Market Structure in Merger Behavior," (with R. Harris and W. Carleton), Southern Economic Assoc., 1981.

"Corporate Acquisitions: The Relationship Between Takeovers and Dividends," (with W. Carleton, D. Guilkey, and R. Harris), Southern Finance Assoc., 1981.

"Differences in the Merger Behavior of Acquiring Firms With Different Characteristics: Matching and Mergers," Southern Economics Assoc., 1984.

"Price Changes and Mergers in U.S. Manufacturing 1985-1986," (with Sang-Kwon Kim), Wissenschaftszentrum Berlin für Sozialforschung Conference on Empirical Studies in Industrial Organization, 1991.

"The Impact of Vertical Organization Upon Retail Prices in the U.S. Soft Drink Industry," NE-165 Conference, Orlando, Florida, 1992.

"Application of the Rule of Reason in Antitrust Litigation and the Role of the Economist," (with John Graybeal and David Baumer), North Carolina Bar Association, Antitrust and Trade Regulation Law Section, Greensboro, N.C., March 1992.

"Vertical and Horizontal Structure and Pricing Behavior in the Soft Drink Industry," UNC Law School, Law and Social Science Workshop, October 1992.

"Issues in measuring and evaluating the costs and cost-effectiveness of reproductive health programs," World Bank Staff Training Workshop, Monitoring and Evaluation of Reproductive Health Programs, Washington D.C., May 1996.

"Results from cost study in Ivory Coast," meeting on EVALUATION Project Study of Methodology for Estimating Expenditures and Costs of Family Planning Services, Washington D.C., October 1996.

"The Structure of Family Planning and Reproductive Health-Maternal and Child Health Service Provision in the Philippines," (with D. Guilkey, A. Herrin, and R. Racelis). Dissemination Seminar for Rockefeller Foundation, Manilla, June 1997.

"Vertical and Integrated Family Planning in West Africa," USAID dissemination seminar, Abidjan, Cote d'Ivoire, July 1997.

"The Impact of Health Facilities on Child Health," (with Eric R. Jensen), PAA, Los Angeles, March 2000.

"Cost and Efficiency of Reproductive Health Service Provision at the Facility Level in Paraguay," (with Gustavo Angeles and Ruben Gaete), PAA, Washington D.C., March 2001.

"Estimating Service Provision Costs from Survey Data: Family Planning in the Philippines," (with Alejandro N. Herrin and Rachel H. Racelis), Southern Economic Association, New Orleans, November 2002.

"The Undergraduate Entrepreneurship Minor at UNC Chapel Hill," Society of Economic Educators Annual Meetings, Amelia Island, Florida, 2008.

#### **Ph.D. Dissertations Supervised:**

1. Edward L. Millner, "A Theoretical and Empirical Investigation of the Market for Corporate Control Hypothesis," University of North Carolina, 1982.
2. Gary W. Whalen, "Multibank Holding Company Organizational Structure and Performance," University of North Carolina, 1982.
3. Dan A. Fuller, "Steam Electric Generation Under Residual Emissions Constraints: A Cost Function Approach Incorporating Perceptions of State Enforcement Activity," University of North Carolina, 1983.
4. Douglas J. Wakeman, "Abnormal Returns in Corporate Mergers," University of North Carolina, 1986.
5. Michael R. Butler, "The Economics of Television Advertising: Diffusion and Effects on Market Structure," University of North Carolina, 1986.

6. Jinsoo Kim, "Market Power, Efficiency, and Horizontal Merger Policy," University of North Carolina, 1988.
7. Kyu-Sung Ok, "Government Policies, Industrial Structure and Performance in Korea, 1972-84," University of North Carolina, 1989.
8. Sang-Kwon Kim, "Monopoly Hypothesis vs. Efficiency Hypothesis in Mergers," University of North Carolina, 1990.
9. Charles R. Mahla, Jr., "State Takeover Statutes and Shareholder Wealth," University of North Carolina, 1991.
10. Stephen J. O'Brien, "Illegal Insider Trading, Mergers, and Market Efficiency," University of North Carolina, 1995.
11. Doohoi Heo, "Mergers, Junk Bonds, and Economic Welfare," University of North Carolina, 1997.
12. John M. Nail, "Changes in Hospital Market Concentration and their Effect on Prices and Profit Margins," University of North Carolina, 1999.
13. Dominic Mancini, "The Effectiveness and Cost of Health Delivery Systems in Cote D'Ivoire, Nigeria, and Tanzania: Private Versus Public Allocation, Quality of Service Provision, and Management Structure," University of North Carolina, 2000.
14. William Grant, "Essays in Pharmaceutical Economics," University of North Carolina 2004.
15. John A. MacDonald, "An Examination of Airline Pricing: Testing the Effects of Mergers and Uncertainty on Average Fare and Dispersion," University of North Carolina 2007.
16. Lan Hong Nguyen, "Cost-Effectiveness Analysis of Screening Program for Breast Cancer in Vietnam," Khon Kaen University (Thailand, International co-advisor) 2012.
17. Namfon Sribundit, "Economic Evaluation of Stroke unit at Prasat Neurological Institute," Mahidol University (Thailand, International co-advisor) 2013.

#### **Grants and Contracts:**

Co-principal Investigator, (with W. Carleton and R. Harris), "An Empirical Study of Merger Motives," Federal Trade Commission and Small Business Administration, Contract No. L0636, 1979-80.

Co-Investigator, "Cebu Longitudinal Health and Nutrition Survey", (with Barry Popkin, John Akin, and David Guilkey), Carolina Population Center, 1983-1986.

Research grant to prepare cases and course material on "The Economics of Partially Regulated Firms", (with R. Harris), grant from AT&T Foundation and AT&T, 1985-86.

Co-Investigator, "Federal Labor Protection Provisions and the Contracting of Transit Services" (with H. Goldstein), funded by U.S. Department of Transportation Urban Mass Transportation Administration, 1986.

Co-Investigator, "Epidemiology of Infant Feeding Dynamics (Supplement)," with (B. Popkin and D.



Guilkey), funded by Department of Health and Human Services (NIH), 1987-1989.

Principal Investigator, "Infant Food Marketing, Feeding Choices, and Infant Health," (with D. Guilkey) funded by Wellstart International & USAID, 1993-94.

Investigator, "Organizational Structure and Cost Effectiveness in the Provision of Family Planning Services in Developing Countries," (with Alfred Adewuyi and David Guilkey) funded by USAID, (EVALUATION Project), 1994-1996.

Co-principal Investigator, (with D. K. Guilkey) "Determining Costs for Family Planning and Reproductive Health Services at the Facility Level," funded by Rockefeller Foundation, (1995-1997).

Co-investigator, (with Gustavo Angeles), "Economic Evaluation of the Decentralization of Health Care Services in Paraguay: Baseline," funded by MEASURE/Evaluation, 1998-1999.

Investigator, "Vaccination and Institutional Cost: DOMI Program for Typhoid, Cholera and Shigella ," International Vaccine Institute, 2002-2006.

International CoE Technical Advisor, Centers of Excellence for Human Resources for Health for Economic Evaluation, Program on Human Resource Development for Health, implemented by the Ministry of Health of Vietnam, and financed by the Royal Netherlands Embassy in Hanoi, 2008-2012

Investigator, "Measurement, Learning & Evaluation for the Urban Reproductive Health Initiative," Bill and Melinda Gates Foundation 2009-2015.

### **Other Professional Activities:**

Consultant, Wisconsin Regional Medical Program, 1974. An evaluation of alternative forms of health care regulations.

Consultant, U.S. Environmental Protection Agency, 1976. Industry study to be used in assessing impact of disposable container legislation.

Consultant, Research Triangle Institute, 1979. Development of framework for analyzing industry specific impacts of new source pollution standards.

Member of Technical Review Panel, Office of Economic Research, Small Business Administration, 1980.

Consultant, the law firm of Baker and Botts, Houston, Texas (representing American General Corp.) Antitrust and regulatory matters relating to merger of American General Corporation with NLT Corporation, 1982.

Consultant and expert witness, the law firm of Baker and Botts, Houston, Texas (representing Transco Energy Company). in antitrust case Consul, Ltd., v. Transco Energy Company, United States District Court for the Middle District of North Carolina, (C-82-574-WS), 1985.

Consultant and expert witness, Federal Trade Commission, in antitrust case Electrical Bid Registration Service of Memphis, Inc. (FTC Docket No. 9183), 1985.

Consultant law firm of Olwine, Connelly, Chase, O'Donnell & Weyer (representing Sewell Plastics). in antitrust case Sewell Plastics v. The Coca-Cola Company, et al. United States District Court for the Western District of North Carolina, (C-C-86-363-M), 1987-89.

Served as referee for Southern Economic Journal, The Bell Journal of Economics, Quarterly Review of Economics and Business, The Journal of Industrial Economics, The Scandinavian Journal of Economics, Financial Management, Journal of Finance and Quantitative Analysis, Transportation, Journal of Money, Credit, and Banking, and the National Science Foundation.

**Current Research:**

Retired from active research 2016.

**International Experience:**

Philippines, Thailand, Vietnam, Cote d'Ivoire, Korea, India, China, Kenya.  
Awarded Honorary Professorship, Ha Noi Medical University, 2012.

**REFERENCES**

Available on request.