

CURRICULUM VITAE

NAME: Alok BHARGAVA
DATE OF BIRTH: 13 July 1954
NATIONALITY: U.S./ Indian
CURRENT POSITION: Professor, University of Maryland School of Public Policy, College Park, MD 20742-1821
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EDUCATION

YEAR	DEGREE	INSTITUTION	SUBJECTS	CLASS
1974	B.A. (Hons.)	Delhi University	Mathematics	First class
1977	B.Sc. (Econ.)	London School of Economics	Economics	First class
1978	M.Sc. (Econ.)	London School of Economics	Econometrics	Distinction
1982	Ph.D.	London School of Economics	Econometrics	

PH.D. THESIS

"The Theory of the Durbin-Watson Statistic with special reference to the Specification of Models in Levels as against in Differences," 1982. Advisor: John Denis Sargan.

RESEARCH FIELDS

Econometric Theory, Applied Econometrics, Applied Microeconomics, Food policy, Development Economics, Economic demography, Environmental sciences, Behavioral nutrition, Nutritional Epidemiology, Obesity, Health Economics, Health and Law, Child Development, Psychometric Methods, Corporate Finance, Executive Compensation and Law, Climate Change, Oceanography.

PREVIOUS AND CURRENT POSITIONS

- 1983-1989 Assistant Professor of Economics, University of Pennsylvania.
- 1989-1993 Associate Professor of Economics, University of Houston.
- 1993-2012 Professor of Economics, University of Houston
- 1995, Fall Visiting Professor, Harvard University.
- 1990-2013 Adjunct Professor, University of Texas School of Public Health- Houston
- 1998-2012 Faculty Affiliate, Women's Studies, University of Houston.
- 1999 Senior Global Health Leadership Fellow, World Health Organization, Switzerland.
- 2005- Visiting Professor, University of Paris 1, France.
- 2006- 2012 Extraordinary Professor, University of Free State, South Africa
- 2009- Faculty Affiliate, Texas Obesity Research Center
- 2013- Faculty Associate, Maryland Population Research Center
- 2016- Faculty Associate, Center for Global Sustainability, University of Maryland

BOOKS

1. A volume of collected papers: *Econometrics, statistics and computational approaches in food and health sciences*. World Scientific Publishing Company, 2006.
(<http://www.worldscibooks.com/economics/6140.html>)
2. *Food, economics and health*. Oxford University Press, 2008.
(<http://www.oup.com/uk/catalogue/?ci=9780199269143>)

EDITORIAL SERVICE

- Editor, *Journal of Econometrics*, special issue: *Analysis of data on Health*, 1997, Vol 77, No.1.
- Editor, *Journal of Econometrics*, special issue: *Analysis of data on Health: 2*. 2003, Vol 112, No.1.
- Editor, *Journal of Econometrics*, special issue: *Analysis of financial data*, 2014, Vol 183, No. 2.
- Founding Editor(s): *Economics and Human Biology*

PAPERS UNDER CONSIDERATION FOR PUBLICATION

1. **Bhargava, A.** “Sea surface temperatures, sea ice thicknesses and ocean surface current velocities”.

PEER-REVIEWED PUBLICATIONS

1. **Bhargava, A.** “Econometric modeling of carbon dioxide emissions and concentrations, ambient temperatures and ocean deoxygenation”, *Journal of the Royal Statistical Society Series A*, 2022, 185, 178-201.
(<https://doi.org/10.1111/rssa.12732>)
2. **Bhargava, A.** (2021). Broader frameworks are necessary for climate mitigation policies. E-letter in *Science Magazine*
(<https://www.science.org/doi/full/10.1126/science.abi7813>)
3. **Bhargava, A.**, “Broader approaches are necessary for containing pandemics like Covid-19”, *British Medical Journal*, 2021
(<https://www.bmj.com/content/374/bmj.n2107.full>).
4. **Bhargava, A.** “Dynamic aspects of *ORF1ab* and *N* RNA cycle threshold values among COVID-19 patients in China” *Infection, Genetics and Evolution*, 2021,
(<https://doi.org/10.1016/j.meegid.2020.104657>)
5. **Bhargava, A.** “Masks Reduce Viral Inoculum of SARS-CoV-2”, *Journal of General Internal Medicine*, 2021, (<https://doi.org/10.1007/s11606-020-06382-0>)
6. **Bhargava, A.** “Climate change, demographic pressures and global sustainability”, *Economics and Human Biology*, 2019, 33, 149-154.
7. **Bhargava, A.** “Dietary modifications and lipid accumulation product are associated with systolic and diastolic blood pressures in the Women’s Health Trial: Feasibility Study in Minority Populations”, *Current Hypertension Reports*, 2018, 20:50.
8. **Bhargava, A.** “Predictive value of pulse pressure in acute ischemic stroke for future major vascular events”, Letter to the editor, *Stroke*, April 25, 2018. (DOI: 10.1161/STROKEAHA.118.021031).
9. **Bhargava, A.** “Climate variability, rice production and groundwater water depletion in India”, *Environmental Research Letters*, 2018, 13, #034022.
10. **Bhargava, A.**, Booyesen, F., and Walsh, C. “Health status, food insecurity, and time allocation patterns of patients with AIDS receiving antiretroviral treatment in South Africa”, *AIDS Care*, 2018, 30, 361-368.
11. **Bhargava, A.**, and Tan, X. “Internal migration, divorce and well-being in China”, *Journal of Biosocial Science*, 2018, 50, 706-722.

12. **Bhargava, A.** “On the importance of demographic variables and longitudinal data analyses in climate change research”. E-letter, *Science*, 2016: <https://www.science.org/doi/10.1126/science.aad9837>
13. Bangdiwala, S., **Bhargava, A.**, O’Conner, D. et al. “Statistical methodologies to pool across multiple intervention sites”, *Translational Behavioral Medicine*, 2016, 228-235.
14. **Bhargava, A.** “Protein and micronutrient intakes are associated with child growth and morbidity from infancy to adulthood in the Philippines”, *Journal of Nutrition*, 2016, 146, 133-141.
15. **Bhargava, A.** “Diet quality, child health and food policies in developing countries”, *World Bank Research Observer*, 2015, 30, 247-246.
16. **Bhargava, A.** “Population health and economic development: Time frames and policy goals”, *Demography India*, 2015, 44, 147-151.
17. Connor, D.P., Lee, R.E., Mehta, P., Thompson, D, **Bhargava, A.**, et al. “Childhood Obesity Research Demonstration Project: Cross-site evaluation methods”, *Childhood Obesity*, 2015, 92-103.
18. **Bhargava, A.** “Profits without prosperity”, *Harvard Business Review*, November, 2014, p.24.
19. **Bhargava, A.** “Introduction to Analysis of Financial Data”, *Journal of Econometrics*, 2014, 183, 147-149.
20. **Bhargava, A.** “Firms’ fundamentals, macroeconomic variables and quarterly stock prices in the U.S.”, *Journal of Econometrics*, 2014, 183, 241-250.
21. **Bhargava, A.** Guntupalli, A.M., Lokshin, M., and Howard, L. Modeling the effects of immunizations timing on child health outcomes in India”, *Health Economics*, 2014, 23, 606-620.
22. **Bhargava, A.** “Physician emigration, population health and public policies”, *Journal of Medical Ethics*, 2013, 39, 616-616; “Quantitative analyses, ethical quandaries and policy debates: A rejoinder”: <http://jme.bmj.com/content/early/2013/05/30/medethics-2013-101409/reply>
23. **Bhargava, A.** “Iron status, malaria parasite loads and food policies: Evidence from sub-Saharan Africa.” *Economics and Human Biology*, 2013, 11, 108-12.
24. **Bhargava, A.** “Executive compensation, share repurchases and investment expenditures: Econometric evidence from U.S. firms”. *Review of Quantitative Finance and Accounting*, 2013, 40, 403-422.

25. **Bhargava, A.** “Modeling the effects of birth weight and size on child anthropometric measures in India”, *Demography India*, 2011, 40, 22-23.
26. **Bhargava, A.**, Guntupalli, A.M., and Lokshin, M. “Healthcare utilization, socioeconomic factors and child health in India”, *Journal of Biosocial Science*, 2011, 43, 701-715.
27. **Bhargava, A.**, F. Docquier, and Y. Moullan “Modeling the effects of physician brain drain on human development indicators”, *Economics and Human Biology*, 2011, 9, 172-183.
28. **Bhargava, A.** “Preventive Nutrition” , *Journal of American Medical Association*, 2010, 304, 1014.
29. **Bhargava, A.** “An econometric analysis of dividends and share repurchases by U.S. firms”, *Journal of the Royal Statistical Society A*, 173, 2010, 631-656.
30. **Bhargava, A.**, Booyesen, F. “Healthcare infrastructure and emotional support are predictors of CD4 cell counts and quality of life indices of patients on antiretroviral treatment in Free State Province, South Africa”, *AIDS Care*, 2010, 22, 1-9.
31. **Bhargava, A.** “Randomized controlled experiments in health and social sciences: Some conceptual issues”. *Economics and Human Biology*, 2008, 6, 293-298.
32. **Bhargava, A.**, Jolliffe, D., and Howard, L. “Socioeconomic, behavioral and environmental factors predicted body weights and household food insecurity scores in the Early Childhood Longitudinal Study-Kindergarten”, *British Journal of Nutrition*, 2008, 100, 438-444.
33. **Bhargava, A.**, and Docquier, F. “HIV pandemic, medical brain drain and economic development in sub-Saharan Africa”, *World Bank Economic Review*, 2008, 22, 345-366.
34. **Bhargava, A.** and Amialchuk, A. “Added sugars displaced the use of vital nutrients in the National Food Stamp program Survey”. *Journal of Nutrition*, 2007, 137, 453-460.
35. **Bhargava, A.**, “Desired family size, family planning and fertility in Ethiopia”, *Journal of Biosocial Science*, 2007, 39, 367-381.
36. **Bhargava, A.**, “Fiber intakes and anthropometric measures are predictors of circulating hormones, triglyceride and cholesterol concentrations in the Women’s Health Trial”, *Journal of Nutrition*, 2006, 136, 2249-2256.

37. **Bhargava, A.**, S. Chowdhury and K.K. Singh “Healthcare infrastructure, contraceptive use and infant mortality in Uttar Pradesh, India”, *Economics and Human Biology*, 2005, 3, 388-404.
38. **Bhargava A.** “AIDS epidemic and healthcare infrastructure inadequacies in Africa: A socioeconomic perspective”, *Journal of AIDS*, 2005, 40, 241-42.
39. **Bhargava A**, M. Jukes, D. Ngorosho, C. Khilma, and D. Bundy “Modeling the effects of health status and the educational infrastructure on the cognitive development of Tanzania school children”, *American Journal of Human Biology*, 2005;17:280-292
40. **Bhargava A.** AIDS epidemic and the psychological well-being and school participation of Ethiopian orphans. *Psychology, Health & Medicine* 2005;10(3):263-76.
41. **Bhargava A**, Hays J. Behavioral variables and education are predictors of dietary change in the Women's Health Trial: Feasibility Study in Minority Populations. *Preventive Medicine* 2004;38(4):442-51.
42. **Bhargava A.** Socio-economic and behavioural factors are predictors of food use in the National Food Stamp Program Survey. *British Journal of Nutrition* 2004;92(3):497-506.
43. **Bhargava A.** Family planning, gender differences and infant mortality: Evidence from Uttar Pradesh, India. *Journal of Econometrics* 2003;112(1):225-40.
44. **Bhargava A**, Bigombe B. Public policies and the orphans of AIDS in Africa. *BMJ* 2003;326(7403):1387-9.
45. **Bhargava A**, Bouis HE, Hallman K, Hoque BA. Coliforms in the water and hemoglobin concentration are predictors of gastrointestinal morbidity of Bangladeshi children ages 1-10 years. *American Journal of Human Biology* 2003;15(2):209-19.
46. **Bhargava A** “Some methodological issues in analyzing the effects of diet on health”, *Food and Nutrition Bulletin*, June, 2003, 24, 160-161.
47. **Bhargava A** “A longitudinal analysis of the risk factors for diabetes and coronary heart disease in the Framingham Offspring study”, *Population Health Metrics*, April 14, 2003;1:1-10
48. **Bhargava A**, Jukes M, Lambo J, Kihamia CM, Lorri W, Nokes C, et al. Anthelmintic treatment improves the hemoglobin and serum ferritin concentrations of Tanzanian schoolchildren. *Food & Nutrition Bulletin* 2003;24(4):332-42.

49. **Bhargava A**, Fox-Kean M. The effects of maternal education versus cognitive test scores on child nutrition in Kenya. *Economics & Human Biology* 2003;1(3):309-19.
50. **Bhargava A**, Guthrie JF. Unhealthy eating habits, physical exercise and macronutrient intakes are predictors of anthropometric indicators in the Women's Health Trial: Feasibility Study in Minority Populations. *British Journal of Nutrition* 2002;88(6):719-28.
51. **Bhargava A**. Stochastic specification and the international GDP series. *The Econometrics Journal*, 2001;4(2):273-86.
52. **Bhargava A**, Jamison DT, Lau LJ, Murray CJ. Modeling the effects of health on economic growth. *Journal of Health Economics* 2001;20(3):423-40.
53. **Bhargava A** "Nutrition, health and economic development: Some policy priorities", *Food and Nutrition Bulletin*, 2001;22:173-177
54. **Bhargava A**, Bouis HE, Scrimshaw NS. Dietary intakes and socioeconomic factors are associated with the hemoglobin concentration of Bangladeshi women. *Journal of Nutrition* 2001;131(3):758-64.
55. **Bhargava A**. World Health Report 2000: Data limitations, statistical methods, and policy analysis.[comment]. *Lancet* 2001;358(9287):1097-8.
56. **Bhargava A**. Modeling the effects of maternal nutritional status and socioeconomic variables on the anthropometric and psychological indicators of Kenyan infants from age 0-6 months. *American Journal of Physical Anthropology* 2000;111(1):89-104.
57. **Bhargava A**. Treatment for intestinal helminth infection. Conclusions should have been based on broader considerations.[comment]. *British Medical Journal* 2000; 321(7270):1226-7.
58. **Bhargava A**. Improving power with repeated measures. *American Journal of Clinical Nutrition* 1999;69(2):338-9.
59. **Bhargava A** "Modelling the effects of nutritional and socioeconomic factors on the physical development and morbidity of Kenyan school children", *American Journal of Human Biology*, 1999;11:317-326
60. S.R. Osmani, **Bhargava A** "Health and nutrition in emerging Asia", *Asian Development Review*, 1998.
61. **Bhargava A**. A dynamic model for the cognitive development of Kenyan schoolchildren. *Journal of Educational Psychology* 1998;90(1):162-67.

62. **Bhargava A, J. Yu** "A Longitudinal Analysis of Infant and Child Mortality Rates in Developing Countries", *Indian Economic Review*, 1997.
63. **Bhargava A.** Nutritional status and the allocation of time in Rwandese households. *Journal of Econometrics* 1997;77:277-95.
64. **Bhargava A.** Analysis of data on health. *Journal of Econometrics* 1997;77:1-4.
65. **Bhargava A.** Some properties of exact tests for unit roots. *Biometrika* 1996;83:944-49.
66. **Bhargava A, Reeds PJ.** Requirements for what? Is the measurement of energy expenditure a sufficient estimate of energy needs? *Journal of Nutrition* 1995;125(5):1358-62.
67. **Bhargava A, Forthofer R, McPherson S, Nichaman M.** Estimating the variations and autocorrelations in dietary intakes on weekdays and weekends. *Statistics in Medicine* 1994;13:113-26.
68. **Bhargava A, Ravallion M.** Does household consumption behave as a martingale? A test for rural South India. *The Review of Economics and Statistics* 1993;76:500-04.
69. **Bhargava A.** Modelling the health of Filipino children. *Journal of the Royal Statistical Society, Series A, General* 1994;157:417-32.
70. **Bhargava A, Bouis H.** Maximum likelihood estimation of between and within variations in energy and protein intakes from infancy to adolescence for the Philippines. *Statistics in Medicine* 1992;11:533-45.
71. **Bhargava A.** Malnutrition and the role of individual variation with evidence from India and the Philippines. *Journal of the Royal Statistical Society, Series A, General* 1992;155:221-31.
72. **Bhargava A.** Estimating short and long run income elasticities of foods and nutrients for rural south India. *Journal of the Royal Statistical Society, Series A, General* 1991;154:157-74.
73. **Bhargava A.** "Identification and Panel Data Models with Endogenous Regressors," *Review of Economic Studies*, 1991;58:129-140.
74. **Bhargava A** "An Econometric Analysis of the U.S. Postwar G.N.P.," *Journal of Population Economics*, September, 1990

75. **Bhargava A.** Missing observations and the use of the Durbin-Watson statistic. *Biometrika* 1989;76:828-31.
76. **Bhargava A.** Comments on "Towards a theory of point optimal testing". *Econometric Reviews* 1988;6:241-47.
77. **Bhargava A.** Testing covariance restrictions in systems of simultaneous equations with vector autoregressive errors. *International Economic Review* 1989;30:357-72.
78. **Bhargava A.** Wald tests and systems of stochastic equations. *International Economic Review* 1987;28:789-808.
79. **Bhargava A** "On the Theory of Testing for Unit Roots in Observed Time Series," *Review of Economic Studies*, 1986, 53, 369-384.
80. **Bhargava A,** Sargan JD. Estimating dynamic random effects models from panel data covering short time periods (STMA V27 1698). *Econometrica* 1983;51:1635-59.
81. Sargan JD, **Bhargava A.** Maximum likelihood estimation of regression models with first order moving average errors when the root lies on the unit circle. *Econometrica* 1983;51:799-820.
82. Sargan JD, **Bhargava A.** Testing residuals from least squares regression for being generated by the Gaussian random walk. *Econometrica* 1983; 51:153-74.
83. **Bhargava A,** Franzini L, Narendranathan W. Serial Correlation and the Fixed Effects Model. *Review of Economic Studies* 1982;49:533-49.

Book Chapters and comments:

1. Bouis, H., **Bhargava, A.** and Scrimshaw, N. (2002). "Effects of diet in improving iron status of women: role for food-based interventions". In *Household decisions, gender and development*, edited by A.R. Quisumbing. John Hopkins University Press.
2. Keusch, G., Fontain, O., **Bhargava, A.**, et al. (2006). "Diarrheal diseases". In *Disease control priorities in developing countries*, edited by Dean Jamison et al. Oxford University Press.
3. **Bhargava, A.** (2010), "Globalization, literacy levels and economic development". In *The poor under globalization in Africa, Asia, and Latin America*, edited by M. Nissanke and E. Thorbecke. Oxford University Press.
4. **Bhargava, A.** (2013). Dividend payments and share repurchases of U.S. firms: An econometric approach. In *Handbook of Financial Econometrics and Statistics*, edited by C.-F. Lee, Springer.

FUNDED RESEARCH

FUNDED PROJECTS COMPLETED (PI projects only)

1990-92: “Consumption patterns in south India”. The World Bank.

1993-94: “Nutrition and time allocation in Rwanda”. The World Bank.

1994-96: “Child development in Kenya”. The World Bank.

1997-98: “Development of Kenyan children and labor productivity in Kenya”.
Organization of Economic Cooperation and Development.

1999-2000: “Modeling the effects of health on economic growth”. World Health
Organization.

2000-01: “Iron deficiencies in Bangladesh”, International Food Policy Research Institute.

2000-01: “Nutrition and economic development”, Pan American Health Organization.

2000-01: “Child development in Tanzania”, World Bank.

2000-02: “Diet and obesity in Women’s Health Trial: Feasibility Study in Minority
Populations”, U.S. Department of Agriculture, \$121,000.

2002-03: “Determinants of food use in the National Food Stamp Program Survey”, U.S.
Department of Agriculture, \$35,000.

2002-04: “Diet and behavior in the Women’s Health Trial: Feasibility Study in Minority
Populations”, National Cancer Institute, \$148,500.

2002: “Water contamination and child health in Bangladesh”, International Food Policy
Research Institute.

2002-05: “Healthcare infrastructure, fertility and infant mortality in Uttar Pradesh”,
World Bank.

2004: “Effects of high-yield variety vegetables on consumption in Bangladesh”,
International Food Policy Research Institute.

2004-05: “Effects of anti-retroviral treatment on labor productivity in South Africa”,
World Bank.

2005: “Poverty and fertility in Ethiopia”, World Bank.

“Analyzing the Effects of Quality of Health Care and Family Planning Services on Fertility and Infant Mortality in India”, Research Committee, The World Bank, 5/1/02-6/30/05, Role: PI.

“Nutrition and child health in Bangladesh”, International Food Policy Research Institute, 03/2004-12/2006. Role: PI.

“Dynamics of body weight in the Early Childhood Longitudinal Study- Kindergarten”, Economic Research Service, US Department of Agriculture, budget: \$29,000, 6/1/06-8/31/07.

“HIV prevalence, migration of healthcare staff and economic activity in Africa”, World Bank, 1/1/06-12/31/06.

“AIDS epidemic, antiretroviral therapy and household welfare in Free State Province, South Africa”, Research Committee, 1/1/2006-12/31/2010 The World Bank, Role: Co-PI.

“Best evaluation tools and techniques for effective recommendations and policies”. Center for Disease Control. 9/2011-9/2016, budget \$4,249,997; Role: Co-investigator.

“Diet quality and child health in developing countries”. Harvest Plus, International Food Policy Research Institute; Role: Principal Investigator. 2/1/2013-2016.

RESEARCH CONSULTANCIES

The World Bank; National Cancer Institute; Organization for Economic Cooperation and Development; Asian Development Bank; World Health Organization; Pan American Health Organization; International Food Policy Research Institute.

REVIEW PANELS

National Institutes of Health: Social Science Panel.

National Institutes of Health: Special Emphasis Panel.

U.S. Department of Agriculture: FANRP panel.

Center for Disease Control: Special Emphasis Panel

National Institutes of Health: Challenge Grants in Health and Science Research Panel

National Institutes of Health: Dissemination and Implementation Research in Health

PROFESSIONAL AFFILIATIONS

Member of the American Society for Nutritional Sciences, Econometric Society, Population Association of America. Fellow of the Royal Statistical Society.

TEACHING EXPERIENCE

Undergraduate courses in econometric theory and applied econometrics.

Graduate courses in food policy, economics and health, development economics, statistics, simultaneous equations, time series.

Graduated Ph.D. students.

1992 Jiang Yu
1997 Jin Soo Kim
2003 Yong Woon Cho
2003 Sharon O'Donnell (Post-doc)
2005 Melanie Fox-Kean
2007 Aliaksandr Amialchuk
2008 Larry L. Howard
2016 Xiayun Tan

REFERENCES

1. Professor Jere Behrman, Department of Economics, University of Pennsylvania, Philadelphia PA 19104. E-mail: jbehrman@econ.upenn.edu
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5. Professor Christopher J.L. Murray, Institute for Health Metrics and Evaluation, University of Washington, 2301 Fifth Avenue Suite 600, Seattle, WA 98121. Phone: 1 206 897 2800; email: sbloom3@uw.edu
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