

Summer School on Multidimensional Poverty Analysis

**Oxford Poverty and Human Development Initiative (OPHI)
Oxford Department of International Development, University of Oxford
Oxford, United Kingdom
11 – 23 August 2014**

Welcome!

Welcome to the OPHI Summer School on Multidimensional Poverty Analysis 2014. We are very pleased to be able to share with you our interest in these important topics. We hope that you find your experience at the Summer School an interesting and valuable one. We are sure that we will learn a lot from you at the same time that you are learning from us. Please do not hesitate to ask questions or request clarifications on any matter at any point during the course. We will present the course content through lectures but there will also be exercises and working group sessions that will help you to incorporate the new content from the lectures through learning-by-doing. It is important that you take the time to work on these exercises since they will help you to understand the subject matters better.

Welcome to Oxford!
The Instructors

The capability approach formulated by Amartya Sen, and further developed by the philosopher Martha Nussbaum and others, provides a conceptual framework that grounds many multidimensional approaches to poverty and social protection. This includes the MDGs, PRSPs, rights-based development, integrated social policy, and other specific initiatives.

In the past few years, interest in multidimensional quantitative techniques of analysis has surged. New quantitative methodologies have been developed for measurement, comparison, and analysis. Many more are still under development. It is a fast-moving area.

The purpose of this intensive summer school is to provide a thorough conceptual and technical introduction to some techniques of measuring multidimensional poverty with a strong emphasis on the Alkire-Foster method. Participants will revise axiomatic poverty measures and they will learn different multidimensional poverty techniques and problems they best solve. The empirical motivation for measuring multidimensional poverty will be presented as well as the conceptual motivation drawing on Sen's Capability approach.

1. Instructors

Alkire, Sabina (SA)

Sabina Alkire directs the Oxford Poverty and Human Development Initiative (OPHI), a research centre within the Department of International Development, University of Oxford. In addition, she is a Research Associate at Harvard and Vice President of the Human Development & Capability Association (HDCA). Her research interests include multidimensional poverty measurement and analysis, welfare economics, the capability approach, the measurement of freedoms and human development. Publications include 'Valuing Freedoms: Sen's Capability Approach and Poverty Reduction', as well as articles in Philosophy and Economics.

She holds a DPhil in Economics from Magdalen College, University of Oxford.

Apablaza, Mauricio (MA)

Mauricio Apablaza is a Researcher and Professor at the Universidad del Desarrollo, Chile. He is also a Research Associate at the Oxford Poverty and Human Development Initiative (OPHI). Previously, he worked as Research Officer and Outreach Coordinator at OPHI, at the University of Oxford. He holds a PhD in Economics from the University of Nottingham, United Kingdom and a Master in Public Policies from the Universidad del Desarrollo (Chile). He has been regional director for civil society organizations and consultant to international businesses and agencies (MEDSTAT/OECD, UNICEF, UNDP, SADC, WORLD BANK). He has led training programs for OPHI in South Africa, Malaysia, Indonesia, Jordan, Egypt, Hungary, Brasil, Chile, the Netherlands, Barbados, US, Vietnam, Nicaragua and Thailand, among others. His areas of research include institutions, international commerce and poverty dynamics.

Chatterjee, Mihika (MC)

Mihika Chatterjee is a Researcher at the Oxford Poverty and Human Development Initiative (OPHI). Her work at OPHI involves the computation and analysis of data for the Global Multidimensional Poverty Index (MPI), and research into its policy applications in India. She holds an MPhil in Development Studies from the University of Oxford, and a B.A. in Economics from The College of Wooster, Ohio. Her MPhil thesis explored India's Public Distribution System (PDS) and its effect on food security and child health. She has previously worked on Randomised Control Trials (RCTs) for the Abdul Jameel Poverty Action Lab (J-PAL).

Conconi, Adriana (AC)

Adriana Conconi is a Research Officer at the Oxford Poverty & Human Development Initiative (OPHI). She holds a Degree and Master Degree in Economics from the Universidad Nacional de La Plata (UNLP) – Argentina. She is enrolled in the Master in Public Administration in International Development (MPA/ID) at Harvard University (expected degree: 2015). She has been working with OPHI since 2011, and is leading the MPI 2014 computations. Her research interests include poverty analysis, development welfare and inequality. She has previously worked as a Researcher at the Centro de Estudios Distributivos, Laborales y Sociales (CEDLAS), at the UNLP and as a Professor in graduate and post-graduate courses at UNLP and Universidad de San Andres (Argentina).

Hammock, John (JH)

Prof. John Hammock is co-founder and Research Associate of the Oxford Poverty and Human Development Initiative. He is an Associate Professor of Public Policy at Tufts University's Fletcher School and a Research Fellow at the Frederick S. Pardee Center for the study of the Longer-Range Future at Boston University. He is the Treasurer of the Human Development Capability Association. He founded and was director of the Feinstein International Famine Center at Tufts University. He served as Executive Director at Oxfam America from 1984-1995

and as Executive Director at ACCION International from 1973-1980. He holds a Ph.D. in International Relations from Tufts University and an Honorary Doctor of Laws degree from Denison University. He was born in Cuba. He has two daughters and two grandchildren.

Housseini, Bouba (BH)

Bouba Housseini is currently a Research Officer at the Oxford Poverty and Human Development Initiative (OPHI). He holds a Ph.D. in Economics from Université Laval in Canada. He earned his M.Sc. in Statistics at the Institut National de Statistique et d'Économie Appliquée (INSEA) in Morocco. His research interests include human development, welfare economics and applied econometrics. He has taught Development Economics in undergraduate and graduate programmes at Université Laval in Canada. He has served as a consultant to the International Development Research Center (IDRC) in Canada, and for Capital Consulting in Morocco. His work experience also includes collaborations with various UN agencies, in particular, the UNDP Human Development Report Office (HDRO).

Robles A., Gisela (GR)

Gisela Robles Aguilar is a Research Officer at the Oxford Poverty & Human Development Initiative (OPHI). She has recently completed a DPhil degree in Comparative Social Policy, University of Oxford. Her research is focused in analyzing the extent to which participation in cash transfers is constrained by the conditionality attached to such anti-poverty programmes. She worked as a research assistant for the Oxford Poverty and Human Development Initiative (OPHI) from 2008 to 2012.

Sarwar, Moizza (MS)

Moizza B Sarwar works part-time at OPHI and develops policy briefs and research material for dissemination and discussion at international forums and government meetings as well as material for publication on the OPHI website. She is a graduate student at the University of Oxford's Department of Social Policy and her current research area focuses on informal settlements in Cape Town, South Africa and Karachi, Pakistan.

Seth, Suman (SS)

Suman Seth is a Senior Research Officer at OPHI. He has also worked for the Regional Bureau of Latin America and the Caribbean, UNDP, and the Development Research Group at the World Bank. His primary interest lies in the area of Development Economics with special emphasis on measurement methodologies and policy-oriented applications of multidimensional welfare and poverty measures. He holds a PhD in economics from Vanderbilt University, USA.

Vaz, Ana (AV)

Ana Vaz is a Research Officer at OPHI. She has also worked for PricewaterhouseCoopers and at the Catholic University of Portugal. Her primary research interests are Development Economics and Applied Microeconomics. Her work at OPHI has focused on the policy applications of the Alkire Foster method for multidimensional measurement. She holds a DPhil in Economics from University of Oxford.

2. Programme

<i>Day 1 11 August</i>	<i>Day 2 12 August</i>	<i>Day 3 13 August</i>	<i>Day 4 14 August</i>	<i>Day 5 15 August</i>	<i>Day 6 16 August</i>
Introduction & Overview of the Summer School	MD Poverty Methods & Counting Approaches	Paper-based Exercises on AF Methodology	Working Groups: Normative Issues	Exam (All)	Working Groups' Preparing Presentations
Why Multidimensional (MD) Poverty Measures?	Case Study: the International MPI & Databank	Introduction to the Capability Approach	Survey Design, Bias Analysis, Missing Values, & Sample Drop	Measures of Associations & Redundancy	Working Groups' Results Presentations
Unidimensional Poverty Measurement	Alkire Foster (AF) Methodology	Normative Issues in MD Poverty	STATA Lab & Descriptive statistics	Working Groups: Creating the Deprivation Matrix	
Properties of MD Poverty	Paper-based Exercises on AF Methodology	Case Studies: National MD Poverty Measures	Working Groups: Exploring the Dataset	Working in Groups: Creating the Deprivation Matrix	

<i>Day 7 18 August</i>	<i>Day 8 19 August</i>	<i>Day 9 20 August</i>	<i>Day 10 21 August</i>	<i>Day 11 22 August</i>	<i>Day 12 23 August</i>
Aggregated Results	Sensitivity, Robustness Analysis & SE	Inequality Among The Poor	Targeting & Impact Evaluation	Presentations of Working Group Results	Non Compulsory Exam
Working Groups: National Results	Working Groups: Sensitivity, Robustness Analysis & SE	Regression Analysis	Institutions & Policy	Presentations of Working Group Results	
Decomposition by Subgroup & Dimension	Time Series & Chronicity	Clarifying Concepts and Communicating your Results	Missing Dimensions of Household Surveys on Poverty	Presentations of Working Group Results	
Working Groups: Subgroup Decomposition, Maps & Dimensional Breakdown	Interpreting the MPI Results	Working Groups' Results Presentations	Review of the Course & Closure	Presentations of Working Group Results	

3. Syllabus

Topic: Introduction & Overview of the Summer School

Session: Monday 11 August, 09:00-10:30

Instructor: Sabina Alkire

Contents:

- Presentation of the OPHI Team
- Presentation of the Participants
- Presentation of the Summer School, aims and goals.
- Presentation of the programme of the Summer School
- Logistic Information

Pre-Summer School Reading List:

1. Alkire S., J. E. Foster, S. Seth, S. Santos, J. M. Roche, P. Ballon, Multidimensional Poverty Measurement and Analysis, Oxford University Press, forthcoming.
2. ALKIRE, S. (2008), "The Capability Approach to the Quality of Life". Background paper to the Commission on the Measurement of Economic Performance and Social Progress. <http://www.ophi.org.uk/wp-content/uploads/OPHI-RP-2a.pdf>
3. ALKIRE, S. and J. FOSTER (2009), "Counting and Multidimensional Poverty" in von Braun, Joachim, Vargas Hill, Ruth and Rajul Pandya-Lorch eds, The Poorest and Hungry: Assessment, Analysis and Actions, p 77-90. Washington DC: International Food Policy Research Institute <http://www.ifpri.org/sites/default/files/publications/oc63ch03.pdf>
4. ALKIRE, S. and M. E. SANTOS (2011), "Training Material for Producing National Human Development Reports" <http://www.ophi.org.uk/wp-content/uploads/MPI-Primer1.pdf>.

Topic: Why Multidimensional (MD) Poverty Measures?

Session: Monday 11 August, 11:00-12:30

Instructor: Sabina Alkire

Contents:

- Conceptual and Philosophical arguments for multidimensional poverty measures
- Empirical evidence of Uni vs. Multi-Dimensional Poverty
- Examples of interest in multidimensional poverty measures in government agencies of different countries.

Reading:

1. Alkire S., J. E. Foster, S. Seth, S. Santos, J. M. Roche, P. Ballon, Multidimensional Poverty Measurement and Analysis, Oxford University Press, forthcoming, (Chap. 1).

Further reading:

1. ALKIRE, S. and M. E. SANTOS (2009), "Poverty and Inequality Measurement", in DENEULIN, S. and SHAHANI, L. An Introduction to the Human Development and Capability Approach, Chapter 6. London, Earthscan. http://www.idrc.ca/en/ev-146721-201-1-DO_TOPIC.html
2. ALKIRE, S. and M. E. SANTOS (2010), "Acute Multidimensional Poverty: A new Index for Developing Countries", OPHI WP 38. <http://www.ophi.org.uk/wp-content/uploads/ophi-wp38.pdf>
3. ALKIRE, S. and S. SETH (2008), "Multidimensional Poverty Measurement and BPL Methods in India: A Comparison of Methods". OPHI Working Paper No 15.
4. DUCLOS, J.-Y. and ARAAR, A. 2006. 'Poverty and Equity Measurement, Policy, and Estimation with DAD', Springer and IDRC, Berlin and Ottawa.
5. OPHI (2010), Bhutan's Gross National Happiness Index. <http://www.ophi.org.uk/policy/national-policy/bhutan/>
6. OPHI (2011), Colombia's National Poverty Measure. <http://www.ophi.org.uk/policy/national-policy/colombia-mpi/>
7. RUGGERI-LADERCHI, C., SAITH, R. and F. STEWART (2003), "Does it Matter that we do not agree on the definition of poverty? A Comparison of Four Approaches." Oxford Journal of Development Studies. 31:3 243-274.
8. SANTOS, M.E. and K. URA (2008), "Multidimensional Poverty in Bhutan: Estimates and Policy Implications". OPHI Working Paper No 13.
9. SEN, A. (1999), Development as Freedom, Oxford University Press. Chapter 4.
10. SEN, A. K. (2009), The Idea of Justice, Chapter 12, London, Allen Lane.
11. United Nations (2003). Indicators for Monitoring the Millennium Development Goals, New York: United Nations.
12. United Nations (2008). The Millennium Development Goals Report 2008. New York: United Nations.

Topic: Unidimensional Poverty Measurement

Session: Monday 11 August, 13:30-15:00

Instructor: Suman Seth

Contents:

- Steps in poverty measurement: identification and aggregation.
- Properties of unidimensional poverty measures.
- Unidimensional poverty measures.
- Poverty Orderings (Unidimensional stochastic dominance conditions and the links to poverty measures)

Reading List:

2. Alkire S., J. E. Foster, S. Seth, S. Santos, J. M. Roche, P. Ballon, Multidimensional Poverty Measurement and Analysis, Oxford University Press, forthcoming, (Chap. 2.1).
3. Foster, J. E., S. Seth, M. Lokshin, and Z. Sajaia (2013), A Unified Approach to Measuring Poverty and Inequality: Theory and Practice, The World Bank, Free Download:
<https://openknowledge.worldbank.org/handle/10986/13731>
4. Foster J. E. and A. K. Sen (1997), Annexe of "On Economic Inequality", Oxford University Press.
5. Foster (2006): "Poverty Indices" in A. de Janvry and R. Kanbur (eds), Poverty, Inequality and Development: Essays in Honor to Erik Thorbecke. New York: Springer Science.

Further readings:

1. Atkinson, A. B. (1987): "On the Measurement of Poverty", *Econometrica*. 55: 749-764.
2. Fields, G. (2001): *Distribution and Development*. New York: Russell Sage Foundation and Cambridge, MA: MIT. Chapter 4.
3. Foster, J. E. and A. SHORROCKS. (1988): "Poverty Orderings and Welfare Dominance", *Social Choice and Welfare*. 5: 179-198.
4. Ray, D. (1998): *Development Economics*. New Jersey: Princeton. Chapter 8.

Topic: Properties of Multidimensional (MD) Poverty

Session: Monday 11 August, 15:30-17:30

Instructor: Suman Seth

Contents:

- Properties of multidimensional poverty measures that are natural extensions of the unidimensional framework.
- Properties specific to multidimensional measures.
- Multidimensional poverty measures: issues of identification and aggregation.
- Multidimensional Poverty Measures.

Reading List:

1. Alkire S., J. E. Foster, S. Seth, S. Santos, J. M. Roche, P. Ballon, Multidimensional Poverty Measurement and Analysis, Oxford University Press, forthcoming, (Chap. 2.2, 2.3, 2.5).
2. ALKIRE, S. and J.E. FOSTER. (2007): "Counting and Multidimensional Poverty Measurement", Working Paper No 7 and No 32 (revised), Oxford Poverty and Human Development Initiative, <http://www.ophi.org.uk/wp-content/uploads/OPHI-wp32.pdf>. Also note the version in Spanish: "Recuento y Medicion Multidimensional de la Pobreza", <http://www.ophi.org.uk/wp-content/uploads/ophi-wp7-es.pdf>
3. BOURGUIGNON, F. and S. CHAKRAVARTY. (2003): "The Measurement of Multidimensional Poverty", Journal of Economic Inequality. 1: 25-19.

Further readings:

1. ATKINSON, A. B. (2003): "Multidimensional Deprivation: Contrasting Social Welfare and Counting Approaches", Journal of Economic Inequality. 1: 51-65.
2. BRANDOLINI, A., and G. D'ALESSIO (1998). "Measuring Well-being in the Functioning Space". Mimeo. Rome. Banco d'Italia Research Department.
3. CHAKRAVARTY, S.R., D'AMBROSIO, A., 2006, The Measurement of Social Exclusion. Review of Income and Wealth. 523, 377-398.
4. CHAKRAVARTY, S. R. and SILBER, J. (2008). Measuring Multidimensional Poverty: The Axiomatic Approach in Kakwani, N. and Silber, J. (eds), *Quantitative Approaches to Multidimensional Poverty Measurement*. UNDP. Palgrave Macmillan. New York.
5. DEUTSCH, J., and J. SILBER (2005): "Measuring Multidimensional Poverty: An Empirical Comparison of Various Approaches", The Review of Income and Wealth, 51, 145-174
6. GORDON, D., S. NANDY, C. PANTAZIS, S. PEMBERTON, and P. TOWNSEND (2003): "The Distribution of Child Poverty in the Developing World", Bristol: Centre for International Poverty Research.
7. KOLM, S. C. (1977): "Multidimensional Egalitarianism", Quarterly Journal of Economics, 91, 1-13.
8. MAASOUMI, E., and M. A. LUGO (2008): "The Information Basis of Multivariate Poverty Assessments", in Quantitative Approaches to Multidimensional Poverty Measurement, ed. by N. Kakwani, and J. Silber. New York: Palgrave-MacMillan, 1-29.
9. THORBECKE, E. (2008): "Multidimensional Poverty: Conceptual and Measurement Issues", in The Many Dimensions of Poverty ed. By N. Kakwani, and J. Silber. New York: Palgrave MacMillan.
10. TSUI, K. (2002): "Multidimensional Poverty Indices", Social Choice and Welfare. 19: 69-93.

Topic: Multidimensional Poverty Methods and Counting Approaches

Session: Tuesday 12 August, 09:00-10:30

Instructor: Sabina Alkire

Contents

- The counting approach as a method for identifying the poor. Steps involved.
- Links of this approach to the concept of poverty.
- Salient implementations of the counting approach to measure poverty over time. Their use in policy.

Reading:

1. Alkire S., J. E. Foster, S. Seth, S. Santos, J. M. Roche, P. Ballon, Multidimensional Poverty Measurement and Analysis, Oxford University Press, forthcoming, (Chap. 3 & 4).

Further reading:

1. ATKINSON, A. B. (2003). Multidimensional deprivation: contrasting social welfare and counting approaches. *Journal of Economic Inequality* 1, 51-65.
2. ALKIRE, S., BALLON, P., FOSTER, J. E., ROCHE, J. M., SANTOS, M. E. and SETH, S. (forthcoming) "Counting Approaches", Draft of section from Chapter 3 from forthcoming book on Multidimensional Poverty Measurement and Analysis.

Topic: Case Studies: International MPI and Databank

Session: Tuesday 12 August, 11:00-12:30

Instructors: Adriana Conconi, Ana Vaz and Mihika Chatterjee

Contents:

- An introduction to the choices and limitations behind the international comparable MPI and the many types of possible analyses.

Reading List:

1. ALKIRE, S., and M.E. SANTOS. (2010) "Acute Multidimensional Poverty: A New Index for Developing Countries." Background paper for the 2010 Human Development Report. UNDP (United Nations Development Programme).
2. ALKIRE, S., J.M. ROCHE and S. SETH (2012). "Sub-national Disparities and Inter-temporal Evolution of Multidimensional Poverty across Developing Countries" OPHI research in progress 32a. <http://www.ophi.org.uk/wp-content/uploads/OPHI-RP-32a-2011.pdf>

Topic: Alkire Foster (AF) Methodology

Session: Tuesday 12 August, 13:30-15:00 (theory) 15:30-17:30 (Paper exercises) 13 Aug 09:00-10:30 (Revisions)

Instructor: Ana Vaz

Contents:

- Key literature on multidimensional poverty measures
- The steps of identification and aggregation in Alkire Foster method
- The importance of a joint distribution vs. a marginal distribution

Reading:

1. Alkire S., J. E. Foster, S. Seth, S. Santos, J. M. Roche, P. Ballon, Multidimensional Poverty Measurement and Analysis, Oxford University Press, forthcoming, (Chap. 5).

Further reading:

1. ALKIRE, S. (2008) "Choosing dimensions: The capability approach and multidimensional poverty." In The Many Dimensions of Poverty, eds., N. Kakwani and J. Silber. Basingstoke: Palgrave Macmillan.
2. ALKIRE, S. and S. DENEULIN (2009). "The Human Development and Capability Approach." In An Introduction to the Human Development and Capability Approach: Freedom and Agency, eds., S. Deneulin and L. Shahani. London: Earthscan.
3. ALKIRE, S., and J.E. FOSTER (2011). "Counting and Multidimensional Poverty Measurement." Journal of Public Economics. 95(7-8): 476-487.
4. ALKIRE, S., and J.E. FOSTER(2011). "Understandings and Misunderstandings of Multidimensional Poverty Measurement." Journal of Economic Inequality. 9(2):289-314.
5. ALKIRE, S., and M.E. SANTOS. 2010. "Acute Multidimensional Poverty: A New Index for Developing Countries." Background paper for the 2010 Human Development Report. UNDP (United Nations Development Programme).
6. ALKIRE, S., M.E SANTOS, S. SETH and G. YALONETZKY. 2010. "Is the Multidimensional Poverty Index robust to different weights?" OPHI Research in Progress Paper 22a.
7. ALKIRE, S. and M. E. SANTOS (2011), "Training Material for Producing National Human Development Reports" <http://www.ophi.org.uk/wp-content/uploads/MPI-Primer1.pdf>.
8. SEN, A, K. 1999. Development as Freedom. Oxford: Oxford University Press.
9. UNDP (United Nations Development Programme). 2010. Human Development Report 2010. The Real Wealth of Nations: Pathways to Human Development. UNDP, New York.
10. YALONETZKY, G. 2011. "A note on the standard errors of the members of the Alkire Foster family and its components", OPHI RP. No 25.

Topic: Introduction to the Capability Approach

Session: Wednesday 13 August, 11:00-12:30

Instructor: Sabina Alkire

Contents:

- History and Motivation
- Capabilities
- Functionings
- Agency
- Implications for economics
- Issues for measurement

Reading:

1. Alkire S., J. E. Foster, S. Seth, S. Santos, J. M. Roche, P. Ballon, Multidimensional Poverty Measurement and Analysis, Oxford University Press, forthcoming, (Chap. 6).

Further reading:

1. ALKIRE, S. (2005) Capabilities and Functionings: Definition and Justification. http://hd-ca.org/pubs/HDCA_Briefing_Concepts.pdf
2. ALKIRE, S. and S. DENEULIN (2009), "The Human Development and Capability Approach" in DENEULIN, S. and L. SHAHANI (eds) An Introduction to Human Development and Capability Approach, draft chapters. Chapter 2. http://www.idrc.ca/en/ev-146685-201-1-DO_TOPIC.html
3. SEN, A. (1989), "Development as Capability Expansion" In S. FUKUDA-PARR and A.K. SHIVA KUMAR, Readings in Human Development, Oxford University Press (2003).
4. EN, A. (1999), Development as Freedom, Oxford University Press. Chapters 1-3.

Topic: Normative Issues in Multidimensional Poverty Measurement

Session: Wednesday 13 August, 13:30-15:00 (theory), 14 August, 09:00-10:30 (working groups)

Instructor: Sabina Alkire

Contents:

- Choice of the unit of analysis
- Order of aggregation
- Choice of dimensions
- Choice of variables/indicators for dimensions
- Choice of poverty lines
- Choice of weights
- Choice of identification criterion & aggregate measures

Reading:

1. Alkire S., J. E. Foster, S. Seth, S. Santos, J. M. Roche, P. Ballon, Multidimensional Poverty Measurement and Analysis, Oxford University Press, forthcoming, (Chap. 6).

Further reading:

1. ALKIRE, S. and M. E. SANTOS (2009), "Poverty and Inequality Measurement", in DENEULIN, S. and SHAHANI, L. An Introduction to the Human Development and Capability Approach, Chapter 6. London, Earthscan. http://www.idrc.ca/en/ev-146721-201-1-DO_TOPIC.html
2. ALKIRE, S. (2002), "Dimensions of Human Development" World Development 30: 181-205. (This article surveys the 'lists' of dimensions of human development that have been proposed – on the basis of participatory planning or research, philosophy, synthesis of existing literature, cross-cultural psychology, psychology of human development, and so on).
3. ALKIRE, S. (2007), "Choosing Dimensions: The Capability Approach and Multidimensional Poverty." (This paper observes how researchers have, in practice, selected dimensions of poverty, and finds they generally use one of five methods).
4. DECANCO, K. and M. A. LUGO (2008), "Setting weights in multidimensional indices of well-being". <http://www.ophi.org.uk/pubs/W1.Decancq-Lugo.pdf.pdf> and the references therein.
5. FOSTER, J. E. (1998) "Absolute versus Relative Poverty" American Economic Review, Papers and Proceedings. 88: 335-341.
6. RAVALLION, M. and S. CHEN (2009), "Weakly Relative Poverty" Policy Research Working Paper 4844, World Bank, http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1348985

Topic: Case Studies: National Multidimensional Poverty Measures

Session: Wednesday 13 August, 15:30-17:30

Instructors: Ana Vaz, Adriana Conconi, Gisela Robles A. and Mihika Chatterjee

Contents:

- An overview of national A&F measures in Colombia, Mexico, Bhutan and South Africa.

Reading List:

1. HERNANDEZ-LICONA (2014) "Multidimensional Poverty Measurement: The Mexican Wave", Mexico: National Council for the Evaluation of Social Development Policy (CONEVAL), July [available at: <http://www.mppn.org/wp-content/uploads/1-Mexico-Berlin-CONEVAL2.pdf> accessed on 9 Aug 2014]
2. MAC MASTER, B (2013) "Multidimensional Poverty Index Applications - Colombia", Bogota: Department of Social Prosperity, June [available at: <http://www.ophi.org.uk/wp-content/uploads/The-Case-of-Colombia-Mr-Bruce-Mac-Master-Director-of-the-Department-fro-Social-Prosperity-DPS-Colombia.pdf?0a8fd7> accessed on 9 Aug 2014]
3. NATIONAL STATISTICS BUREAU (2014) "Bhutan Multidimensional Poverty Index", Thimphu: NSB [available at: www.nsb.gov.bt/publication/download.php?id=279 accessed on 9 Aug 2014]
4. STATISTICS SOUTH AFRICA (2014) "The South African MPI", Pretoria: Stats SA [available at <http://beta2.statssa.gov.za/publications/Report-03-10-08/Report-03-10-082014.pdf> accessed on 9 Aug 2014]
5. TOBGYAL, S. (2014) "The Bhutan Multidimensional Poverty Index", Thimpu: Gross National Happiness Commission, July [available at: <http://www.mppn.org/bhutan-multidimensional-poverty-index/> accessed on 9 Aug 2014]
6. CONPES (Consejo Nacional de Politica Economica y Social) (2012) "Metodologias oficiales y arreglos institucionales para la medicion de la pobreza en Colombia", Bogota, 28 May. (Documento Conpes Social, 150) [available at: dnp.gov.co/LinkClick.aspx?fileticket=...tabid=1473 accessed on 9 Aug 2014]
7. DIARIO OFICIAL DE LA FEDERACION (2004) "Ley General de Desarrollo Social [General Law of Social Development]", México: Camara de Diputados, 20 January [available at <http://www.diputados.gob.mx/LeyesBiblio/pdf/264.pdf> accessed on 9 Aug 2014].

Topic: Survey Design, Bias Analysis, Missing Values and Sample Drop

Session: Thursday 14 August, 11:00-12:30

Instructors: Adriana Conconi and Ana Vaz

Contents:

- An overview of common data issues related to the use of Household Surveys for
- Multidimensional poverty measurement

Reading:

1. Alkire S., J. E. Foster, S. Seth, S. Santos, J. M. Roche, P. Ballon, Multidimensional Poverty Measurement and Analysis, Oxford University Press, forthcoming, (Chap. 7).

Further reading:

1. DEATON, Angus (1997) The Analysis of Household Surveys: A Microeconomic Approach to Development Policy, Washington: The World Bank. (Specially chapters 1 and 2)
2. BROGAN, D. "Sampling error estimation for survey data", in Household Sample Surveys in
3. Developing and Transition Countries, New York: United Nation Publication.
4. CHROMY, J. R. and ABEYASEKERA, S. (2005) "Statistical analysis of survey data", in Household Sample Surveys in Developing and Transition Countries, New York: United Nation Publication.
5. KASPRZYK, D (2005) "Measurement error in household surveys: sources and measurement", in Household Sample Surveys in Developing and Transition Countries, New York: United Nation Publication.
6. LEPKOWSKI, J. "Non-observation error in household surveys in developing countries", in Household Sample Surveys in Developing and Transition Countries, New York: United Nation Publication.
7. YANSANEH, I (2005) "Overview of sample design issues for household surveys in developing and transition countries", in Household Sample Surveys in Developing and Transition Countries, New York: United Nation Publication.

Topic: Stata Lab & Descriptive Stats

Session: Thursday 14 August, 13:30-15:00 (lecture), 15h30-17h30 (Working Groups: exploring the dataset)

Instructor: Adriana Conconi, Ana Vaz and Mihika Chatterjee

Contents:

- Review of STATA
- Descriptive Statistics (categorical and continuous variables)
- Generating variables using loops
- The structure of the AF - do file.

Reading List:

1. CAMERON A.C. and P.K. TRIVEDI. "Microeconometrics using STATA" Revised Edition (2010) Stata Press, 706 pages. Chapter 1-2
2. STATA Press. Getting Started with Stata for Windows.

Useful resource:

1. General help can be found at <http://www.stata.com/links/resources-for-learning-stata>.
2. UCLA Academic Technology Services available at www.ats.ucla.edu/stat/stata
3. Prof. Cameron's webpage at the University of Davis, available at <http://cameron.econ.ucdavis.edu/stata/stata.html>

Topic: Exam

Session: Friday 15 August, 09:00-10:30

Instructors: Gisela Robles A., Bouba Housseini and Mihika Chatterjee

Contents:

- Why Multidimensional (MD) Poverty Measures?
- Unidimensional Poverty Measurement
- Properties of MD Poverty
- Alkire Foster (AF) Methodology
- Introduction to the Capability Approach
- Normative Issues in MD Poverty Measurement.

Topic: Measures of Associations and Redundancy

Session: Friday 15 August, 11:00-12:30

Instructors: Sabina Alkire and Ana Vaz

Contents:

- Measuring association in contingency tables: local, and global odds ratios
- Non-model based analysis of ordinal association: concordance and discordance measures of association, gamma, Kendall-tau.
- Introduction to redundancy: Principles of EFA.

Reading:

1. Alkire S., J. E. Foster, S. Seth, S. Santos, J. M. Roche, P. Ballon, Multidimensional Poverty Measurement and Analysis, Oxford University Press, forthcoming, (Chap. 7).

Further reading:

1. AGRESTI, A. (1990) Categorical data analysis, New York, NY; Toronto: John Wiley & Sons. Chapter 2.
2. ANDERSON, T.W. (2003) An Introduction to Multivariate Statistical Analysis, 3rd Edition, John Wiley & Sons. Chapter 14.
2. AGRESTI, A. (1984). Analysis of ordinal categorical data, New York, NY ; Toronto: John Wiley & Sons.

Topic: Aggregated Results, Decomposition by Subgroup and Dimensional Breakdown

Session: Monday 18 August, 09:00-10:30 (Aggregated Results), 11:00-12:30 (Working Groups), 13:30-15:00 (Decomposition by Subgroup and dimension), 15:30-17:30 (Working Groups).

Instructors: Adriana Conconi, Mauricio Aablaza, Suman Seth and Gisela Robles

Contents:

- Decompositions by population subgroups
- Breaks-down by dimension
- Analysis of Trends in AF Measure.

Reading List:

1. ALKIRE, S. and J. M. ROCHE (2013), "How Multidimensional Poverty went down: Dynamics and Comparison", Research briefing <http://www.ophi.org.uk/wp-content/uploads/How-Multidimensional-Poverty-went-down.pdf?7ff332>
2. ALKIRE, S. and M. E. SANTOS (2010), "Acute Multidimensional Poverty: A new Index for Developing Countries", OPHI WP 38. <http://www.ophi.org.uk/wp-content/uploads/ophi-wp38.pdf>
3. ALKIRE, S. and S. SETH (2013), "Selecting a Targeting Method to Identify BPL Households in India". Social Indicators Research, Volume 112, Issue 2, pp 417-446.
4. ALKIRE, S. and S. SETH (2013), "Multidimensional Poverty Reduction in India Between 1999 and 2006: Where and How?". OPHI Working Paper No 60.
5. APABLAZA, M., OCAMPO, J.P., & YALONETZKY, G. (2010). 'Decomposing Changes in Multidimensional Poverty in 10 Countries', mimeo, Oxford Poverty and Human Development Initiative, Oxford Department of International Development, University of Oxford.
6. BATANA, Y. (2008), "Multidimensional Measurement of Poverty in Sub-Saharan Africa", OPHI WP. NO 13.
7. BENNETT, C. and S. SINGH, (2010), "Multidimensional poverty: Measurement, Estimation and Inference", manuscript.
8. ROCHE J. M. (2013), "Monitoring Progress in Child Poverty Reduction: Methodological Insights and Illustration to the Case Study of Bangladesh", Social Indicators Research, Volume 112, Issue 2, pp 363-390
9. SANTOS, M. E. and URA, K. (2008), "Multidimensional Poverty in Bhutan: Estimates and Policy Implications", OPHI WP. 14
10. SANTOS, M.E, LUGO, M. A., LOPEZ-CALVA, L. F., CRUCES, G., BATTISTON, D. (2010), "Refining the Basic Needs Approach: A Multidimensional Analysis of Poverty in Latin America", Research on Economic Inequality, Chapter 1, Vol. 18, forthcoming.

Topic: Sensitivity, Robustness Analysis and Standard Errors

Session: Tuesday 19 August, 09:00-10:30 (lecture), 11:00-12:30 (working groups)

Instructors: Suman Seth and Bouba Housseini

Contents:

- Unidimensional versus multidimensional dominance
- Application of Stochastic Dominance in Alkire-Foster context
- Computation of standard errors of point estimates
- Rank robustness; Spearman, and Good & Kruskal's correlation coefficients and Rank concordance
- Robustness of point estimates with respect to the selection of weights, poverty cut-off and deprivation cut-offs.

Reading:

1. Alkire S., J. E. Foster, S. Seth, S. Santos, J. M. Roche, P. Ballon, Multidimensional Poverty Measurement and Analysis, Oxford University Press, forthcoming, (Chap. 8).

Further reading:

1. ALKIRE, S., and J.E. FOSTER (2011). "Counting and Multidimensional Poverty Measurement." Journal of Public Economics. 95(7-8): 476-487.
2. ALKIRE, S., ME. SANTOS, S. SETH, and G. YALONETZKY (2010). Is the Multidimensional Poverty Index robust to different weights? OPHI Working Paper 22a
3. ATKINSON, A.B and F. BOURGUIGNON (1982), "The comparison of multidimensioned distributions of economic status", Review of Economic Studies, 49(2): 183-201.
4. DEATON, A. (1997). The analysis of household surveys. A microeconomic approach to development policy. The World Bank
5. DUCLOS, J-Y., SAHN, D and S. YOUNGER (2006), "Robust Multidimensional Poverty Comparisons", The Economic Journal. 116(514): 943-68.
6. LYNN, P. (2007). Hypothesis testing using complex survey data.
<http://www.restore.ac.uk/Longitudinal/surveynetwork/documents/PragueCourseNotesPLv3.pdf>
7. YALONETZKY, G (2011), Conditions for the Most Robust Poverty Comparisons Using the Alkire-Foster Family of Measures. OPHI Working Paper 44b.
8. YALONETZKY, G (2011). A note on the standard errors of the members of the Alkire Foster family and its components. OPHI Working Paper 25a (work in progress)
9. YALONETZKY, Gaston (2009), "Testing for stochastic dominance among additive, multivariate welfare functions", manuscript.
10. ANDERSON, G. (1996), 'Nonparametric tests of stochastic dominance in income distributions', Econometrica, 64(5): 1183-1193.
11. ANDERSON, G. (2008), "The empirical assessment of multidimensional welfare, inequality and poverty: Sample weighted multivariate generalizations of the Kolmogorov-Smirnov two sample test for stochastic dominance", Journal of Economic Inequality, 6(1): 73-87.
12. DAVIDSON, R. and J. DUCLOS (2000), "Statistical inference for stochastic dominance and for the measurement of poverty and inequality", Econometrica, 68(6): 1435-65.
13. DUCLOS, J-Y., SAHN, D and S. YOUNGER (2006), "Robust Multidimensional Poverty Comparisons with Discrete Indicators of Well-being", CIRPEE Working Paper, 06-28.

Topic: Time Series and Chronicity

Session: Tuesday 19 August, 13:30-15:00

Instructors: Sabina Alkire and Ana Vaz

Contents:

- Time decompositions for panel datasets introducing transitional probabilities.
- Empirical examples in both cross section and panel data.
- Remarks on time comparability in cross section data

Reading:

1. Alkire S., J. E. Foster, S. Seth, S. Santos, J. M. Roche, P. Ballon, Multidimensional Poverty Measurement and Analysis, Oxford University Press, forthcoming, (Chap. 9).

Further reading:

1. APABLAZA, M. and G. YALONETZKY (2011). Measuring the dynamics of multiple deprivations among children: the cases of Andhra Pradesh, Ethiopia, Peru, and Vietnam. OPHI Working Paper 26a
2. APABLAZA, M., J.P OCAMPO and G. YALONETZKY, (2010). 'Decomposing Changes in Multidimensional Poverty in 10 Countries', mimeo, Oxford Poverty and Human Development Initiative, Oxford Department of International Development, University of Oxford
3. FOSTER, J.E. (2009). A class of chronic poverty measures. In: Addison A, Hulme D, Kanbur R (eds) Poverty Dynamics: Towards Inter-disciplinary Approaches. Oxford University Press, Oxford.
4. FOSTER, J.E. and M.E. SANTOS (2012). Measuring Chronic Poverty. OPHI Working Paper.
5. BOSSERT, W., S. CHAKRAVARTY, and C. D'AMBROSIO. (2010). Poverty and Time. Working Papers with number wp2010-74. World Institute for Development Economic Research (UNU-WIDER)
6. BOUILLON, C. and P. YANEZ-PAGANS (2011). Dynamic Consistency of Multidimensional and Income Targeting: An Application for Mexico Using Panel Data Information. RES Working Papers. Inter-American Development Bank, Research Department.
7. CALVO, C and S. DERCON (2007). Chronic poverty and all that: the measurement of poverty over time. University of Oxford.
8. CARTER, M.R. and C.B. BARRETT (2006) The economics of poverty traps and persistent poverty: an asset-based approach. Journal of Development Studies, 42(2): 178-99.
9. HULME, D. and A. MCKAY (2005). Identifying and measuring chronic poverty: beyond monetary measures. Chronic Poverty Research Centre Working Paper No 30.
10. RAY, N.A. (2011). Duration and persistence in multidimensional deprivation: methodology and Australian application. Economic Record 88, 280, 106-126.

Topic: Interpreting the MPI Results

Session: Tuesday 19 August, 15:30-17:30

Instructors: Mauricio Apablaza and Adriana Conconi

Contents:

- Analysis and Interpretation of aggregated results (M0, H, A)
- Comparing the MPI to other measures of welfare or poverty
- Analysis and Interpretation of results by subgroup
- Analysis and Interpretation of dimensional results (Raw and Censored Headcounts Ratios)

Reading List:

1. Alkire, S., Santos, M.E.: Acute multidimensional poverty: a new index for developing countries. OPHI working paper series, 38 (2010)
2. Alkire, S.: Multidimensional poverty and its discontents. (OPHI working paper series, 44) (2011)
3. Alkire, Sabina, and James Foster. "Understandings and misunderstandings of multidimensional poverty measurement." *The Journal of Economic Inequality* 9.2 (2011): 289-314.

Further readings:

1. Battiston, D., Cruces, G., et al. (2009). Income and beyond: Multidimensional poverty in six Latin American countries. *OPHI Working Paper 17*, University of Oxford.
2. Dynamic Comparison between Multidimensional Poverty and Monetary Poverty, Research workshop, 21-22 November 2012, Oxford Department of International Development, Oxford 2012.
<http://www.ophi.org.uk/workshop-on-monetary-and-multidimensional-poverty-measures/>
3. Ravallion, Martin. "On multidimensional indices of poverty." *The Journal of Economic Inequality* 9.2 (2011): 235-248.

Topic: Inequality Among the Poor

Session: Wednesday 20 August, 09:00-10:30

Instructor: Suman Seth

Contents:

- An inequality sensitive poverty index or a separate inequality measure?
- Which Inequality measure?
- Capturing inequality across the Poor
- Capturing disparity in poverty across population subgroups

Reading:

1. Alkire S., J. E. Foster, S. Seth, S. Santos, J. M. Roche, P. Ballon, Multidimensional Poverty Measurement and Analysis, Oxford University Press, forthcoming, (Chap. 9).

Further reading:

1. ALKIRE, S. and S. SETH (2013), Analysis of Inequality across the Multi-dimensionally Poor and across Population Subgroups for Counting Approaches, Oxford Poverty and Human Development Initiative, Work in Progress.
2. ALKIRE, S., J. M. ROCHE, and S. SETH (2011) "Sub-national Disparities and Inter-temporal Evolution of Multidimensional Poverty across Developing Countries", Research in Progress 32a, Oxford Poverty and Human Development Initiative, University of Oxford. Available at: <http://www.ophi.org.uk/wp-content/uploads/OPHI-RP-32a-2011.pdf>.
3. KOLM, S. C. (1976), "Unequal inequalities I", Journal of Economic Theory, 12(3), 416-42.
4. STEWART, F. (2000), "Crisis prevention: tackling horizontal inequalities". Oxford Development Studies, 28(3), 245-262.

Topic: Regression Analysis

<p>Session: Wednesday 20 August, 11:00-12:30</p> <p>Instructors: Bouba Housseini and Sabina Alkire</p>
<p>Contents:</p> <ul style="list-style-type: none">● Introduction to Generalised linear models.● Regression models for Indicators of deprivation: Poisson models for count data.● Regression models for MPI by district: Linear regression● Introduction to Structural Equation Modelling: MIMIC models for Female empowerment
<p>Reading:</p> <ol style="list-style-type: none">1. Alkire S., J. E. Foster, S. Seth, S. Santos, J. M. Roche, P. Ballon, Multidimensional Poverty Measurement and Analysis, Oxford University Press, forthcoming, (Chap. 10). <p>Further reading:</p> <ol style="list-style-type: none">1. BALLON, P. (2011). A Structural Model for Female Empowerment. PhD dissertation. Mimeo, University of Geneva, Switzerland., 2011.2. BOLLEN, K. A. (1989). Structural Equations with Latent Variables. Wiley Series in Probability and Mathematical Statistics. New York3. CAMERON A.C. and P.K. TRIVEDI (2005). Microeconometrics: Methods and Applications. Cambridge University Press, Cambridge.4. DI TOMMASO, M. L. (2007) "Children capabilities: A structural equation model for India". The Journal of Socio-Economics, 36, 436-450.5. KRISHNAKUMAR, J. & P. BALLON (2008). "Estimating Basic Capabilities: A Structural Equation Model Applied to Bolivia". World Development Vol 36 (6) pages 992-110.6. KUKLYS, W. (2005) Amartya Sen's Capability Approach: Theoretical Insights and Empirical Applications, Berlin, Springer.

Topic: Clarifying Concepts and Communicating your Results

<p>Session: Wednesday 20 August, 13:30-15:00</p> <p>Instructors: Sabina Alkire/John Hammock/Mauricio Apablaza</p>
<p>Contents:</p> <ul style="list-style-type: none">● Clarifying the different concepts used in multidimensional poverty analysis● Communicating your multidimensional poverty measure● OPHI's experience in communicating the global MPI● General communication advice.
<p>Reading List:</p>
<p>Further readings:</p>

Topic: Targeting & Impact Evaluation

<p>Session: Thursday 21 August, 09:00-10:30 Instructor: Sabina Alkire and Ana Vaz</p>
<p>Contents:</p> <ul style="list-style-type: none">● Methods of MPI poor targeting and applications● Impact evaluation and multidimensional poverty
<p>Reading List:</p> <ol style="list-style-type: none">1. ALKIRE, S. and S. SETH (2013), "Selecting a Targeting Method to Identify BPL Households in India". Social Indicators Research, Volume 112, Issue 2, pp 417-446.2. Robano, V. & Smith, S. C. (2014) Multidimensional targeting and evaluation: A general framework with an application to a poverty program in Bangladesh. OPHI Working Paper 65. Available at: http://www.ophi.org.uk/multidimensional-targeting-and-evaluation-a-general-framework-with-an-application-to-a-poverty-program-in-bangladesh/3. AZEVEDO, V. and M. ROBLES (2013), "Multidimensional Targeting: Identifying Beneficiaries of Conditional Cash Transfer Programs". Social Indicators Research, Volume 112, Issue 2, pp 447–475.

Topic: Institutions and Policy

<p>Session: Thursday 21 August, 11:00-12:30 Instructor: John Hammock and Mauricio Apablaza</p>
<p>Contents:</p> <ul style="list-style-type: none">● Practical and policy considerations in implementing multidimensional poverty measures● Political purposes – users and incentives created● Process of developing a measure – how it will be used? Who will have interest in using it?● How measures will be updated? What institutions will be involved?
<p>Reading List:</p>
<p>Further readings:</p>

Topic: Missing Dimensions of Household Surveys on Poverty

Session: Thursday 21 August, 13:30-15:00

Instructor: Sabina Alkire

Contents:

- Informational Analysis of moral principles
- Review – the choice of dimensions
- The problem of ‘missing data’
- Four survey instruments producing most MDG-type data
- Various search engines and initiatives to improve data
- Characteristics of internationally comparable data
- OPHI’s Missing Dimensions: Employment, Empowerment, Safety from Violence, Ability to go about without Shame, Psychological and Subjective well-being.

Reading List:

1. ALKIRE, S. (2007), "The Missing Dimensions of Poverty Data: Introduction to the Special Issue." *Oxford Development Studies* 35:347-359.
2. ALKIRE, S. (2009) The MDGs: Multidimensionality and Interconnection. *Background paper for DFID White Paper*. <http://ophi.org.uk/pubs/RP-Alkire%20OPHI-DFID%20Background%20Paper.pdf> Please see section 2.

Further readings:

1. DIPROSE, R. (2007), "Physical Safety and Security: A Proposal for Internationally Comparable Indicators of Violence." *Oxford Development Studies* 35:431-458.
2. GROVES, R. M., F. J. FOWLER, M. P. COUPER, J. M. LEPKOWSKI, E. SINGTER and R. TOURANGEAU (2004) *Survey methodology*, Hoboken, NJ, J. Wiley. (Chapter Eight: Evaluating Survey Questions)
3. IBRAHIM, S., and S. ALKIRE (2007), "Agency and Empowerment: A Proposal for Internationally Comparable Indicators." *Oxford Development Studies* 35:379-403.
4. LUGO, M. A.(2007), "Employment: A Proposal for Internationally Comparable Indicators." *Oxford Development Studies* 35:361-378.
5. NARAYAN, D, CHAMBERS, R., SHAH, M.K. and P. PETESCH (2000), *Voices of the poor: Crying out for change*. New York: Oxford University Press for the World Bank
6. RANIS, G., F. STEWART, and E SAMMAN. (2006). "Human Development: Beyond the Human Development Index." *Journal of Human Development* 7(3): 323-358.
7. SAMMAN, E. (2007), "Psychological and Subjective Well-being: A Proposal for Internationally Comparable Indicators." *Oxford Development Studies* 35:459-486.
8. ZAVALETA, D. (2007), "The ability to go about without shame: a proposal for international comparable indicators on shame and humiliation." *Oxford Development Studies*.

Topic: Review of the Course & Closure

<p>Session: Thursday 21 August, 15:30-17:30 Instructor: Sabina Alkire</p>
<p>Contents:</p> <ul style="list-style-type: none">● Recapping key lessons and topics covered during the course● General advice and next steps.
<p>Reading List:</p>
<p>Further readings:</p>

Topic: Non-Compulsory Exam

<p>Session: Saturday 23 August 09:00-11:00 Instructors: Gisela Robles A., Bouba Housseini and Mihika Chatterjee</p>
<p>Contents:</p> <ul style="list-style-type: none">● The whole of the course.