

Angus Deaton 2015. évi közgazdasági Nobel-díjas

2015. október 27.

MAGYAR NEMZETI BANK

Készítette:

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1. ÉLETRAJZA¹

Angus Stewart Deaton 1945. október 19-én született a skóciai Edinburgh-ben. Felsőfokú tanulmányait 1959-ben a Fettes College-ben kezdte. 1964 és 1967 között a Cambridge-i Fitzwilliam College matematika szakos hallgatója volt, ezt követően rövid ideig a Bank of England munkatársa. 1969-ben junior kutatói pozíciót szerzett Cambridge-ben az Alkalmazott Közgazdaságtan Tanszéken. Itt szerezte meg BA fokozatát 1967-ben, MA fokozatát 1971-ben és Ph.D fokozatát 1975-ben, utóbbit „*Models of consumer demand and their application to the United Kingdom*” című munkájával. Később a Fitzwilliam College főmunkatársa és Alkalmazott Közgazdaságtan Tanszékének kutatója volt Richard Stone-nal és Terry Barkerrel együtt.²

1976-ban ökonometria professzor lett a University of Bristol falai között. Legnagyobb hatású munkáinak jelentős részét ez idő alatt fejezte be. 1978-ban elsőként vehette át a Frisch-émlékérmét, amelyet az Ökonometriai Társaság két évente adományoz. 1980-ban a *The American Economic Review* tette közzé írását arról, hogy a különböző fogyasztási cikkek irnati keresletet miképpen befolyásolja az ár és a jövedelem. A tanulmányt az 1970 óta megjelenő lap húsz legnagyobb hatású írása között tartják számon azóta is.³

1983-ban John P. Lewis, a Woodrow Wilson School of Public and International Affairs (WWS) egykori dékánja felkérésének eleget téve elhagyta a University of Bristolt és elfogadta a Princeton University-n felkínált kinevezést, miközben 1979 óta már tengerentúli vendégprofesszor volt az egyetemen. Napjainkban is a Közgazdaságtan és Nemzetközi Ügyek Dwight D. Eisenhower professzora a WWS-en és a Princeton Universityn.⁴ 1990 és 1991 között a Cambridge-i Churchill College tengerentúli tagja.

Brit állampolgársága mellett megszerezte az amerikai állampolgárságot is.⁵

¹ http://scholar.princeton.edu/sites/default/files/deaton/files/deaton_cv_nov14_updated.pdf

² <http://www.cam.ac.uk/news/cambridge-alumnus-awarded-nobel-economics-prize>

³ <http://www.bristol.ac.uk/news/2015/october/nobel-prize-2015.html>

⁴ <http://www.nber.org/aginghealth/summer07/deaton.html>

⁵ <http://news.yahoo.com/scottish-economist-angus-deaton-wins-112123414.html>

2. TUDOMÁNYOS MUNKÁSSÁGA

Deaton ismertségét a majdnem ideális keresleti rendszerről („*almost ideal demand system*”, AIDS) alkotott elméletével szerezte, amelyet John Muellbauerrel együtt dolgozott ki és publikált a *The American Economic Review* hasábjain 1980-ban.⁶

Az Ökonometriai Társaság tagjaként 1978-ban megkapta a társaság első kitüntetését az *Econometrica* című szaklapban – amelynek 1978 óta társszerkesztője, majd szerkesztője volt –, közéleti munkájáért. Említett tagsága mellett a British Academy levelező tagja is.⁷ 2014 áprilisában az American Philosophical Society is tagjai közé választotta.⁸

A fentiek mellett Deaton számára tiszteletbeli elismerést adományozott többek között a ciprusi, római, edinburgh-i egyetem, a University College of London, valamint a University of St. Andrews is.

2007-ben az American Economic Association elnökévé választották.

2011-ben elnyerte a BBVA Foundation Frontiers of Knowledge Award of Economics, Finance and Management díját a fogyasztás- és megtakarítás-elmülethez alapvetően hozzájáruló teóriái, valamint a gazdasági értelemben felfogott jólét mérése elismeréseként.

Nevéhez fűződik a Deaton Paradoxon, amelyet 1980-as „*Why is consumption so smooth?*” című munkájában fejtett ki, és amelynek lényege, hogy meglátása szerint egy hirtelen, de éles bevételkiesséssel járó sokkhatás nem okoz azonos mértékű visszaesést a fogyasztásban. Ez komoly előrelépést jelentett a fogyasztói gondolkodás megértésében, és azt eredményezte, hogy a közgazdászok újragondolták a Milton Friedman nevéhez fűződő permanens jövedelemről alkotott hipotézist, amely szerint az emberek mindenkor bevételük alapján költenek.⁹

Deaton nevéhez kötődik a „*Letters from America*” is, amely a Royal Economic Society hírlevelének félévente megjelenő népszerű melléklete.¹⁰

3. A NOBEL-DÍJ¹¹

2015-ben Angus Deaton nyerte el a közgazdasági Nobel-díjat a fogyasztási szokások területén végzett kutatásaival, amelyek középpontjában a szegény és fejlődő országok gazdasági fejlődése állt. A Svéd Királyi Tudományos Akadémia elismerését kivívó kutatás során Deaton azt vizsgálta, hogy bizonyos jövedelemmel rendelkező fogyasztók mennyit költenek és takarítanak meg, milyen fogyasztási cikkeket vásárolnak, illetve milyen mérőszámokkal lehet a legjobban mérni egyes társadalmi csoportok jólétének vagy szegénységének mértékét.

„A jólétet növelő és a szegénységet csökkentő gazdaságpolitika kidolgozása előtt meg kell érteni a társadalom tagjainak egyéni fogyasztási szokásait. Angus Deaton mindenki másnál nagyobb mértékben járult hozzá a fogyasztási szokások megértéséhez.”- nyilatkozta a tudományos társaság.

⁶ http://www.jstor.org/stable/1805222?seq=1#page_scan_tab_contents

⁷ <http://www.britac.ac.uk/fellowship/directory/cor.cfm?member=3302>

⁸ <https://www.amphilsoc.org/members/electedApril2014>

⁹ http://econlog.econlib.org/archives/2015/10/the_deaton_para.html

¹⁰ <http://scholar.princeton.edu/deaton/letters-america>

¹¹ <http://www.wsj.com/articles/angus-deaton-awarded-nobel-prize-in-economic-sciences-1444649456?alg=y>

„Lényegében Deaton professzor munkája az alkalmazott közgazdaságtan legjavát testesíti meg.”- mondta Torsten Persson, a díj bizottságának titkára

Deaton kifejlesztett egy olyan rendszert, amely lakossági felmérések adatait felhasználva megbízhatóbb eredményekkel szolgál a lakossági fogyasztás gazdaságra gyakorolt hatásait illetően. 2013-ban megjelent könyvében kifejtette, hogy az elmúlt 250 évben mennyit fejlődött a világ lakossági átlagának egészségi állapota és jövedelmi helyzete. A pozitív változások mellett művében felhívja a figyelmet a nemzetek közötti és azokon belüli egyenlőtlenségekből fakadó veszélyekre. Deaton szerint öröndetes, hogy a politikai döntéshozók egyre nagyobb figyelmet szentelnek a jövedelem egyenlőtlenségek csökkentésének. Deaton szerint a lassuló globális gazdasági növekedés hatására az olló még szélesebbre nyílik, egyre több ember érezheti úgy, hogy rosszabbul él, mint korábban és ez veszélybe sodorhatja a demokráciát. 2013-ban megjelent könyvének, a *The Great Escape*-nek a konklúziója szerint a nemzetközi segélyezés nem javít a hátrányos helyzetű társadalmi rétegek anyagi helyzetén, helyette Deaton a szabad kereskedelmet és egyéb gazdaságpolitikai ösztönzők alkalmazását szorgalmazza.

3.1. A közgazdaságtan három nagy kérdése¹²

A Svéd Királyi Tudományos Akadémia szerint Angus kutatása segít választ találni a közgazdaságtan három nagy kérdésére.

3.1.1. Hogyan osztják meg elköltött jövedelmüket a fogyasztók különböző termékek között?

Ennek a kérdésnek a megválaszolása nem csupán azért fontos, hogy meg tudjuk érteni és előre tudjuk jelezni a fogyasztási szokásokat, hanem ezért is, hogy értékelni tudjuk a politikai reformok hatékonyságát. A fogyasztási szokások mélyebb ismerete segíthet megítélni például egy korábban kivetett fogyasztási adó különböző csoportok jólétére gyakorolt hatásait. Deaton korai munkáinak egyikéként 1980-ban kidolgozta az „**Almost Ideal Demand System**” nevű közgazdasági modellt, mely alkalmas egyes termékek iránti kereslet alakulásának becslésére a termékek árai és a fogyasztók jövedelmeinek változása függvényében. Deaton megközelítései és későbbi változtatásai a közgazdaságtan sztenderd eszközeivé váltak.

3.1.2. A társadalom jövedelmének mekkora részét költi el és mennyit takarít meg?

A tőke felhalmozódásának és az üzleti ciklusok méretének vizsgálata előtt meg kell értenünk a jövedelem és a fogyasztás között fennálló kölcsönhatást. Deaton 1990-ben egy tanulmányában bebizonyította, hogy az elfogadott fogyasztás elmélet nem reprezentatív, vagyis egyes társadalmi csoportok, nemzetek aggregát jövedelméből nem lehet következtetni a csoport fogyasztási szokásaira. Véleménye szerint az egyéni jövedelmekből és fogyasztási szokásokból kell következtetni a vizsgált populáció általános fogyasztási szokásaira. Deaton megközelítése bizonyítottan jobban segít megérteni a társadalmi rétegek fogyasztási mintáit, módszerét a modern közgazdaságtan adoptálta kutatási módszerei közé.

12 <http://www.economist.com/blogs/freexchange/2015/10/economics>

3.1.3. Hogyan mérhető és elemezhető a leghatékonyabban a jólét és a szegénység?

A legfrissebb kutatása során Deaton bemutatta, hogy a lakosság fogyasztási szokásainak megbízható felmérése miként segít felismerni a fejlődést előidéző mögöttes gazdasági mechanizmusokat. Deaton munkája fontos buktatókat tárt fel, amelyek a korábbi elemzéseket megakadályozták abban, hogy összehasonlítsák a szegénység mértékét különböző térben és időben. Kutatása jól szemléltette, hogy a háztartási adatok helyes felhasználása által hogyan következtethetünk a jövedelem és a kalória bevitel vagy a családon belüli nemi diszkrimináció közötti kapcsolatra. Deaton háztartás központú kutatása jelentős mértékben hozzájárult ahhoz, hogy a fejlődés-gazdaságtan elméleti tudományterülete empirikus tudományterületté alakuljon át.

4. MAGÁNÉLETE

Felesége, Anne Case a Princeton University Közgazdaságtan és Közügyek Alexander Stewart 1886 professzora, valamint a Fejlesztési Tanulmányok Kutatóprogram igazgatója.¹³ Két gyermekük 1970-ben és 1971-ben látta meg a napvilágot. Szabadidejükben szívesen járnak operába és pizstrágra horgászni.

5. EGYÉB KITÜNTETÉSEI, DÍJAI ÉS FELKÉRÉSEI

Lionel Robbins Memorial Lecturer, LSE, 2014

Member of the American Philosophical Society, 2014

Leontief Prize for Advancing the Frontiers of Economic Thought, 2014

BBVA Foundation Frontiers of Knowledge Award in Economics, Finance, and Management, 2012

Honorary Doctor of Economics, University of Cyprus, 2012

Honorary Doctor of Science in Social Science, Edinburgh University, 2011

Hicks Lecture, Economics, Oxford, 2011

Stone Lecture, Department of Economics, Cambridge, 2010

Foundation Lecture, Fitzwilliam College, Cambridge, 2010

Corresponding Fellow of the Royal Society of Edinburgh, 2010

Distinguished Fellow, American Economic Association, 2010

President, American Economic Association, 2009

Honorary Fellow of Fitzwilliam College, Cambridge, 2009. május

John Kenneth Galbraith Award, Agricultural and Applied Economics Association Foundation, 2009 július

Honorary Doctor of Letters, University of St. Andrews, 2008. június

Honorary D.Sc (Econ), University College, London, 2007. szeptember

Laurea Honoris Causa, University of Rome, Tor Vergata, 2007. június

Keynes Lecturer, British Academy, London, 2007

Commissioner, President Sarkozy's Commission on the Measurement of Economic Performance and Social Progress 2007–09

David Kinley Memorial Lecturer, University of Illinois at Urbana-Champaign, 2007 október

WIDER Annual Lecture, Helsinki, 2006

D. Gale Johnson Memorial Lecture, Chicago, 2005

Terence Gorman Memorial Lectures, University College London, 2005

¹³ <https://www.princeton.edu/~accase/>

Vice-President, American Economic Association, 2004–5
Review of Economic Statistics Lecturer, Harvard, 2003
Fellow of the British Academy, (corresponding), 2001
President, Section F, British Association, 2001–2
Executive Committee, American Economic Association, 1997–2000
Jacob Marshak Lecturer, Latin American Meetings of the Econometric Society, Caracas, 1994
Marshall Lecturer, Cambridge University, 1993
Fellow of the American Academy of Arts and Sciences, 1992
Fisher-Schultz Lecturer, Econometric Society European Meetings, Munich, September 1989
I.W. Arthur Memorial Lecturer, University of Iowa, 1989. április
Executive Committee of the Econometric Society, North American At-Large Member, 1988-91
First Simon Kuznets Memorial Lecturer, Yale University, 1987. március
Council of the Econometric Society, 1981, re-elected 1984, 1987
Medal of the University of Helsinki, 1981
Fellow of the Econometric Society, 1979
First recipient of Frisch Medal presented by the Econometric Society for the best applied paper in
Econometrica in the previous five years, 1978
Stevenson Prize for research in Economics, Cambridge University 1971

6. PUBLIKÁCIÓI¹⁴

1971

The British Economy: Key Statistics 1900-70, Times Newspapers Ltd. for London and Cambridge Economic Service, 1971. (In collaboration with London Cambridge Economic Service)

“Econometric Models for the Personal Sector”, Bulletin of the Oxford Institute of Statistics, Vol. 33, 1971. (With K.J. Wigley)

1972

“The F-test and R^2 : a Communication,” American Statistician

“Wealth Effects on Consumption in a Modified Life-Cycle Model”, Review of Economic Studies, Vol. 39, 1972

“Estimation and Testing of Systems of Demand Equations,” European Economic Review, Vol. 4, 1972

“Models of Consumer Behaviour: A Survey”, Economic Journal, Vol. 82, 1972. (With J.A.C. Brown). Reprinted in Surveys of Applied Economics, Vol. 1, Macmillan, 1973, for the Royal Economic Society and the Social Science Research Council

1974

“The Analysis of Consumer Demand in the United Kingdom,” 1900-70, Econometrica, Vol. 42, 1974

¹⁴ http://scholar.princeton.edu/sites/default/files/deaton/files/deaton_cv_nov14_updated.pdf

"A Reconsideration of the Empirical Implications of Additive Preferences," *Economic Journal*, Vol. 84, 1974

1975

Models and Projections of Demand in Post-War Britain, Cambridge Studies in Applied Econometrics, No. 1, Chapman and Hall, London, 1975

"The Measurement of Income and Price Elasticities," *European Economic Review*, Vol. 7, 1975, pp. 261- 274.

"Long-term Projections of Consumer Demand", in T.S. Khachaturov, ed, *Proceedings of IEA Conference on Long-term Planning*, Moscow 1972, Macmillan, 1975

The Structure of Demand in Europe 1920-70, Collins-Fontana, London, 1975 (reprinted in Vol. V of the Fontana Economic History of Europe, 1976)

1976

"A Simple Non-Additive Model of Demand", in L. Solari and J-N. du Pasquier (eds.), *Consommation Privee et Elargie*, North-Holland for ASEPELT, 1976

"Consumption," in T.S. Barker (ed.), *Modelling Economic Structure*, Cambridge Studies in Applied Economics, No. 2, Chapman and Hall, London, 1976

1977

"Involuntary Savings through Unanticipated Inflation," *American Economic Review*, Vol. 67, pp. 899– 910.

"Equity, Efficiency and the Structure of Indirect Taxation," *Journal of Public Economics*, Vol. 8, pp. 299- 312.

1978

"Testing Non-nested Non-linear Regression Models," (with M.H. Pesaran), *Econometrica*, Vol. 46, pp. 677-694, 1978

"Specification and Testing in Applied Demand Analysis," *Economic Journal*, Vol. 88, pp. 524-536, 1978

1979

"The Distance Function and Consumer Behaviour with Applications to Index Numbers and Optimal Taxation," *Review of Economic Studies*, Vol. 46, pp. 391-405.

"Optimally Uniform Commodity Taxes," *Economics Letters*, Vol. 2, pp. 357-61.

1980

"Testing Linear versus Logarithmic Regression Models," *Review of Economic Studies*, Vol. 47, pp. 275-291 (with G.B. Aneuryn-Evans)

Economics and Consumer Behavior, New York: Cambridge University Press. (450 pp.) (with J. Muellbauer)

"An Almost Ideal Demand System," *American Economic Review*, Vol. 70, pp. 312-26 (with J. Muellbauer)

1981

"Optimal Taxation and the Structure of Preferences," *Econometrica*, Vol. 49, pp. 1245-60.

"Functional Forms for Labour Supply and Commodity Demands with and without Quantity Restrictions," *Econometrica*, Vol. 49, pp. 1521-32.

"Theoretical and Empirical Approaches to Rationing", in Deaton, A. (ed.) *Essays in the Theory and Measurement of Consumer Behaviour*, New York: Cambridge University Press, 1981

Essays in the Theory and Measurement of Consumer Behaviour in Honor of Sir Richard Stone, New York: Cambridge University Press, 1981

The Measurement of Welfare: Theory and Practical Guidelines, LSMS Working Paper No. 7, The World Bank, Washington, D.C.

Three Essays on a Sri Lankan Household Survey, LSMS Working Paper No. 11, The World Bank, Washington, D.C.

"On the Usefulness of Macroeconomic Models," in *Papers Presented to the Panel of Academic Consultants*, No. 14, London, Bank of England

1982

"Model Selection Procedures, or Does the Consumption Function Exist?," in G. C. Chow and P. Corsi (eds.), *Evaluating the Reliability of Macroeconometric Models*, New York: John Wiley, pp. 43-69.

"Inequality and Needs: Some Experimental Results for Sri Lanka," *Population and Development Review*, Vol. 8 (Supplement), pp. 35-49.

1983

"An Explicit Solution to an Optimal Tax Problem," *Journal of Public Economics*, Vol. 20, pp. 333-46.

"Savings and Inflation: Theory and British Evidence," in F. Modigliani and R. Hemming (eds), *The Determinants of National Savings and Wealth*, London: Macmillan, pp. 125-39.

1984

"Statistical Models for Zero Expenditures in Household Budgets" (with M.J. Irish), *Journal of Public Economics*, Vol. 23, pp. 59-80.

"Household Surveys as a Data Base for the Analysis of Optimality and Disequilibrium," *Sankhya*, *The Indian Journal of Statistics*, Series B, Vol. 46, pp. 1-23.

1985

"A Profitable Approach to Labor Supply and Commodity Demands Over the Life Cycle," (with M. Browning and M. J. Irish), *Econometrica*, Vol. 53, 1985, pp. 503-43.

"The Time Series Consumption Function Revisited," (with Alan Blinder), *Brookings Papers on Economic Activity*, 1985, 2, pp. 465-521.

"Panel Data From Time Series of Cross-Sections," *Journal of Econometrics*, 1985, pp. 109-126.

"The Demand for Personal Travel in Developing Countries," *Transportation Research Record*, 1985

"Demand Analysis," in Z. Griliches and M.D. Intriligator (eds), *Handbook of Econometrics*, Vol. III, Amsterdam, North-Holland, 1986, pp. 1767-1839.

1986

"On Measuring Child Costs in Poor Countries" (with J. Muellbauer), *Journal of Political Economy*, 1986, Vol. 94, pp. 720-44.

"Optimally Uniform Commodity Taxes, Taste Differences and Lump-Sum Grants" (with N.H. Stern), *Economics Letters*, Vol. 20, pp. 263-6.

Collecting Panel Data in Developing Countries: Does It Make Sense? (with O. Ashenfelter and G. Solon), *Living Standards Measurement Study*, WP 23, The World Bank, Washington, D.C.

"Comment on Robert E. Hall's 'The Role of Consumption in Economic Fluctuations'", in Robert J. Gordon (ed), *The American Business Cycle: Continuity and Change*. Chicago, University of Chicago Press for NBER, 1986

1987

"Econometric Issues for Tax Design in Developing Countries," in D. Newbery and N.H. Stern (eds), *The Theory of Taxation for Developing Countries*, New York. Oxford University Press for the World Bank

"Life-Cycle Models of Consumption: Is the Evidence Consistent with the Theory?" in T. Bewley (ed.), *Advances in Econometrics*, New York. Cambridge University Press

"Estimating Own-and Cross-Price Elasticities from Survey Data," *Journal of Econometrics*, Vol. 36, pp. 7-30.

"Consumer's Expenditure," in J. Eatwell, M. Milgate, and P. Newman, *The New Palgrave*, London. Macmillan

"Sir Richard Stone," in J. Eatwell, M. Milgate, and P. Newman, *The New Palgrave*, London. Macmillan

1988

"Quality, Quantity and Spatial Variation in Price," *American Economic Review*, Vol. 78, June 1988, pp. 418-30.

1989

"The Influence of Household Composition on Household Expenditure Patterns: Theory and Spanish Evidence" (with J. Ruiz-Castillo and D. Thomas), *Journal of Political Economy*, Vol. 97, pp. 179-200, February 1989

"Rice Prices and Income Distribution in Thailand: A Non-parametric Analysis," *Economic Journal*, Vol. 99, supplement, pp. 1-37, March 1989

"Reflections on Empirical Microeconomics," *Economic Record* 65, March 1989, pp. 73-76.

"Looking for Boy-girl Discrimination in Household Expenditure Data," *World Bank Economic Review*, Vol. 3, pp. 1-15, January, 1989

"Why is Consumption So Smooth?" (with J. Y. Campbell), *Review of Economic Studies*, 56, pp. 357-74.

"Household Survey Data and Pricing Policies in Developing Countries," *World Bank Economic Review*, Vol. 3, No. 2, pp. 183-210.

1990

"Price Elasticities from Survey Data: Extensions and Indonesian Results," *Journal of Econometrics*, Vol. 44, pp. 281-309.

"Saving in Developing Countries: Theory and Review," *World Bank Economic Review*, (Proceedings of the World Bank Annual Conference on Development Economics 1989), pp. 61-96.

1991

"Saving and Liquidity Constraints," *Econometrica*, Vol. 59, No. 5, pp. 1221-1248, September 1991

"Gender Effects in Indian Consumption Patterns," (with Shankar Subramanian), *Sarvekshana*, Vol. 14(4), pp. 1-12.

1992

"On the Behavior of Commodity Prices" (with G. Laroque), *Review of Economic Studies*, Vol. 59, pp. 1- 23.

"Saving and Income Smoothing in the Côte d'Ivoire," *Journal of African Economies*, Vol. 1, No. 1, pp. 1- 24.

"Household Saving in LDC's: Credit Markets, Insurance, and Welfare," *Scandinavian Journal of Economics*, Vol. 94, No. 2, pp. 253-273.

Understanding Consumption, Oxford. Clarendon Press, 242 pp. (The 1991 Clarendon Lectures in Economics.) Spanish translation, *El Consumo*, Madrid, 1995. Chinese Translation, 2003

"Patterns of Aging in Thailand and Côte d'Ivoire" (with C. Paxson), in D. Wise, ed., *Topics in the Economics of Aging*, Chicago: University of Chicago Press, pp. 163-206.

1993

"Household Welfare and the Pricing of Cocoa and Coffee in Côte d'Ivoire: Lessons from the Living Standards Surveys" with (Dwayne Benjamin), *World Bank Economic Review*, Vol. 7, No. 3, pp. 293-318.

"John Richard Nicholas Stone 1913-1991," *Proceedings of the British Academy*, 82, pp. 475-492 (1992 Lectures and Memoirs)

1994

"Intertemporal Choice and Inequality" (with Christina Paxson), *Journal of Political Economy*, Vol. 102, No. 3, pp. 437-467.

"Saving, Growth, and Aging in Taiwan" (with Christina Paxson), in D. Wise, ed., *Studies in the Economics of Aging*, Chicago: University of Chicago Press, pp. 331-357.

"Food Demand Pattern and Pricing Policy in Maharashtra: An Analysis Using Household Level Survey Data" (with Kirit Parikh and Shankar Subramanian), *Sarvekshana*, 17(4), pp. 11-34.

1995

"Inequality Within and Between Households in Growing and Aging Economies" in M.G. Quibria, editor, *Critical Issues in Asian Development*, Hong Kong. Oxford University Press for the Asian Development Bank, pp. 18-38.

"Data and Econometric Tools for Development Analysis," in J. Behrman and T. N. Srinivasan (eds.), *Handbook of Development Economics*, North-Holland: Amsterdam and New York, Vol. 3A, pp. 1785- 1882.

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