

## **CURRICULUM VITAE**

NAME: Alok BHARGAVA  
DATE OF BIRTH: 13 July 1954  
NATIONALITY: Indian  
CURRENT POSITIONS: Professor, Department of Economics, University of Houston, Houston, TX 77204-5019

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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.

### **RESEARCH FIELDS**

Econometric Theory, Applied Econometrics, Applied Microeconomics, Food policy, Development Economics, Economic demography, Behavioral nutrition, Nutritional Epidemiology, Obesity, Health Economics, Child Development, Psychometric Methods.

## **PREVIOUS POSITIONS**

- 1983-1989 Assistant Professor of Economics, University of Pennsylvania.
- 1989-1993 Associate Professor of Economics, University of Houston.
- 1995, Fall Visiting Professor, Harvard University.
- 1999 Senior Global Health Leadership Fellow, World Health Organization
- 2005 - Visiting Professor, University of Paris 1.
- 2006- Extraordinary Professor, University of Free State, Bloemfontein, South Africa

## **PUBLICATIONS**

### **PEER-REVIEWED PUBLICATIONS**

1. **Bhargava A**, Franzini L, Narendranathan W. Serial Correlation and the Fixed Effects Model. *Review of Economic Studies* 1982;49:533-49.
2. Sargan JD, **Bhargava A**. Testing residuals from least squares regression for being generated by the Gaussian random walk. *Econometrica* 1983;51:153-74.
3. 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.
4. **Bhargava A**, Sargan JD. Estimating dynamic random effects models from panel data covering short time periods (STMA V27 1698). *Econometrica* 1983;51:1635-59.
5. **Bhargava A** "On the Theory of Testing for Unit Roots in Observed Time Series," *Review of Economic Studies*, July, 1986.
6. **Bhargava A**. Wald tests and systems of stochastic equations. *International Economic Review* 1987;28:789-808.
7. **Bhargava A**. Testing covariance restrictions in systems of simultaneous equations with vector autoregressive errors. *International Economic Review* 1989;30:357-72.
8. **Bhargava A**. Comments on "Towards a theory of point optimal testing". *Econometric Reviews* 1988;6:241-47.

9. **Bhargava A.** Missing observations and the use of the Durbin-Watson statistic. *Biometrika* 1989;76:828-31.
10. **Bhargava A** "An Econometric Analysis of the U.S. Postwar G.N.P.," *Journal of Population Economics*, September, 1990
11. **Bhargava A.** "Identification and Panel Data Models with Endogenous Regressors," *Review of Economic Studies*, 1991;58:129-140
12. **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.
13. **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.
14. **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.
15. **Bhargava A.** Modelling the health of Filipino children. *Journal of the Royal Statistical Society, Series A, General* 1994;157:417-32.
16. **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.
17. **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.
18. **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.
19. **Bhargava A.** Some properties of exact tests for unit roots. *Biometrika* 1996;83:944-49.
20. **Bhargava A.** Analysis of data on health. *Journal of Econometrics* 1997;77:1-4.
21. **Bhargava A.** Nutritional status and the allocation of time in Rwandese households. *Journal of Econometrics* 1997;77:277-95.
22. **Bhargava A, J. Yu** "A Longitudinal Analysis of Infant and Child Mortality Rates in Developing Countries", *Indian Economic Review*, 1997.

23. **Bhargava A.** A dynamic model for the cognitive development of Kenyan schoolchildren. *Journal of Educational Psychology* 1998;90(1):162-67.
24. S.R. Osmani, **Bhargava A** "Health and nutrition in emerging Asia", *Asian Development Review*, 1998.
25. **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
26. **Bhargava A.** Improving power with repeated measures.[comment]. *American Journal of Clinical Nutrition* 1999;69(2):338-9.
27. **Bhargava A.** Treatment for intestinal helminth infection. Conclusions should have been based on broader considerations.[comment]. *BMJ* 2000;321(7270):1226-7.
28. **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.
29. **Bhargava A.** World Health Report 2000: Data limitations, statistical methods, and policy analysis.[comment]. *Lancet* 2001;358(9287):1097-8.
30. **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.
31. **Bhargava A** "Nutrition, health and economic development: Some policy priorities", *Food and Nutrition Bulletin*, 2001;22:173-177
32. **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.
33. **Bhargava A.** Stochastic specification and the international GDP series. *The Econometrics Journal* 2001;4(2):273-86.
34. **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.
35. **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.

36. **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.
37. **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
38. **Bhargava A** “Commentary: Some methodological issues in analyzing the effects of diet on health”, *Food and Nutrition Bulletin*, June, 2003.
39. **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.
40. **Bhargava A**, Bigombe B. Public policies and the orphans of AIDS in Africa. *BMJ* 2003;326(7403):1387-9.
41. **Bhargava A**. Family planning, gender differences and infant mortality: Evidence from Uttar Pradesh, India. *Journal of Econometrics* 2003;112(1):225-40.
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**, 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.
44. **Bhargava A**. AIDS epidemic and the psychological well-being and school participation of Ethiopian orphans. *Psychology, Health & Medicine* 2005;10(3):263-76.
45. **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
46. **Bhargava A**. “AIDS epidemic and healthcare infrastructure inadequacies in Africa: A socioeconomic perspective”, *Journal of AIDS*, 2005, 40, 241-42.

47. **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.
48. **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*, 136, 2249-2256.
49. **Bhargava, A.**, “Desired family size, family planning and fertility in Ethiopia”, *Journal of Biosocial Science*, 2007, 39, 367-381.
50. **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.
51. **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.
52. **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.
53. **Bhargava, A.** “Randomized controlled experiments in health and social sciences: Some conceptual issues”. *Economics and Human Biology*, 2008, 6, 293-298.

## **PAPERS UNDER CONSIDERATION FOR PUBLICATION**

1. **Bhargava, A.**, “Globalization, literacy levels and economic development”.
2. **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.”

## **BOOKS**

*Food, economics and health*. Oxford University Press, 2008.

(<http://www.oup.com/uk/catalogue/?ci=9780199269143>)

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>)

### **Book chapters:**

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.

## **FUNDED RESEARCH**

### **FUNDED PROJECTS IN PROGRESS**

“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.

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

“Behavioral factors and dietary change in the Women’s Health Trial: Feasibility Study in Minority Populations”, National Cancer Institute, budget: \$147,500, 10/2002-9/2005, Role: PI.

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

### **FUNDED PROJECTS PENDING**

2005: “Nutrition, lipids and hormones in the Women’s Health Trial: Feasibility Study in Minority Populations”, National Cancer Institute, \$150,000, Role: PI.

2005: “Determinants of child development in the Early Childhood Longitudinal Study-Kindergarten”, U.S. Department of Agriculture, \$200,000, Role: PI.

2005: “Diet and well-being in the Women’s Health Trial: Feasibility Study in Minority Populations”, U.S. Department of Agriculture, \$200,000, Role: PI.

2005: “Effects of anti-retroviral treatment on labor productivity and sexual behavior in South Africa”, World Bank, Role: Co-PI.

2005: “Migration patterns and economic activity in Africa and Asia”, World Bank.

2006: “A cost-benefit approach to Spartina control in Washington State”, U.S. Department of Agriculture.

### **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.

## **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.

## **PROFESSIONAL SERVICE**

### **EDITOR**

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.

### **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

## **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 Howard

## **REFERENCES**

1. Professor Partha Dasgupta, Faculty of Economics, Austin Robinson Building, Sidgwick Avenue, Cambridge, CB3 9DD, England. E-mail: partha.dasgupta@econ.cam.ac.uk
2. Professor R.W. Fogel, Center for Population Economics, University of Chicago, 5807 South Woodlawn, Chicago, IL 60637. E-mail: rwf@gsb.uchicago.edu donna.harden@gsb.uchicago.edu
3. Professor Jerry Hausman, Department of Economics, M.I.T., Cambridge MA 02139. Email: jhausman@mit.edu
4. Professor David Hendry, Nuffield College, Oxford OX1 1NF, U.K. E-mail: david.hendry@nuffield.oxford.ac.uk
5. Professor Nevin Scrimshaw, United Nations University, P.O. Box 330, Campton, NH 03223. E-mail: Nevin@cyberportal.net
6. Professor A.K. Sen, Department of Economics, Harvard University, Cambridge MA 02138. E-mail: sweiner@arrow.fas.harvard.edu