

## CURRICULUM VITAE

### John S. Akin

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#### Education:

1967 B.A., Emory University  
1971 Ph.D., University of Michigan  
Dissertation: "Estimation of Local Fiscal Capacity"  
1974 Summer Session in Urban Economics, MIT

#### Specializations:

Teaching: Health Economics, Applied Microeconomics  
Research: Health Economics, Development Economics, Survey Data Collection and Analysis

#### Scholastic Honors:

Emory University:	National Merit Scholar G.M. Scholar Stipe Scholar Phi Beta Kappa, Junior election Cum Laude Graduate
Univ. of Michigan:	Woodrow Wilson Fellow

#### Professional Honors:

William F. Little Distinguished Service Award- College of Arts and Sciences, UNC at Chapel Hill

#### Teaching and Research Experience

1968-70 Teaching Fellow, University of Michigan  
1971 Visiting Lecturer, Eastern Michigan University  
1970-71 Research Associate, New York State Commission on the Quality, Cost and Financing of Elementary and Secondary Education (Fleischmann Commission)  
1971-73 Visiting Lecturer, School of Social Work, University of Wisconsin  
1971-73 Visiting Assistant Professor, Department of Economics, University of Wisconsin  
1971-73 Research Associate, Institute for Research on Poverty, University of Wisconsin  
1975-76 Brookings Economic Policy Fellow and Research Economist, U.S. Department of Health, Education and Welfare, Office of the Secretary, Office of Income Security Policy/Research  
1976-77 Population Research Fellow, Carolina Population Center, University of North Carolina at Chapel Hill, academic year  
1977 Visiting Scholar, London School of Economics, Department of Economics and Center for the Economics of Education  
1979-85 Fellow, Bush Institute for Child and Family Policy, University of North Carolina at Chapel Hill

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1985-87 Senior Economist, Division of Policy and Research, Department of Population, Health and Nutrition, The World Bank

1978-present Fellow, Carolina Population Center, University of North Carolina at Chapel Hill (Emeritus since 2015)

1973-2002 Full Professor (assistant until 1978, associate until 1983), Department of Economics University of North Carolina at Chapel Hill

1995-1997 Senior Health Economics Advisor, East Africa, The World Bank, Kampala, Uganda.

1981-2000 Research Associate, Health Services Research Center, University of North Carolina at Chapel Hill

2000-2010 Chair, Department of Economics, University of North Carolina at Chapel Hill

2002-present Austin H. Carr Distinguished Professor, Department of Economics, University of North Carolina at Chapel Hill (Emeritus since 2015)

2014-2015 Acting Director, UNC Entrepreneurship Minor, Department of Economics and School of Arts and Sciences

### **Publications:**

#### **Journal Articles**

1. Akin, J.S., (1973). "Efficiency and Equity in Post-Serrano School Finance." *Quarterly Journal of Business and Economics* 4(3).
2. Akin, J.S. and W.H. Clune, III (1973). "Economic and Legal Justifications of Fiscal Neutrality." *Education and Urban Society* 5(2):177-195.
3. Akin, J.S., G. S. Fields and W. B. Neenan (1973). "A Socio-Economic Explanation of Demand for Public Expenditures." *Public Finance Quarterly* 1(2, 1973):169-189.
4. Akin, J.S. (1973). "Fiscal Capacity and the Estimation Method of the ACIR." *National Tax Journal* 26(2):275-291.
5. Akin, J.S. (1974). "An Improved Method for Estimating Local Fiscal Capacity." *The Review of Regional Studies* 4(2):29-43.
6. Akin, J.S., N. Mazade and R. Surles (1976). "Fiscal Resource Development for State Mental Health Agencies." *Administration in Mental Health* 3(2):180-185.
7. Akin, J.S., and D.J. YoungDay (1976). "The Efficiency of Local School Finance." *Review of Economics and Statistics* 48(2):255-258.
8. Akin, J.S., and S. Stephenson (1976). "The Regional Impact of Recent Inflation by Income Class." *Review of Regional Studies* 6(1):28-34.
9. Akin, J.S. and T.J. Kniesner (1976). "Proxies for Observations on Individuals Sampled From a Population." *Journal of Human Resources* 11(3):411-413.
10. Akin, J.S. and G. Auten (1976) "City Schools and Suburban Schools: A Fiscal Comparison." *Land Economics* 52(4):452-466.
11. Akin, J.S. and I. Garfinkel (1977). "School Expenditures and the Economic Returns to Schooling." *Journal of Human Resources* 12(4):460-481.
12. Akin, J.S. (1979). "Estimation of State Resource Constraints Derived from a Specific Utility Function: An Alternative Measure of Fiscal Capacity." *National Tax Journal* 32(1):61-71.
13. Akin, J.S. and J.F. Stewart (1979). "Theoretical Restrictions on the Parameters of Indirect Addilog Demand Equations." *Econometrica* 47(3):779-780.
14. Akin, J.S., D.K. Guilkey and R. Sickles (1979). "A Random Coefficient Probit Model with Application to a Study of Migration." *Journal of Econometrics* 11(2-3):233-246.
15. Akin, J.S. and I. Garfinkel (1980). "The Quality of Education and Cohort Variation in Black-White Earnings Differentials: Comment." *American Economic Review* 70(1):186-191.
16. Akin, J.S., R.E. Bilsborrow, D.K. Guilkey, B.M. Popkin, D. Benoit, P. Cantrelle, M. Gareene, and P. Levi (1981). "The Determinants of Breast-feeding in Sri Lanka." *Demography* 18(3):287-307.
17. Akin, J.S., D.K. Guilkey, B.M. Popkin, J. Bass, and P.S. Haines (1981). "Who Benefits from School Feeding: An Analysis of Participation in the National School Breakfast and Lunch Programs." *Food Technology* (September):70-79.
18. Akin, J.S., D.K. Guilkey and B.M. Popkin (1981). "The Demand for Child Health Services in the Philippines." *Social Science and Medicine* 15(3):249-257.

19. Akin, J.S. and J.F. Stewart (1982). "The Time Allocation Decision and Achievement Patterns of Young Children." *Economics of Education Review* 2(4):307-330.
20. Akin, J.S. and M. J. Lea (1982). "Microdata Estimation of School Expenditure Levels: An Alternative to the Median Voter Approach." *Public Choice* 38(2):113-128.
21. Akin, J.S. and J. Wyckoff (1982). "Effects of Tax Substitution on the Finance of Public Education." *Southern Economic Journal* 48(4):1061-1073.
22. R.E. Bilsborrow and J.S. Akin (1982). "Data Availability Versus Data Needs For Analyzing the Determinants and Consequences of Internal Migration: An Evaluation of U.S. Survey Data." *Review of Public Data Use* 10(2):261-283.
23. Popkin, B.M., R.E. Bilsborrow and J.S. Akin (1982). "Breast-Feeding Patterns in Low Income Countries." *Science* 218(10):1088-1093.
24. Popkin, B.M., R.E. Bilsborrow, J.S. Akin, and M.E. Yamamoto (1983). "Breast-Feeding Determinants in Low Income Countries." *Medical Anthropology* 7(1):1-31.
25. Akin, J.S., D.K. Guilkey, B.M. Popkin and J.H. Wyckoff (1983). "The Demand for School Lunch: An Analysis of Individual Participation in the School Lunch Program." *Journal of Human Resources* XVII(2):213-230.
26. Akin, J.S., D.K. Guilkey and B.M. Popkin (1983). "Impact of the School Lunch Program on Nutrient Intake: A Switching Regression Analysis." *American Journal of Agricultural Economics* 65(3): 477-85 (Reprinted in a review volume on School Feeding Programs.
27. Akin, J.S., D.K. Guilkey, P.S. Haines and B.M. Popkin (1983). "Impact of The School Lunch Program on Nutrient Intakes of School Children." *School Food Service Research Review* 7(1):13-18.
28. Popkin, B., R.E. Bilsborrow, J.S. Akin, and M.E. Yamamoto (1983). "Breast-Feeding Determinants in Low Income Countries." *Medical Anthropology* 7(1):1-31.
29. Akin, J.S., D.K. Guilkey, B.M. Popkin and K. Smith (1985). "The Impact of Federal Transfer Programs on the Nutrient Intake of the Elderly." *Journal of Human Resources* 20(3):383-404.
30. Akin, J.S., D.K. Guilkey and B.M. Popkin (1985). "Changes in Elderly Household Participation in the Food Stamp Program." *Journal of Nutrition of the Elderly* 4(3):25-51.
31. R. Haskins, J.S. Akin, J.B. Schwartz, and A. Dobelstein (1985). "How Much Child Support Can Absent Fathers Pay?" *Policy Studies Journal* 14(2):201-222.
32. Akin, J.S., C. Griffin, D.K. Guilkey and B.M. Popkin (1985). "Determinants of Infant Feeding: A Household Production Approach." *Economic Development and Cultural Change* 34(1):57-81.
33. Akin, J.S., C. Griffin, D.K. Guilkey and B.M. Popkin (1986). "The Demand for Primary Health Services in the Bicol Region of the Philippines." *Economic Development and Cultural Change* 34(4):755-82.
34. Akin, J.S., C. Griffin, D.K. Guilkey and B.M. Popkin (1986). "The Demand for Adult Outpatient Services in the Bicol Region of the Philippines." *Social Science and Medicine* 22(3):321-28.
35. Akin, J.S., R.E. Bilsborrow, D.K. Guilkey and B.M. Popkin (1986). "Breast-Feeding Patterns and Determinants in the Near East: An Analysis for Four Countries." *Population Studies* 40:247-62.
36. Akin, J.S., D.K. Guilkey, B.M. Popkin and M. Fanelli (1986). "Cluster Analysis of Food Consumption Patterns of Older Americans." *Journal of the American Dietetic Association* 86(5):616-24.
37. Akin, J.S. (1986). "Equity for the Poor." *World Health: The Magazine of the World Health Organization* (May):28-29.
38. Akin, J.S., R.E. Bilsborrow, D.K. Guilkey and B.M. Popkin (1986). "Breast-Feeding Patterns and Determinants in Jordan." *Population Bulletin of ESCWA* (28):5-41.
39. Akin, J.S. and J.B. Schwartz (1986). "Demand Analysis with Price Information Obtained Directly from Respondents." *World Bank, Population, Health and Nutrition Technical Note* 86-22 (June):1-24.
40. Akin, J.S. and N. Birdsall (1987). "Financing Health Services in Developing Countries." *Finance and Development* 24(2):40-43. Reprinted as "Le Financement des Services de Santé dans les Pays en Développement: Situation et Prepositions." *Problemes Economiques*, No. 2,036 (August 12, 1987).

41. The World Bank (authors: Akin, J.S., N. Birdsall and D. de Ferranti) (1987) "El Financiamiento de los Servicios de Salud en los Países en Desarrollo. Una Agenda Para la Reforma." *Boletín de la Oficina Sanitaria Panamericana*, Año 66, 103(6,December):695-709. (Five comments follow on pages 710-742.) (Spanish translation of summary of World Bank Health Financing Policy Paper.)
42. Wong, E., B.M. Popkin, J.S. Akin and D.K. Guilkey (1987). "Accessibility, Quality of Care and Prenatal Care Use in the Philippines." *Social Science and Medicine* 24(11):927-944.
43. Akin, J.S., D. Guilkey, B. Popkin and K. Smith (1987). "Determinants of Elderly Nutrient Intake." *Journal of Applied Gerontology* 6(3):227-258.
44. Popkin, B.M., J.S. Akin, W. Fliieger, and E. Wong (1988). "Breast-feeding Trends in the Philippines, 1973-1983." *American Journal of Public Health* 79(1):32-35.
45. Guilkey, D.K., R.R. Rindfuss, B.M. Popkin, and V.M. Paqueo (1988). "Childspacing in the Philippines: The Effect of Current Characteristics and Rural Development." *Population Studies* 42(2):259-273.
46. Schwartz, J.B., J.S. Akin and B.M. Popkin (1988). "Price and Income Elasticities of Demand for Modern Health Care: The Case of Infant Delivery in the Philippines." *World Bank Economic Review* 2(1):49-76.
47. Akin, J.S. and J.B. Schwartz (1988). "The Effect of Economic Factors on Contraceptive Method Choice in Jamaica and Thailand: A Comparison of Mixed Multinomial Logit Results." *Economic Development and Cultural Change* 36(3, April).
48. D.K. Guilkey, B.M. Popkin, J.S. Akin and E. Wong (1989). "Prenatal Care and Pregnancy Outcome in the Philippines." *Journal of Development Economics* 30(3):241-272.
49. Cebu Study Team (1989) "Urbanization, Infant Feeding and Diarrheal Morbidity: A Longitudinal Analysis in the Philippines." *Proceedings of the 14th International Congress of Nutrition*, Seoul, Korea, August 20-25.
50. Guilkey, D.K., B.M. Popkin, W. Fliieger, and J.S. Akin (1990). "Changes in Breast-Feeding in the Philippines, 1973-1983." *Social Science and Medicine* 31(2):1365-1375.
51. Popkin, B.M., L.S. Adair, J.S. Akin, R. Black, J. Briscoe, and W. Fliieger (1990). "Breast-feeding and Diarrheal Morbidity." *Pediatrics* 86(6):874-882.
52. Briscoe, J.J., J.S. Akin and D.K. Guilkey (1990). "People are not Passive Acceptors of Threats to Health: Edogeneity and its Consequences." *International Journal of Epidemiology*, 19(1):147-153.
53. Stewart, J.F., B.M. Popkin, D.K. Guilkey, J.S. Akin, L.S. Adair and W. Fliieger (1991). "Influences on the Extent of Breast-feeding: A Prospective Study in the Philippines." *Demography* 28(2):181-199.
54. Cebu Study Team (1991). "Underlying and Proximate Determinants of Child Health: The Cebu Study." *American Journal of Epidemiology*, 133(2):185-201.
55. Akin, J.S. (1991). "Estimating the Impacts of Socio-economic and Biomedical Factors on Child Health: The Cebu Study." In: *The Health Transition: Methods and Measures* (eds: J. Cleland, A.G. Hill). Australia, The Australian National University Printing Service. *Proceedings of an International Workshop*, London, June 1989.
56. Cebu Study Team (1992). "A Child Health Production Function Estimated from Longitudinal Data." *Journal of Development Economics* 38(3):323-351.
57. Popkin, B.M., D.K. Guilkey, J.S. Akin, L.S. Adair, J.R. Udry, and W. Fliieger (1993). "Nutrition and Birth Spacing: A Longitudinal Analysis." *Demography* 30(3):333-352.
58. Adair, L.S., B. Popkin, J. VanDerslice, J.S. Akin, D.K. Guilkey, R. Black, J. Briscoe, and W. Fliieger (1993). "Growth Dynamics During the First Two Years of Life: A Prospective Study in the Philippines." *European Journal of Clinical Nutrition* 47:42-51.
59. Henderson, G., J. Akin, L. Zhiming J. Shuigao, M. Haijiang, and G. Keyou (1994). "Equity and the Utilization of Health Services: Report of an Eight-Province Survey in China." *Social Science and Medicine* 39(5):687-699.
60. Akin, J.S. and Tsai-Ching Liu (1994). "The Demand for Medigap Health Insurance: A Household Production Model." *Journal of Health Management* 7(1):15-28.
61. Knowles, J.C., J.S. Akin and D.K. Guilkey (1994). "The Impact of Population Policies: Comment." *Population and Development Review* 20(3):611-655.

62. Akin, J.S., D.K. Guilkey and H. Denton (1995). "Quality of Services and Demand for Health Care in Nigeria: A Multinomial Probit Estimation." *Social Science and Medicine* 40(11):1527-1537.
63. Henderson, G., J. Shuigao, J. Akin, L. Zhiming, W. Jianmin, M. Haijiang, H. Yunan, z. Xiping, C. Ying, and G. Keyou (1995). "Distribution of Medical Insurance in China." *Social Science and Medicine*. 41(8):1119-1130.
64. Akin, John S. and Jeffrey J. Rous (1997). "Effect of Provider Characteristics on Choice of Contraceptive Provider: A Two-Equation Full-Information Maximum-Likelihood Estimation." *Demography* 34(4):513-523.
65. Akin, J., D. Guilkey, P. Hutchinson and M. McIntosh (1998). "Price Elasticities of Demand for Curative Health Care with Control for Sample Selectivity on Endogenous Illness: An Analysis for Sri Lanka." *Health Economics*. 7: 509-531.
66. Henderson, G., J. Akin, J. Shuigao, P. Hutchinson, S. G. Jin, J. Dietrich and M. Linmao (1998). "Trends in Health Services Utilization in Eight Provinces in China, 1989-1993." *Social Science and Medicine*. 47(12):1957-1971.
67. Akin, J. and P. Hutchinson (1999). "Determinants of Health Care Facility Choice and the Phenomenon of Bypassing Facilities." *Health Policy and Planning*. 14(2):135-151.
68. Akin, J., W. Dow and P. Lance, (2004). "Did the Distribution of Health Insurance in China Continue to Grow Less Equitable in the Nineties? Results from a Longitudinal Survey," *Social Science and Medicine*, 58(2):293-304.
69. Lance, P., J. Akin, W. Dow and C-P Loh, (2004). "Is Cigarette Smoking in Poorer Nations Highly Sensitive to Price? Evidence from Russia and China," *Journal of Health Economics*, 23(1):173-189.
70. Liu, Gordon, William H Dow, Alex Z. Fu, and John Akin, (2005), "Health Human Capital and Income Growth in China," *China Economic Quarterly*, 4(1): 101-116.
71. Akin, John S, William H Dow, Peter M Lance, and Chung-Ping A Loh, (2005) "Changes in Access to Health Care in China, 1989–1997," *Health Policy and Planning*, 20(2): 80-89.
72. Akin, John , Paul Hutchinson and Koleman Strumpf (2005) "Decentralization and Government Provision of Public and Private Goods: The Public Health Sector in Uganda" *Journal of Development Studies*, 41(8): 1417 – 1443.
73. Hutchinson, Paul, John Akin and Freddy Ssengooba (2006) "The Impacts of Decentralization on Health Care Seeking Behaviors in Uganda," *International Journal of Health Planning and Management*, 21(3): 1-32.
74. Gordon G. Liu, William H. Dow, Alex Z. Fu, John Akin, Peter Lance, (2008) "Income productivity in China: On the role of health," *Journal of Health Economics*, Volume 27, Issue 1, Pages 27-44.
75. Adair, L., B. Popkin, J. Akin, et al, (2010) "Cohort Profiles: The Cebu Longitudinal Health and Nutrition Survey," *International Journal of Epidemiology*.

### Monographs and Books

76. Akin, J.S. *The Economics of Public Education* (1976). Morristown, NJ: General Learning Press, 1976.
77. B.M. Popkin, J.S. Akin, P. Haines, M. MacDonald, and D. Spicer (1980). *Nutrition Program Options for Maternal and Child Health*. Madison, WI: Institute for Research on Poverty, Monograph Series (December).
78. Akin, J.S., C.C. Griffin, D.K. Guilkey, and B.M. Popkin (1985). *The Demand for Primary Health Care in the Third World*. Totowa, NJ: Rowman and Allanheld, pp. xiv-252.
79. The World Bank (authors: Akin, J.S., N. Birdsall and D. de Ferranti) (1987). Financing Health Services in Developing Countries: An Agenda for Reform. A World Bank Policy Study, (April) pp.vi-93.
80. J.B. Schwartz, D.K. Guilkey, J.S. Akin and B.M. Popkin (1992). *The WIC Breastfeeding Report: The Relationship of WIC Program Participation to the Initiation and Duration of Breastfeeding*. U.S. Department of Agriculture, Food and Nutrition Service, Sept. 15, 1992, pp. 1-64.

**Notes and Book Reviews:**

Book Review of *Reforming School Finance*, by Robert B. Reischauer and Robert W. Hartman, for *Monthly Labor Review* 97(6), June 1974.

"Intrametropolitan Residential Location and the Local Public Sector: Discussion." *Proceedings of National Tax Association Tax Institute of America*, June, 1976.

Book Review of *A Resource Allocation Model for Child Survival*, by Howard Barnum et al., in *Health Services Research*, 1982.

\_\_\_\_\_ Chapters from Monographs, Books, and Governmental Reports

H.E. Brazer, J.S. Akin, G. Auten, and C. S. Cross (1971). *Fiscal Needs and Resources: A Report to the New York State Commission on the Quality, Cost and Financing of Elementary and Secondary Education*, Ann Arbor, Michigan.

Akin, J.S. (1975). "Fiscal Capacity Estimation." Pp. 150-209 in *Fiscal Relations in the American Federal System*, Committee Print. Washington, DC: U.S. Government Printing Office, Intergovernmental Relations Subcommittee of the Governmental Operations Committee of the United States House of Representatives.

Akin, J.S. (1976). "Formulas for Distributing State Aid to Localities: An Analysis of the North Carolina Mental Health Area Match Formula," and "Mental Health Aid Distribution in North Carolina." In *Discussion of and Alternatives to the North Carolina Mental Health Area Match Funding Formula*, a Report, submitted to Department of Human Resources, State of North Carolina, by the Community Psychiatry Division, Department of Psychiatry, University of North Carolina at Chapel Hill (July).

Popkin, B.M., J.S. Akin, M. Kaufman and M. MacDonald (1981) "Nutrition Program Options for Maternal and Child Health: A Summary," in *Volume IV Background Reports* (Washington, DC: USGPO#017-002-00143-7) pp. 87-125.

Akin, J.S., J. Bass, D.K. Guilkey, P.S. Haines and B.M. Popkin (1982). "Nutritional Effect of School Lunch and School Breakfast." *Outlook '83* (Washington, DC: USDA, December, 1982), pp. 527-38.

Schwartz, J.B., J.S. Akin, D.K. Guilkey, and V. Paqueo. (1989). "The Effect of Contraceptive Prices on the Choice of Contraceptive Method: A Three Country Comparison." In: R. Bulatao and J. Palmore, and S. Ward (eds.) *Choosing a Contraceptive: Method Choice in Asia and the United States* Boulder, CO: Westview Press.

Schwartz, J.B., J.S. Akin, and B.M. Popkin (1992). "Economic Determinants of the Demand for Modern Infant Delivery: The Case of the Philippines." *Health Economics Research in Developing Countries*, Kenneth Lee and Anne Mills, eds. (Oxford University Press, London).

Popkin, B., J.S. Akin, W. Flieger, and E. Wong (1989). "The Effects of Women's Work on Breast-Feeding in the Philippines, 1973-83," in *Women, Work, and Child Welfare in the Third World*, J. Leslie and M. Paolissi, eds (Boulder, CO: American Academy of Arts and Sciences Symposium and Westview Press) pp. 85-112.

Akin, J.S., R.E. Bilsborrow, D.K. Guilkey, B.M. Popkin, H.S.M. Ashy and A.F.E. Ismail (1988). "Patterns and Determinants of Breast-Feeding." In *Egypt: Demographic Responses to Modernization*. Edited by A.M. Hallouda, S. Farid and S.H. Cochrane (Cairo, Central Agency for Public Mobilization and Statistics) 447-82.

- Akin, J.S. (1988). "Health Insurance in Developing Countries: Prospects for Risk-Sharing." In *Health Care Financing*. Manila Philippines, Washington, DC, and Honolulu, HI: Jointly published by Asia Development Bank, Economic Development Institute of World Bank, and East-West Center (November) pp. 191-236.
- Akin, J.S. (1988). "A Summary of Financing Health Services in Developing Countries." In *International Health in the 1990s: Directions in Research and Development*. Arlington, VA: NCIH (October) pp. 38-46.
- Akin, J.S., D.K. Guilkey, and B.M. Popkin (1990) "The Production of Infant Health: Input Demand and Health Status Differences Related to Gender of the Infant." In: *Research in Population Economics*. T. P. Schultz, ed., Vol. 7 (Greenwich, CT: J.A.I. Press, Inc), pp. 267-289.
- The World Bank (authors: Prescott, N., J.S. Akin and H. Barnum) (1988) "Indonesia: Issues in Health Planning and Budgeting." *The World Bank*, Gray cover Sector Report #7291-IND, Country Department V, Asia Region.
- The World Bank (authors: Iqbal, F., J.S.Akin, E. Bos, G. Anderson, R. Evans, and J. Lomas) (1988). "Korea: Health Insurance and Health Sector." *The World Bank*, Yellow Cover Sector Report #7412-KO, Country Department II, Asia Regional Office.
- Denton, H., J.S. Akin, D.K. Guilkey, A.M. Wouters, and R. Vogel (1991). "Federal Republic of Nigeria: Health Care Cost, Financing and Utilization." *The World Bank*, Grey Cover Sector Report #8382UNI, Western Africa Department (Oct. 18).
- Cebu Study Team, presentation by J.S. Akin (1992). "Using Survey Data to Estimate the Determinants of Child Health: the Cebu Longitudinal Health and Nutrition Study." in *The Young and the Elderly: Issues on Morbidity and Mortality*. Diana Sawyer and Stephen McCracken, eds. ISBN: 85-7041082-4, Belo Horizonte, Brazil.
- Strumpf, K., J. Akin and P. Hutchinson, "Decentralization and Government Provision of Public and Private Goods: the Public Health Sector in Uganda," Ch 19 of Le Financement de la Sante dans les pays d'Afrique et d'Asie a Faible Revenu , Audibert, M., J. Mathonnat and E. de Roodenbeke, eds., from the CERDI International Conference on Health Systems Financing in Low-Income African and Asian Countries, Clermont-Ferrand, France, Dec. 1, 2000

### **Selected Presentations:**

- "Local Public Services, Property Values, and Voting Behavior" (with Michael J. Lea), Econometric Society meetings, Dallas, TX, December 29, 1975.
- "Measuring Fiscal Capacity: A Utility Function Approach," American Economic Association meetings, Atlantic City, NJ, September 1976.
- "The Quality of Education and Cohort Variation in Black-White Earnings Differentials" (with Irv Garfinkel), presented at the Workshop in Labor Economics, London School of Economics, May 27, 1977. "Economic Research on School Feeding Programs," presented at the University of Wisconsin, Institute for Research on Poverty, October 2, 1979.
- "The Demand for Child Health Services in the Philippines" (with D. Guilkey and B. Popkin), American Public Health Association Meetings, Detroit, MI, October 1980.
- "Data Availability vs. Data Needs for Analyzing the Determinants and Consequences of Internal Migration: An Evaluation of U.S. Survey Data" (with Richard E. Bilsborrow), presented at the American Statistical

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Association/ U.S. Census Conference on "Forecasting Regional Population Change and Its Economic Determinants and Consequences," Airlie House, VA, May 28, 1982.

"Methodologies for Determining Duration of Breast-Feeding," presented at the International Union for the Scientific Study of Population conference, Manila, Philippines, December 1981.

"Demand for Contraceptive Methods: Estimation of the Economic Model" (with D. Guilkey and V. Paqueo), Population Association of America, Boston, MA, March 29, 1985.

"Estimation of Income for U.S. Absent Fathers" (with Brad Schwartz), Society for Research in Child Development, Toronto, Canada, April 19, 1985.

"Economics of Health Financing in Developing Countries," Royal Tropical Institute's 75th Anniversary Conference on Rural Development, Amsterdam, September 1985.

"Determinants of Birth Weight and Gestational Age in the Philippines" (with D. Guilkey, B. Popkin, and E. de Leon), Population Association of America, San Francisco, CA, April 1986.

"Child Spacing in the Philippines" (with D. Guilkey, V. Paqueo, B. Popkin, and R. Rindfuss), Population Association of America, San Francisco, CA, April 1986.

"Health Financing Research at the World Bank," Conference of World Bank, WHO, USAID and OECD Health Finance Researchers, Washington, DC, May 9, 1986.

"Health Financing and Risk Sharing," 13th Scientific Technical Seminar of Pan American Health Organization (PAHO), Washington, DC, April 17, 1986.

"Political and Socioeconomic Determinants of Health Financing Policy," British Commonwealth Conference of Ministers of Health, The Bahamas, October 13-17, 1986.

"Health Policy Research at the World Bank," presented at Conference on Middle East Regional Development in Health, (co-sponsored by Center for Social Policy in the Middle East, Brandeis University; UCLA School of Public Health and UCLA School of Medicine), Washington, DC, February 5, 1987.

"Financing Health Services: The Indonesia Case," presentation to Ministry of Health, Jakarta, Indonesia, March 19, 1987.

"Financing Health Services in Developing Countries: An Agenda for Reform," Plenary Address to International Congress of World Federation of Public Health Associations, Mexico City, March 25, 1987.

"Population Growth and Environmental Impacts," participation on panel at meeting of National Academy of Sciences, Committee on Population, Washington, DC, April 23, 1987.

"Fees and Insurance in Developing Country Health Finance," seminar at Harvard Institute of International Development, May 14, 1987.

"Health Insurance in the Developing Countries: Prospects for Risk-Sharing," presented at Asia Development Bank Regional Seminar on Health Care Financing, Manila, July 29, 1987.

"Financing Health Services in Developing Countries: An Agenda for Reform," National Council for International Health conference, International Health in the 1990s: Directions in Research and Development, Chapel Hill, NC, October 30, 1987.

"Recession, Structural Adjustment and Innovative Health Financing," presented at the International Conference on Health and Development, Johns Hopkins University, April, 1988

"A Longitudinal Analysis of Child Health Outcomes," Population Association of America meetings, New Orleans, April 21, 1988.

"Estimating the Impact of Socio-Economic and Biomedical Factors on Child Health," presented at workshop on Measurement of Health Transition Concepts, sponsored by the Rockefeller Foundation, London, England, June 7-9, 1989.

"The Production of Infant Health: Input Demand and Health Status Differences Related to the Gender of the Infant," presented at conference on Family, Gender Differences and Development, Yale University Department of Economics and Economic Growth Center, New Haven, CT, September 4-6, 1989.

"Using Survey Data to Estimate the Determinants of Child Health," presented at the International Seminar on Morbidity, Mortality and Social Policy, sponsored by Center for Regional Development and Planning (Cedeplar), and the Brazilian Ministry of Health, Belo Horizonte, Brazil, December 12-15, 1989.

"Infant Mortality: Underlying and Intermediate Determinants," presented at National Institute for Health (NIH), Workshop on Infant Mortality and Low Birthweight, Rockville, MD, April 5-6, 1990.

"Ethics in Population Research," Carolina Population Center Research Seminar, October 19, 1990.

"Soft Money and Academic Freedom," UNC-Chapel Hill AAUP Seminar, November 5, 1990.

"Health Care Cost, Financing and Utilization," Nigeria Federal Ministry of Health Workshop, Ota (Ogun State), Nigeria, November 22, 1990.

"Nutrition, Lactation and Birth Spacing in Filipino Women," Annual Meetings of the Population Association of America, Denver, April, 1992 (with B.Popkin, D. Guilkey, L. Adair, R. Udry and W. Flieger).

"The UNC Bicentennial Campaign," presentation to Conference of Chairs of College of Arts and Sciences, Feb. 2, 1993.

"The Role of Provider Characteristics in the Choice of Contraceptive Provider," Population Association of America Meetings, Miami, May 6, 1994 (with Jeffrey J. Rous).

"The Basic Economics of Health Care Finance," Proceedings of the Better Health in Africa Conference, Kampala, Uganda, 6-8 December, 1996.

"Nongovernmental Organizations and Health Provision in Uganda," The NGO Forum, Kapala, Uganda, August 20, 1996.

"Health Finance Reform and Decentralization," United States Agency for International Development (USAID), Washington, DC, Nov. 21, 2000.

"Decentralization and Government Provision of Public and Private Goods: the Public Health Sector in Uganda," CERDI International Conference on Health Systems Financing in Low-Income African and Asian Countries, Clermont-Ferrand, France, Dec. 1, 2000.

"Did the Distribution of Health Insurance in China Continue to Grow More Inequitable in the Nineties?" Chinese Center for Disease Control and Prevention, Beijing, China, April 24, 2002 (with Will Dow and Peter Lance).

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"Is Cigarette Smoking in Poorer Nations Highly Sensitive to Price? Evidence from China and Russia," Chinese Center for Disease Control and Prevention, Beijing, China, April 25, 2002 (with Peter Lance, Chung-Ping Loh and Will Dow).

" The Demand for Cigarettes in China and Russia." 2002 IUSSP Regional Population Conference, Bangkok, Thailand, June 11, 2002 (with Peter Lance, Chung-Ping Loh and Will Dow).

**Professional Positions:**

1977-84	Board of Editors, <i>Review of Regional Studies</i>
1980-81	Board of Editors, <i>Southern Economics Journal</i>
1977-78, 1987-88, and 1991-92	Representative, Chairman's Advisory Committee Department of Economics, University of North Carolina at Chapel Hill
1979-82	Director of Undergraduate Studies, Department of Economics, University of North Carolina at Chapel Hill, (3 years)
1986-87	Member, National Science Foundation Review Panel, Geography and Regional Science
May 1987	Coordinating Committee Member, Technical Sessions of World Health Organization's World Health Assembly, Geneva
1987-1989	Graduate Placement Director, Department of Economics, University of North Carolina at Chapel Hill
1987-1992	Member, Technical Advisory Committee, Project REACH, USAID
1987-1992	Faculty Advisor to Computer Department, Carolina Population Center, University of North Carolina at Chapel Hill
1988-1992	Member, Technical Advisory Committee, Project Rapid III, USAID
1988-1992	Member, Senior Advisory Panel, WIC Child Impact Project, USDA Food and Nutrition Service
1989-1994	Member, Carolina Population Center Advisory Council
1990-1993	Member, Technical Advisory Committee, Health Finance and Sustainability Project, USAID
1993-1995	Elected Member, Board of Trustees, Southern Economics Association
1995-1997	Member, Southern Economics Journal Oversight Committee
1994-1996 2000	Center Associate, Cecil G. Sheps Center for Health Services Research 1999- Member, Personnel Committee, UNC Department of Economics
2000-2010	Chair, UNC Department of Economics

2005-present            Member, Editorial Advisory Board, Forum on Public Policy

Referee:                *American Economic Review, Review of Economics and Statistics, National Tax Journal, Journal of Human Resources, Southern Economic Journal, Journal of Economics and Business, Review of Regional Studies, Social Forces, Economic Inquiry, Demography, Social Science and Medicine, Economic Development and Cultural Change, Review of Economic Studies, Journal of Development Economics, The Economic Journal, Health Economics, Journal of Health Economics.*

**Professional Memberships:**

American Economic Association  
National Tax Association  
Southern Economic Association  
Population Association of America

**University Committees (University of North Carolina at Chapel Hill):**

1979-80                Personnel Department Advisory Board

1979-80                Dean of Arts and Sciences' Committee on Curriculum Reform-Social Sciences Subcommittee

1981-82                Dean of Arts and Sciences' Special Committee on the Industrial Relations Curriculum

1987-1990             Faculty Welfare Committee, Chair 1989-90

1992-1993             Division of Social Sciences, Vice Chair

1992-1993             Agenda Committee, Dean of College of Arts and Sciences

2001-2002             UNC Curriculum Review, Global Citizenship Committee

2001-2002             Provost's Qatar Program Planning Committee

2001-2002             Qatar Curriculum Planning Committee

2004-2005             Member, Search Committee, Dean of School of Public Health

2004-2007             Member, Financial Exigency and Program Change Committee

2008- 2010            Member, Licensing Labor Code Advisory Committee

2008- 2010            Member, Dean's Advisory Committee

2010-2011            Chair, Faculty Steering Committee, Chancellor's Innovation Circle, UNC at Chapel Hill

2011-2013            Member (Chair 2013) Hettleman Award Selection Committee

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2012-2013 Member, UNC Chapel Hill Board of Trustees 21<sup>st</sup> Century Vision Committee; College Access and Completion Committee

2011-2015 Member, UNC Undergraduate Admissions Committee; Advisory Committee on Undergraduate Admissions

#### **Dissertation Committees:**

Chairman: Clarence Adams, Michael Lea (second prize, National Tax Association Dissertation Competition, 1978), Michael Johnson (second prize, National Tax Association Dissertation Competition, 1979), James Ferris, Mary Jane Gorman, James Wyckoff, Brad Schwartz, Charles Griffin, Jack Molyneaux, Andrea Ziegert, Patricia Moser (M.A.), Li-Yuan Lin (M.A.), Tai-Ching Liu, Chin-Shyan Chen, Michael McIntosh, Chan Jin Kim, Jeffrey J. Rous, Jason Dietrich, Amber Jessup, Ke Xu, Paul Hutchinson, Peter Lance, Chung Ping Loh, Jae Young Lim and Caryn Bredenkamp (Public Policy), Volker Grzimek (co-chair with Helen Tauchen), Phil Gear (M.A.), Lauren Heller, Jianfeng Yao.

Reader: James Wetzel, Jesse Levy, Tom McCaleb (second prize, National Tax Association Dissertation Competition, 1976), Homer Erekson, Josh Wiener, Liza Fox, William McGuire, Gary Whalen, Dan Fuller, Ralph Lankford, Rhudy Jackson (Health Policy and Administration), Mary Borg, Pamela Haines (Nutrition), Mary Kokosky, Carole Gilbert, Tom Husted, John Cromartie, Noreen Qualls (Health Policy and Administration), Mike Foster, Jill Tiefenthaler (Duke-Economics), David Hotchkiss, Darrick Hamilton, Kristin Sandusky, Alex Cowell, Antonio Trujillo (Health Policy and Administration), Michael Quinn, Susan Chen, Tamah Morant, Betty Tao and Yun Zhang, David Jones, Joseph Cook (Public Policy), Raymond Farkouh.

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

"Economic Returns to Educational Quality" (with I. Garfinkel). Funding Source: National Institute of Education, 1972-73, \$35,000.

"Intergenerational Generation on Poverty. Funding Source: Institute for Research on Poverty, 1973-74, \$16,000.

"National School Lunch and Breakfast Programs" (with D. Guilkey and B. Popkin). Funding Source: U.S. Department of Agriculture, 1980-83, \$648,700.

"Patterns and Determinants of Breastfeeding in the Near East" (with D. Guilkey and B. Popkin). Funding Source: USAID, 1981-83, \$111,000.

"Demand for Health Services" (with D. Guilkey and B. Popkin). Funding Source: USAID, 1981-82, \$53,867.

Technical Assistance Project: Training Course on Advanced Methodologies and Computer Software in Manila, Philippines (with J. Bass and D. Guilkey). Funding Source: USAID, 1982, \$44,000.

"Analysis of Nutrition of the Elderly" (with D. Guilkey and B. Popkin). Funding Source: U.S. Department of Agriculture, 1982-84, \$315,000.

"The Determinants of Migration: A Methodological Investigation" (with R. Bilborrow). Funding Source: NIH, 1983-85, \$140,000.

"Rural Development and Child Spacing" (with R. Rindfuss, B. Popkin, and D. Guilkey). Funding Source: Population Council, 1984-85, \$165,178.

"Use of Prenatal Medical Services and Effects on Pregnancy Outcomes" (with B. Popkin, D. Guilkey, and B. Schwartz). Funding Source: USAID, 1985-86, \$89,000.

"Epidemiology of Infant Feeding Dynamics" (with B. Popkin and D. Guilkey). Funding Source: NIH, 1986-88, \$225,041; and 1987-90, \$238,050.

"Determinants of Infant Mortality: Underlying and Intermediate" (with B. Popkin, D. Guilkey, and J. Briscoe). Funding Source: NIH, 1986-89, \$375,000; and 1989-92, \$495,000.

"Epidemiology of Infant Feeding Dynamics: Determinants" (with B. Popkin and D. Guilkey). Funding Source: NIH, 1987-90, \$238,050.

"Health Care and Family Planning Usage and Demand in Nigeria." Funding Source: The World Bank, 1988-89, \$42,500.

"Women's Nutrition, Infant Feeding and Birthspacing" (with B. Popkin, D. Guilkey, W. Flieger, and J. R. Udry). Funding Source: NIH, 1989-92, \$383,473.

"The Effects of the Economic and Social Reform in China on Health, Fertility, and Nutrition" (with B. Popkin, G. Henderson, C. Chunming, C. Xiaoshu, and C. Ying). Funding Source: The Hewlett Foundation, 1989-1992, \$95,000.

"Modeling the Health Transition" (with G. Henderson and B. Popkin). Funding Source: National Science Foundation, 1990-1992, \$140,933.

"Health and Reproductive Dynamics and Social Change" (Program Project co-PI; PI of 1 project (see Community and Individual Determinants of Health: The Case of China, below); co-investigator of 2 other funded projects of the Program Project). Funding Source: National Institutes of Health (NIH), 1991-1996, \$3,054,093.

"Community and Individual Determinants of Health: The Case of China" (with G. Henderson and Institute of Nutrition and Food Hygiene, Government of China). Funding Source: National Institutes of Health (NIH), July 1993-June 1995, \$180,000.

"Role of the Private Sector in Family Planning," (with J. Knowles and L. Lacey), Funding Source: USAID, as part of Evaluation Project, Jan. 1, 1992-Dec. 31, 1994, \$411,029

"Evaluation of Government Decentralization in the Health Sector" (with K. Strumpf), Funding Source: USAID, as part of Measure (Evaluation) Project, Jan. 1, 1999-August 31, 2001, \$149,000

"Economic Transition: The Effects on Health Care in China" (with Will Dow), Funding Source, National Institutes of Health (NIH), March 20, 2001-February 28, 2005, \$808,453.