

October 2017

CURRICULUM VITAE

David K. Guilkey

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BIRTH DATE: October 21, 1948

EDUCATION

1970 B.A. (Mathematics) Michigan State University
1973 Ph.D. (Economics) University of North Carolina at Chapel Hill

ACADEMIC EXPERIENCE

2004-present Cary C. Boshamer Distinguished Professor of Economics
1995-2000 Chair of Department of Economics, University of North Carolina at Chapel Hill
1989-present Fellow, Journal of Econometrics
1983-present Professor of Economics, University of North Carolina at Chapel Hill
1982-present Fellow, Carolina Population Center, University of North Carolina at Chapel Hill
1982-85 Director of Graduate Studies, University of North Carolina at Chapel Hill
1977-83 Associate Professor of Economics, University of North Carolina at Chapel Hill
1976-77 Associate Professor of Economics, SMU
1974-76 Assistant Professor of Economics, SMU
1974 Visiting Assistant Professor, University of North Carolina at Chapel Hill

TEACHING

Graduate and undergraduate Econometrics, Graduate Seminar in Econometrics, Introduction to Statistics

PUBLICATIONS

Book

The Demand for Primary Health Care in the Third World. Totowa, NJ: Littlefield Adams, 1984. (with J. Akin, C. Griffin, and B. Popkin)

Journal Articles

“Estimation of seemingly unrelated regression equations with first-order autoregressive errors.” Journal of the American Statistical Association 68(September, 1973):642-647. (with P. Schmidt)

“Alternative tests for a first-order vector autoregressive error specification.” Journal of Econometrics (March, 1974):95-104.

“Specification error in generalized production function models.” International Economic Review (February, 1975):161-170. (with C. Lovell)

“A test for the presence of first-order autoregressive errors when lagged endogenous variables are present.” Econometrica (July, 1975):711-117.

“Some further evidence on the power of the Durbin-Watson and Geary Tests.” The Review of Economics and Statistics (August, 1975):379-382. (with P. Schmidt)

“Directed ridge regression in cases of multicollinearity.” Journal of the American Statistical Association (December, 1975):769-775. (with J. Murphy)

“The effects of various treatments of truncation remainders on tests of hypotheses in distributed lag models.” Journal of Econometrics (August, 1976):211-230. (with P. Schmidt)

“On choosing the optimal level of significance for the Durbin-Watson Test and the Bayesian alternative.” Journal of Econometrics (October, 1978):203-213. (with T. Fomby)

“Some small sample properties of estimators and test statistics in the multivariate logit model.” Journal of Econometrics (August, 1979):35-42. (with P. Schmidt)

“On the flexibility of the translog approximation.” International Economic Review (February, 1980):137-148. (with C. Lovell)

“A random coefficient probit model with an application to a study of migration.” Journal of Econometrics (December, 1979):233-246. (with J. Akin and R. Sickles)

“On comparing restricted least squares estimators.” Journal of Econometrics (April, 1981):397-404. (with J. Price)

- “An improved version of the Geary Test.” Communications in Statistics 11(1982):359-374. (with P. Schmidt)
- “The determinants of breast-feeding in Sri Lanka.” Demography 18(August, 1981):287-307. (with J. Akin, R. Bilsborrow, B. Popkin, D. Benoit, P. Cantrelle, M. Gareene, and P. Levi)
- “The demand for child health services in the Philippines.” Social Science and Medicine 15c(1981):249-257. (with J. Akin and B. Popkin)
- “Who benefits from school feeding: An analysis of participation in the national school breakfast and lunch programs.” Food Technology 35(September, 1981):70-79. (with J. Akin, B. Popkin, J. Bass, and P. Haines)
- “Characteristics of acquired firms: A random coefficient probit analysis.” Southern Economic Journal (July, 1982):164-184. (with J. Stewart, R. Harris, and W. Carleton)
- “Small sample properties of three tests for Granger-Casual ordering in a bivariate stochastic system.” The Review of Economics and Statistics (November, 1982):668-680. (with M. Salemi)
- “An empirical analysis of the role of the medium of exchange in mergers.” The Journal of Finance (June, 1983):813-826. (with W. Carleton, R. Harris, and J. Stewart)
- “The demand for school lunches: An analysis of individual participation in the school lunch program.” Journal of Human Resources 17(2, 1983):213-230. (with J. Akin, B. Popkin, and J. Wyckoff)
- “An examination of two-step estimators for models with lagged dependent variables and autoregressive errors.” Journal of Econometrics 22(1983):291-300. (with T. Fomby)
- “A comparison of the performance of three flexible functional forms.” International Economic Review (October, 1983):591-616. (with C. Lovell and R. Sickles)
- “The Impact of school lunch program and nutrient intake: A switching regression analysis.” American Journal of Agricultural Economics 65(3, August, 1983):477-485, [and reply to Acomment,” 66(4, 1984):513-514]. (Reprinted in a review volume on school feeding programs, in press.) (with J. Akin and B. Popkin)
- “The impact of the school lunch program on nutrient intake.” School Food Service Research Review 7(1, 1983):13-18. (with J. Akin, P. Haines, and B. Popkin)
- “Determinants of infant feeding: A household production model.” Economic Development and Cultural Change 34(1, 1985):57-81. (with J. Akin, C. Griffin, and B. Popkin)
- “The impact of federal transfer programs on the nutrient intake of elderly individuals.” Journal of Human Resources 20(3, 1985):383-404. (with J. Akin, B. Popkin, and K. Smith)
- “Changes in elderly household participation in the Food Stamp Program.” Journal of Nutrition of the Elderly 4(3, 1985):25-51. (with J. Akin and B. Popkin)

- “The demand for adult outpatient services in the Bicol Region of the Philippines.” Social Science and Medicine 22(3, 1986):321-328. (with J. Akin, C. Griffin, and B. Popkin)
- “The demand for primary health care services in the Bicol Region of the Philippines.” Economic Development and Cultural Change 34(4, 1986):755-782. (with J. Akin, C. Griffin, and B. Popkin)
- “Cluster analysis of food consumption patterns of older Americans.” Journal of the American Dietetic Association 86(5, 1986):616-624. (with J. Akin, B. Popkin, and M. Fanelli)
- “Breast-feeding patterns and determinants in the Near East: An analysis for four countries.” Population Studies 40(2, 1986):247-262. (with J. Akin, R. Bilsborrow, and B. Popkin)
- “Toward an assessment of the reliability of commercial appraisals.” The Appraisal Journal (July, 1986):422-432. (with R. Cole and M. Miles)
- “Investors can have confidence in Pension Fund Unit Values.” Real Estate Review (July, 1986). (with R. Cole and M. Miles)
- “Logistic regression multivariate life tables: A communicable approach.” Sociological Methods and Research 16(2, 1987):276-300. (with R. Rindfuss)
- “Determinants of elderly nutrient intake.” Journal of Applied Gerontology 6(3, 1987):227-258. (with J. Akin, B. Popkin, and K. Smith)
- “Accessibility, quality of care and prenatal care use in the Philippines.” Social Science and Medicine 24(11, 1987):927-944. (with E. Wong, B. Popkin, and J. Akin)
- “Child spacing in the Philippines: The effect of current characteristics and rural development.” Population Studies 42(1988):259-273. (with R. Rindfuss, B. Popkin, J. Akin, and V. Paqueo)
- “Patterns and determinants of breast-feeding.” In A. Hallouda, S. Farid, and S. Cochrane (eds.), Egypt: Demographic Responses to Modernization. Central Agency for Public Mobilisation and Statistics, pp. 483-526, 1988. (with J. Akin, R. Bilsborrow, B. Popkin, A. Ashy, and A. Ismail)
- “The effect of contraceptive prices on the choice of contraceptive method: A three country comparison.” In Bulatao and Palmore (eds.), Choosing a Contraceptive: Factors in Method Choice in Asia and the United States, Westview Press, pp. 78-104, 1989. (with J. Akin and J. B. Schwartz)
- “Modeling food consumption decisions as a two-step process.” American Journal of Agricultural Economics 70(3, 1989):543-552. (with P. Haines and B. Popkin)
- “More scientific diversification strategies for commercial real estate.” Real Estate Review 19(1, 1989):59-66. (with R. Cole, M. Miles, and B. Webb)
- “Food consumption changes between 1977 and 1985.” American Journal of Agricultural Economics 70(4, 1989):949-959. (with P. Haines and B. Popkin)

- “The motivation for institutional real estate sales and implications for asset class returns.” Journal of the American Real Estate and Urban Economic Association 17(1, 1989):70-86. (with M. Miles and R. Cole)
- “A longitudinal study of prenatal care use and pregnancy outcome in the Philippines.” Journal of Development Economics 30(1989):214-272. (with J. Akin, E. Wong, and B. Popkin)
- “Extended tabulations for Dickey-Fuller tests.” Economics Letters 31(1989):355-357. (with P. Schmidt)
- “The distribution of food consumption over a year: A longitudinal analysis.” American Journal of Agricultural Economics 72(4,1990):821-900. (with P. Haines and B. Popkin)
- “Adolescent contraceptive method choices.” Demography 27(1990):323-336. (with J. Kahn and R. Rindfuss)
- “The production of infant health: Gender differences in input demand and health status.” Research in Population Economics 7(1991):267-289 (T.P Schultz, ed.). (with J.S. Akin and B. Popkin)
- “Changes in breast-feeding in the Philippines, 1973-1983.” Social Science and Medicine 31(1990):1365-1375. (with J.S. Akin, W. Flieger, and B. Popkin)
- “People are not passive acceptors of threats to health: Endogeneity and its consequences.” International Journal of Epidemiology 19(1,1990):147-153. (with J. Briscoe and J. Akin)
- “Underlying and proximate determinants of child health: The Cebu longitudinal and health nutrition study.” American Journal of Epidemiology 133(2,1991):185-201. (with L. Adair, J. Akin, B. Popkin, J. Briscoe, R. Black, and W. Flieger)
- “A child health production function estimated from longitudinal data.” Journal of Development Economics 38(1992):323-351. (with L. Adair, J. Akin, B. Popkin, J. Briscoe, R. Black, and W. Flieger)
- “An interpolation test for a unit root in the presence of drift.” Biometrika 78(1991):809-815. (with P. Schmidt)
- “Influences on the extent of breast-feeding: A prospective study in the Philippines.” Demography 28(2,1991):181-199. (with J. Stewart, J. Akin, L. Adair, and W. Flieger)
- “A transactions-based real estate index: Is it possible?” Journal of Property Research 8(1991):203-217. (with M. Miles, D. Hartzell, and D. Shears)
- “Dietary Status and Energy and Nutrient Intake of US Women Ages 19-50.” Journal of the American Dietetic Association (1992)92(6):698-704. (with P. Haines, B. Popkin, and D. Hungerford).
- “Estimation and Testing in the Random Effects Probit Model.” Journal of Econometrics 59(3,1993):301-318. (with J. Murphy).

- “Fertility Intentions and Access to Services as Constraints on Contraceptive Use in Columbia.” Demographic and Health Surveys World Conference Proceedings II (1991):1305-1328.
- “The Duration of Breast-feeding: How Is It Affected by Biological, Sociodemographic, Health Sector, and Food Industry Practices?” Demography 30(1993):63-80. (with L. Adair and B. Popkin).
- “Growth Dynamics During the First Two Years: A Prospective Study in the Philippines.” European Journal of Clinical Nutrition 47(1993):42-51. (with L. Adair, J. Akin, J. VanDerslice, R. Black, J. Briscoe, B. Popkin, and W. Flieger).
- “Transactions-Driven Commercial Real Estate Returns: The Panacea to Asset Allocation Model?” Journal of the American Real Estate and Urban Economics Association 20,2(1992):325-357. (with R.B. Webb and M. Miles).
- “Survival in the Perinatal Period: A Prospective Analysis.” Journal of Biosocial Science 25(1993):359-369. (with B. Popkin, B. Schwartz, and W. Flieger).
- “Nutrition, Lactation and Birthspacing in Filipino Women.” Demography 30(1993):333-352. (with L. Adair, B. Popkin, J. Akin, R. Udry, and W. Flieger).
- “Quality of Services and Demand for Health Care in Nigeria: A Multinomial Probit Estimation.” Social Science and Medicine 40(1995):1527-1537. (with J. Akin and H. Denton).
- “Infant Feeding Patterns and the Marketing of Infant foods in the Philippines.” Economic Development and Cultural Change 43(1995):369-400. (with J. Stewart).
- “The Effects of Fertility Intentions and Access to Services on Contraceptive Use in Tunisia.” Economic Development and Cultural Change 43(1995):779-804. (with S. Cochrane).
- “Binary Outcomes and Endogenous Explanatory Variables: Tests and Solutions with an Application to the Demand for Contraceptive Use in Tunisia.” Demography 32(1995):111-131. (with K. Bollen and T. Mroz).
- “Ethnicity, Race and Earnings.” Economics Letters 47(1995):401-408. (with W. Darity, Jr. and W. Winfrey).
- “Infant Health and the Labor Supply of Mothers.” Journal of Human Resources 31(1996):90-139. (with D. Blau and B. Popkin).
- “Community and Contraceptive Choice in Rural Thailand: A Case Study of Nang Rong.” Demography 33(1996):1-11. (with B. Entwisle, R. Rindfuss, A. Chamratrithirong, S. Curran, and Y. Sawangdee).
- “The Initiation of Adolescent Sexual and Contraceptive Behavior During Changing Times.” Journal of Health and Social Behavior 37(1996):59-74. (with E. Cooksey and R. Rindfuss).
- “Bootstrap Standard Error Estimates in a Switching Regression Model with Unknown Switch Point.” Communications in Statistics: Simulation and Computation. 25(1996):1-24. (with S. Douglas).

- “Explaining Differences in Economic Performance among Racial and Ethnic Groups in the USA: The Data Examined.” American Journal of Economics and Sociology 55(1996):411-425. (with W. Darity and W. Winfrey).
- “The Family Building Life Course and Contraceptive Use: Nang Rong, Thailand.” Population Research and Policy Review. 15(1996):341-368. (with R. Rindfuss, B. Entwisle, A. Chamrathirong, and Y. Sawangdee).
- “Age Specific Determinants of Stunting in Filipino Children.” The Journal of Nutrition. 127(1997):314-320. (with Linda Adair).
- “Zimbabwe: Determinants of Contraceptive Use at the Leading Edge of Fertility Transition in Sub-Saharan Africa” Population Studies 51(1997):173-189. (with Susan Jayne).
- “The Determinants of Child Mortality in the Philippines: Estimation of a Structural Model” Journal of Development Economics 56(1998):281-303. (with Regina Riphahn).
- “Community-Level Determinants of Contraceptive Use in the Philippines: A Structural Analysis” Demography 34(1997):385-398. (with D. DeGraff and R. Bilborrow).
- “Racial and Ethnic Inequality in the USA: A Secular Perspective” American Economic Review: Papers and Proceedings 87(1997):301-305. (with W. Darity and Jason Dietrich).
- “Contraceptive Determinants in Three Leading Countries” Population Research and Policy Review 17(1998):329-350. (with Susan Jayne).
- “Purposive Program Placement and the Estimation of Program Effects: The Impact of Family Planning Programs in Tanzania” Journal of the American Statistical Association 93(1998):884-899. (with G. Angeles and T. Mroz).
- “Price Elasticities of Demand for Curative Health Care with Control for Sample Selectivity on Endogenous Illness: An Analysis for Sri Lanka” Health Economics 7(1998):509-531. (with J. Akin, P. Hutchinson, and M. McIntosh).
- “A Tactical Look at the Space Market Index” Real Estate Finance 14(1998):39-46. (With Mike Miles)
- “The Changing Impact of Religion on the Sexual and contraceptive Behavior of Adolescent women in the United States” Journal of Marriage and the Family 60(1998):493-504. (with Karin Brewster, Elizabeth Cooksey, and Ronald Rindfuss).
- “How Good Are the MSA Forecasts? A Review of the Major Supply- and Demand-Side Information Providers,” Real Estate Finance 15(1999):27-41.
- “Commercial Real Estate Equity Returns” Real Estate Finance 17(2000):57-65. (With Mike Miles and Jeffrey D. Fisher).

- “Estimating the Health Impact of Industry Food Marketing Practices in the Philippines” The Journal of Development Studies 36(2000):50-77. (With John Stewart).
- “Effect of Childbearing on Filipino women’s Work Hours and Earnings” Journal of Population Economics 15(2002): 625-645. (With L. Adair, E. Bisgrove, and S. Gultiano).
- “Determinants of Contraceptive Method Choice in Rural Tanzania Between 1991 and 1999” Studies in Family Planning. 34 (2003): 263-276. (With S. Chen).
- “Weekend Eating is Linked with Greater Energy, Fat, and Alcohol Intake” Obesity Research 11 (2003): 945-949. (With P. Haines, M. Hama, and B. Popkin).
- “The Effect of Participation in the WIC Program on Preschoolers= Diets,” The Journal of Pediatrics 144 (2004): 229-234. (With A. Siega-Riz, S. Kranz, D. Blanchette, P. Haines, and B. Popkin).
- “The Determinants of Fertility in Rural Peru: Program Effects in the Early Years of the National Family Planning Program” Journal of Population Economics 18 (2005): 367-389. (with Gustavo Angeles and Tom Mroz).
- “The Impact of Community Level Variables on Individual Level Outcomes: Theoretical Results and Applications” Sociological Methods and Research 34 (2005): 76-121. (with Gustavo Angeles and Tom Mroz).
- “The Effects of Education and Family Planning Programs on Fertility in Indonesia” Economic Development and Cultural Change 54 (2005):165-202. (with Gustavo Angeles and Tom Mroz).
- “Measuring the Cost-Effectiveness of a National Health Communication Program in Rural Bangladesh” Journal of Health Communications 11 (2006): 91-122. (with P. Hutchinson, P. Lance, M. Shahjahan, and S. Haque).
- “Cost-Effectiveness Analysis for Health Communication Programs” Journal of Health Communications 11 (2006): 47-68. (with P. Hutchinson and P. Lance).
- “Child Care Availability and First Birth Timing in Norway” Demography 44 (2007): 345-372. (with Rindfuss, Morgan, Kravdal, and Guzzo).
- “Environment and Physical Activity Dynamics: The Role of Residential Self-Selection” Psychology of Sport and Exercise (2011): 54-60. (with J. Boone-Heinonen, P. Gordon Larson, D. Jacobs, and B. Popkin).
- “Food Price and Diet and Health Outcomes: 20 Years of the CARDIA Study” Archives of Internal Medicine 170 (2010): 420-426. (with K. Duffey, P. Gordon Larson, J. Shikany, D. Jacobs, and B. Popkin).
- “Cohort Profile: The Cebu Longitudinal Health and Nutrition Survey” International Journal of Epidemiology (2010): 1-7. (with L. Adair, B. Popkin, J. Akin, S. Gultiano, J. Borja, L. Periez, C. Kuzawa, T. McDade, and M. Hindin).

- “Longitudinal Associations Between Neighborhood-Level Street Network with Walking, Bicycling, and Jogging: The CARDIA Study” Health & Place (2010):1-10. (with N. Hou, B. Popkin, D. Jacobs, Y. Song, C. Lewis, and P. Gordon-Larson)
- “Child-Care Availability and Fertility: Norway” Population Development Review 36 (2010): 725-748. (with R.Rindfuss, P. Morgan, and O, Kravdal). Distinguished Contribution to Scholarship in Population presented by the Sociology of Population Section of the American Sociological Association, 2011.
- “Neighborhood Socioeconomic Status Predictors of Physical Activity Through Young to Middle Adulthood: The CARDIA study” Social Science & Medicine. 72 (2011): 641-649. (with Boone-Heinonen J, Diez Roux AV, Kiefe CI, Lewis CE, and, Gordon-Larsen P.).
- “An Economic Analysis of Community-Level Fast Food Prices and Individual-Level Fast Food Intake: A Longitudinal Study” Health & Place 17 (2011): 1235-1241. (with P. Gordon-Larsen and B.P. Popkin).
- “Overcoming Methodological Challenges in Evaluating Health Communication Campaigns: Evidence from Rural Bangladesh” Studies in Family Planning (2011) 42: 93–106. (with P. Hutchinson).
- “Longitudinal trends in gasoline price and physical activity: the CARDIA study”(2011). Preventive Medicine, 52(5), 365-369. (with N. Hou, BM Popkin, DR Jacobs, Y Song, K. He, C. Lewis, P Gordon-Larsen).
- “Estimation of a Dynamic Model of Weight” Empirical Economics. 42 (2012): 413-443. (with SW Ng, E. Norton, and B. Popkin).
- “Family Planning Use Among Urban Poor Women from Six Cities of Uttar Pradesh, India” Journal of Urban Health 89 (2012): 639-658. (with I. Speizer, P. Nanda, P. Achyut, and G. Pillai).
- “The Educational Consequences of Teen Childbearing: Comparisons across Ordinary Least Squares Regression, Propensity Score Matching, Parametric and Semi-Parametric Maximum Likelihood Estimation” Demography 50 (2013): 2129-2150. (with Jennifer B. Kane, S. Philip Morgan, and Kathleen Mullan Harris).
- “Sociodemographic Differences in Fast Food Price Sensitivity” Journal of the American Medical Association Internal Medicine 174 (2014):434-442. (with Katie Meyer, Shu Wen Ng, Kiyah Duffey, Barry Popkin, Catarina Kiefe, Lyn Steffen, James Shikany, and Penny Gordon-Larsen).
- “Program Impact Estimation with Binary Outcome Variables: Monte Carlo Results for Alternative Estimators and Empirical Examples” Festschrift in Honor of Peter Schmidt (Sickles and Horrace, ed.s) Springer (2014): New York: 5-46. (with Peter Lance).
- “Fast food price, diet behavior, and cardiometabolic health: differential associations by neighborhood SES and neighborhood fast food restaurant availability in the CARDIA Study” (2015). Health and Place. 35, 128-135. (with P. Rummo, K. Meyer, A.G. Howard, J. Shikany, DK Guilkey, and P. Gordon-Larsen).

- “GMM with Multiple Missing Variables” (2016) Journal of Applied Econometrics 31 (4): 678-706. (with Saraswata Chaudhuri).
- “Instrumental-Variables Simultaneous Equations Model of Physical Activity and Body Mass Index: The Coronary Artery Risk Development in Young Adults (CARDIA) Study” (2016) American Journal of Epidemiology 186 (6): 465-476. (with Katie Meyer, Hsiao-Chuen Tien, Barry Popkin, Catarina Kiefe, and Penny Gordon-Larsen).
- “Beyond Supermarkets: Food Outlet Location Selection in Four U.S. Cities Over Time” (2016) American Journal of Preventive Medicine. Doi: 10.1016/j.amepre.2016.08.042 (with P. Rummo, SW Ng, BM Popkin, KR Evenson, P. Gordon-Larsen).
- “Impact Evaluation of the Urban Health Initiative in Urban Uttar Pradesh, India” (2016) Contraception 93(6): 519-525. (with Measurement, Learning & Evaluation India Project Team).
- “Obesity and health-related decisions: an empirical model of the determinants of weight status across the transition from adolescence to young adulthood in the US” (2016) Economics and Human Biology 23: 46-62. (with L. Morales and P. Gordon-Larsen).
- “Evaluation of the Nigerian Urban Reproductive Health Initiative (NURHI) Program” (2017) Studies in Family Planning 48 (3): 253-268. (with Measurement, Learning & Evaluation Project Nigeria Team).
- “Does unmeasured confounding influence associations between the retail food environment and body mass index over time? The Coronary Artery RiskDevelopment in Young Adults (CARDIA) study”. Int J Epidemiol. 2017 Jun 6. doi: 10.1093/ije/dyx070. [Epub ahead of print] PubMed PMID: 28586464 (with Rummo PE, Ng SW, Meyer KA, Popkin BM, Reis JP, Shikany JM, Gordon-Larsen P).
- “Accounting for Selectivity Bias and Correlation Across the Sequence From Elevated Blood Pressure to Hypertension Diagnosis and Treatment”, American Journal of Hypertension, hpx137 (with Gordon-Larsen P, Attard SM, Howard AG, Popkin BM, and Zhang B, Du S)
- “The Effects of Health Facility Access and Quality on Family Planning Decisions in Urban Senegal” (2017). Forthcoming in Health Economics (with C. Cronin and I. Speizer).
- “The Effect of the Removal of User Fees for Delivery at Public Health Facilities on Institutional Delivery in Urban Kenya” forthcoming in Maternal and Child Health Journal (with E. Bukusi, L. Calhoun, J. Otsola, and I. Speizer)

GRANTS AND CONTRACTS

- “Analysis of National School Lunch Program,” (with J. Akin and B. Popkin) for \$650,000 from U.S. Department of Agriculture (1980-83).
- “Patterns and Determinants of Breast-Feeding and Mortality in the Near East,” (with J. Akin and B. Popkin) for \$262,000 from USAID (1981-83).

“Demand for Primary Health Care Services in the Philippines,” (with J. Akin, and B. Popkin) for \$53,000 from USAID (1981-82).

“Technical Assistance Project: Training Course on Advanced Methodologies and Computer Software in Manila, Philippines,” (with J. Bass and J. Akin) for \$44,000 from USAID (1982).

“Nutrition of the Elderly,” (with J. Akin and B. Popkin) for \$314,636 from U.S. Department of Agriculture (1982-84).

“Rural Development and Child Spacing,” (with J. Akin, B. Popkin, and R. Rindfuss) for \$165,178 from the Population Council (1984-85).

“Social Determinants of Teen Contraceptive Behavior,” (with R. Rindfuss and J. Kahn) for \$271,767 from NIH (1987-88).

“Infant Mortality: Underlying and Intermediate Determinants,” (with B. Popkin, J. Briscoe, and J. Akin) for \$400,531 from NIH (1986-89).

“Epidemiology of Infant Feeding Dynamics,” (with B. Popkin) for \$385,268 from NIH (1987-88).

“Dietary Status and Eating Patterns,” (with P. Haines and B. Popkin) for \$144,988 from USDA (1986-87).

“Determinants of Food Group Consumption Patterns,” (with P. Haines and B. Popkin) for \$160,000 from USDA (1986-87).

“Epidemiology of Infant Feeding Dynamics (Supplement),” (with B. Popkin, L. Adair, and J. Stewart) for \$238,000 from NIH (1987-89).

“Contraceptive Choice in a Changing Environment,” (with R. Rindfuss and B. Entwisle) for \$238,000 from NIH (1989-1991).

“Infant Mortality: Underlying and Intermediate Determinants,” (with B. Popkin and J. Akin) for \$494,000 from NIH (1989-1992).

“Infant Feeding, Women=s Nutrition, and Birth Spacing,” (with B. Popkin and J. Akin) for \$382,000 from NIH (1989-1992).

“Determinants of Dietary Status from 1987 NFCS Data,” (with P. Haines and B. Popkin) for \$193,896 from USDA (10/1/88 - 9/31/90).

“Knowledge and Attitudes Related to Dietary Choices Among US Men and Women,” (with P. Haines and B. Popkin) for \$221,967 from USDA (10/1/91 - 12/27/92).

Statistical Core for “Health and Reproduction Dynamics and Social Change,” for \$543,751 from NIH (5/1/91 - 6/30/96).

- “Teen Contraceptive Choice in a Changing Environment,” (with R. Rindfuss) for \$151,000 from NIH (1991-1992).
- “Early Growth Dynamics and Later Childhood Outcomes: Longitudinal Studies in Cebu, Philippines,” (with L. Adair) for \$150,000 from Thrasher Foundation (1991-1994).
- “Expanded Promotion of Breastfeeding Program” (with J. Stewart) for \$26,310 WELLSTART International (1/1/94-12/31/94).
- “Demographic Aspects of Child Care and Long-Term Effects” (with K. Harris and R. Rindfuss) for \$507,859 from NIH. (7/1/94-6/30/97).
- “Demographic Responses to a Changing Environment” (with B. Entwisle and R. Rindfuss) for \$1,288,464 from NIH (10/1/93-9/30/97).
- “The EVALUATION Project” (Deputy Director with Amy Tsui Director) for \$14,000,000 from USAID (10/1/92-9/30/97).
- “Determining Costs for Family Planning and Reproductive Health Services at the Facility Level” (with J. Stewart) for \$76,795 from Rockefeller Foundation.
- “The MEASURE *Evaluation* Project” (Senior Technical Advisor with Sian Curtis, Director) for \$22,500,000 from USAID (10/1/97 - 9/30/03).
- “Child Health Effects of Rapid Socio-Demographic Change” (with B. Popkin and L. Adair) for \$1,378,339 from NIH (4/1/00-3/31/05).
- “Fertility Processes in Low Fertility Countries” (with R. Rindfuss and P. Morgan) for \$789,304 from NIH (9/1/00-8/31/04).
- “Beyond Race: Explaining Inequality Manifested as Obesity” (with B. Popkin and L. Adair) for \$861,313 from NIH (7/1/00-6/30/04).
- “Carolina Population Center Grant” (head of Statistical Core with Barbara Entwisle, Director) for \$7,727,045 (7/1/05-6/30/10) from NIH.
- “Diet, Activity, Obesity and the Built Environment Dynamics” (with B. Popkin and P. Gordon-Larsen) for \$1,431,061 (9/12/05-6/30/11) from NIH.
- “Measurement, Learning & Evaluation for the Urban Reproductive Health Initiative” (Principal Investigator with Ilene Speizer co-principal investigator) for \$22,850,360 (originally 1/1/09-12/31/15 now extended to 12/31/18) from the Bill and Melinda Gates Foundation. Funding was increased by \$5m in the extension period.
- “Obesity and Metabolic Risk Disparities: Underlying Food Environment Factors” (with B. Popkin and P. Gordon-Larsen) for \$2,220,347 (8/2/10-6/30/15) from NIH.
- “NURHI Sustainability Study” (co-investigator with Ilene Speizer principal investigator) for \$1,754,176

(1/1/17-1/31/18).