

PROGRAMME – WEEK 1

Day 1: Monday 12 Aug	Day 2: Tuesday 13 Aug	Day 3: Wednesday 14 Aug	Day 4: Thursday 15 Aug	Day 5: Friday 16 Aug	Day 6: Saturday 17 Aug
0900-1015	0900-0930	0930-1100	0930-1100	0930-1100	0930-1100
Opening session: Introduction & Overview of SS19	A warm up to the Alkire Foster (AF) Methodology Chapter 5	Paper-based Exercise on AF Methodology	STATA: Descriptive Statistics & Exploring the Dataset	Measures of Association & Redundancy Chapter 7 & Stata V2	Working groups: Finalise PPTs
1015-1100	0930-1100				
Opening Lecture: CONVAL	Alkire Foster (AF) Methodology				
1130-1300	1130-1300	1130-1300	1130-1300	1130-1300	1130-1300
Multidimensional (MD) Poverty Measures: Motivations & Properties Chapter 1 & 2	Introduction to the Capability Approach Chapter 6	Data & Indicators Chapter 7	STATA: Creating Deprivation Matrix Stata V1	Working groups	Working Groups' Presentations
1400-1530	1400-1515	1400-1515	1400-1530	1400-1500	
Unidimensional Poverty Measures Chapter 2	Global MPI	National MPIs	Working groups: Creating your first MPI	Reviewing the mid- term exam	
	1515-1530	1515-1530		1500-1530	
	Take home: Paper- based Exercise on AF Methodology	Take home: Mid-term exam		Working groups	
1600-1730	1600-1730	1600-1730	1600-1730	1600-1730	
MD Poverty Methods & Counting Approaches Chapter 3 & 4	Normative Issues in MD Poverty Measurement Design Chapter 6	Working groups: Normative Issues My first MPI	Working groups: Creating your first MPI	Working groups	

PROGRAMME – WEEK 2

Day 7: Monday 19 Aug	Day 8: Tuesday 20 Aug	Day 9: Wednesday 21 Aug	Day 10: Thursday 22 Aug	Day 11: Friday 23 Aug	Day 12: Saturday 24 Aug
0930-1100	0930-1100	0930-1100 Academic option	0930-1100 Academic option	0900-1100 (Room 1)	0930-1100
STATA: Aggregation of MPI	Changes over Time Chapter 9	Regression Analysis for Multidimensional Poverty Chapter 10	Impact Evaluations Using a Multidimensional Framework	Working Groups' Final Presentations	Non Compulsory Exam
		0930-1100 Policy option	0930-1100 Policy option	0900-1100 (Room 2)	
		Interpreting & Communicating the MPI Results for Policy Makers	Child MPI	Working Groups' Final Presentations	
1130-1300	1130-1300	1130-1300	1130-1230	1130-1300	
STATA: Decomposition, Maps & Dimensional Breakdown	Working groups	Working groups	Special lecture	Working Groups' Final Presentations	
			1230-1300 Summer School 2019 online evaluation		
1400-1530	1400-1530	1400-1530	1430-1530	1400-1530	
Robustness Analysis Chapter 8	Working groups	Working groups	Working groups	Closing session: review of the course & awarding certificates	
1600-1730	1600-1730	1600-1730	1500-1730		
Working groups	Special Panel: MPI Handbook	Working groups	Working groups		

SYLLABUS

Monday 12 August

Day 1-Session 1 (Monday 12 August, 09:00-10:15)

Topic: Introduction & Overview of the Summer School

Chair: Usha Kanagaratnam & Ricardo Nogales

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
- Logistics information

Pre-Summer School Reading List:

1. Alkire S., J. E. Foster, S. Seth, M.E. Santos, J. M. Roche, P. Ballon, Multidimensional Poverty Measurement and Analysis, Oxford University Press.
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.
3. Alkire, S. and J. Foster (2009), "Counting and Multidimensional Poverty" in von Braun, Joachim, Vargas Hill, Ruth and Rajul Pandya-Lorcheds, The Poorest and Hungry: Assessment, Analysis and Actions, p 77-90. Washington DC: International Food Policy Research Institute.

Day 1-Session 2 (Monday 12 August, 11:30-13:00)

Topic: Multidimensional (MD) Poverty Measures: Motivation and Properties

Instructor: Sabina Alkire

Contents:

- Conceptual and philosophical arguments for multidimensional poverty measures
- Empirical evidence of unidimensional versus multidimensional poverty
- Examples of interest in multidimensional poverty measures among national governments

Reading:

1. Alkire S., J. E. Foster, S. Seth, M.E. Santos, J. M. Roche, P. Ballon, (2015), Multidimensional Poverty Measurement and Analysis, Oxford University Press (Chap. 1 & 2).

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.
2. Alkire, S. and M. E. Santos (2010), "Acute Multidimensional Poverty: A new Index for Developing Countries", [OPHI WP 38](#).
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. [Bhutan's Gross National Happiness Index](#)
6. [Colombia's National Poverty Measure](#).
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.

Day 1-Session 3 (Monday 12 August, 14:00-15:30)

Topic: Unidimensional Poverty Measures
Instructor: James Foster

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:

1. Alkire S., J. E. Foster, S. Seth, M.E. Santos, J. M. Roche, P. Ballon, (2015), Multidimensional Poverty Measurement and Analysis, Oxford University Press, forthcoming, (Chap. 2.1).
2. 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](#).
3. Foster J. E. and A. K. Sen (1997), Annexe of "On Economic Inequality", Oxford University Press.
4. 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 reading:

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.

Day1-Session 4 (Monday 12 August, 16:00-17:30)

Topic: Multidimensional Poverty Methods and Counting Approaches
Instructor: Sabina Alkire

Contents:

- The counting approach as a method for identifying the poor
- Salient implementations of the counting approach to measure of poverty over time and their use as policy tool

Reading:

1. Alkire S., J. E. Foster, S. Seth, M.E. Santos, J. M. Roche, P. Ballon, (2015), Multidimensional Poverty Measurement and Analysis, Oxford University Press(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.

Tuesday 13 August**Day 2-Briefing session** (Tuesday 13 August, 09:00-09:30)**Topic:** A warm up to the Alkire-Foster (AF) Methodology**Instructor:** Christian Oldiges**Day 2-Session 1** (Tuesday 13 August, 09:30-11:00)**Topic:** Alkire-Foster (AF) Methodology**Instructor:** James Foster**Contents:**

- Key literature on multidimensional poverty measures
- The identification and aggregation steps
- The importance of joint distribution versus marginal distribution

Reading:

1. Alkire S., J. E. Foster, S. Seth, M.E. Santos, J. M. Roche, P. Ballon, (2015), *Multidimensional Poverty Measurement and Analysis*, Oxford University Press (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](#)"
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 Reach in Progress Paper 25.

Day 2-Session 2 (Tuesday 13 August, 11:30-13:00)

Topic: Introduction to the Capability Approach (CA)

Instructor: Sabina Alkire

Contents:

- History and motivation of the capability approach
- Capabilities
- Functionings
- Agency
- Implications for economics
- Issues for measurement

Reading:

1. Alkire, S., J. E. Foster, S. Seth, M.E. Santos, J. M. Roche, P. Ballon, (2015), Multidimensional Poverty Measurement and Analysis, Oxford University Press (Chap. 6).

Further reading:

1. Alkire, S. (2005) [Capabilities and Functionings: Definition and Justification](#).
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.
3. Sen, A. (1989), "Development as Capability Expansion" In S. Fukud-Parr and A.K. Shiva Kumar, Readings in Human Development, Oxford University Press (2003).
4. Sen, A. (1999), Development as Freedom, Oxford University Press. Chapters 1-3.

Day 2-Session 3 (Tuesday 13 August, 14:00-15:15)

Topic: Case Study: Global MPI

Instructor: Usha Kanagaratnam

Contents:

- An introduction to the [Global MPI](#) – one possible implementation of one measure in the AF class of measures

Day 2-Briefing session (Tuesday 13 August, 15:15-15:30)

Topic: Take Home: Paper-based Exercise on AF Method

Instructor: Corinne Mitchell

Day 2-Session 4 (Tuesday 13 August, 16:00-17:30)

Topic: Normative Issues in Multidimensional Poverty Measurement Design

Instructors: 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 and aggregate measures

Reading:

1. Alkire S., J. E. Foster, S. Seth, M.E. Santos, J. M. Roche, P. Ballon, (2015), Multidimensional Poverty Measurement and Analysis, Oxford University Press (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.
2. Alkire, S. (2002), “Dimensions of Human Development” World Development 30: 181-205.
3. Alkire, S. (2007), “Choosing Dimensions: The Capability Approach and Multidimensional Poverty
4. Decancq, K. and M. A. Lugo (2008), “[Setting Weights in Multidimensional Indices of Well-being](#)”.
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, **¡Error! Referencia de hipervínculo no válida.**

Wednesday 14 August

Day 3 – Session 1 (Wednesday 14 August, 09:30-11:00)
Topic: Solution: Paper-based Exercise on AF Methodology Instructor: Corinne Mitchell
Day 3 – Session 2 (Wednesday 14 August, 11:30-13:00)
Topic: Data and Indicators Instructors: Usha Kanagaratnam
Contents: <ul style="list-style-type: none"> • An overview of common data issues related to the use of household surveys for multidimensional poverty measurement
Reading: <ol style="list-style-type: none"> 1. Alkire S., J. E. Foster, S. Seth, M.E. Santos, J. M. Roche, P. Ballon, (2015), Multidimensional Poverty Measurement and Analysis, Oxford University Press (Chap. 7).
Further reading: <ol style="list-style-type: none"> 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. (2005). “Sampling Error Estimation for Survey Data”, in Household Sample Surveys in Developing and Transition Countries, New York: United Nation Publication. 3. ICF International. (2012). “Demographic and Health Survey Sampling and Household Listing Manual”. MEASURE DHS, Calverton, Maryland, U.S.A.: ICF International 4. United Nations Children Fund. (2015). “Monitoring the Situation of Children and Women for 20 Years: The Multiple Indicator Cluster Surveys (MICS) 1995–2015”. UNICEF: New York. 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. (2005) “Non-observation Error in Household Surveys in Developing Countries”, in Household Sample Surveys in Developing and Transition Countries, New York: United Nation Publication.
Day 3 – Session 3 (Wednesday 14 August, 14:00-15:15)

<p>Topic: National Multidimensional Poverty Measures Instructors: Christian Oldiges</p>
<p>Contents:</p> <ul style="list-style-type: none"> • An overview of national AF measures
<p>Reading:</p> <ol style="list-style-type: none"> 1. Hernadez-Licona, G. (2014) "Multidimensional Poverty Measurement: The Mexican Wave", Mexico: National Council for the Evaluation of Social Development Policy (CONEVAL). 2. Mac Master, B (2013) "Multidimensional Poverty Index Applications - Colombia", Bogota: Department of Social Prosperity, June. 3. National Statistics Bureau of Bhutan (2014) "Bhutan Multidimensional Poverty Index", Thimphu: NSB 4. Hanandita, W., & Tampubolon, G. (2015). Multidimensional poverty in Indonesia: trend over the last decade (2003–2013). Social Indicators Research, 1-29.
<p>Day 3 – Brief session (Thursday 14 August, 15:15-15:30)</p>
<p>Topic: Take Home: Mid-term Exam Instructor: Corinne Mitchell</p>
<p>Exam questions will be focused on:</p> <ul style="list-style-type: none"> • Why multidimensional (MD) poverty measures? • Unidimensional poverty measurement • Properties of unidimensional and MD poverty • Alkire-Foster (AF) methodology • Introduction to capability approach • Normative issues in MD poverty measurement • Global Multidimensional Poverty Index (MPI)
<p>Day 3 – Session 4 (Wednesday 14 August, 16:00-17:30)</p>
<p>Topic: Working Groups: Normative Issues Instructors: OPHI Academic Team</p>

Thursday 15 August

<p>Day 4 – Session 1 (Thursday 15 August, 09:30-11:00)</p>
<p>Topic: Stata: Descriptive Statistics and Exploring the Data Set Instructor: Frank Vollmer</p>
<p>Contents:</p> <ul style="list-style-type: none"> • Review of Stata • Descriptive statistics (categorical and continuous variables) • Generating variables using loops • Stata .do file steps following the AF method
<p>Reading List:</p> <ol style="list-style-type: none"> 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.

<p>Useful resource:</p> <ol style="list-style-type: none"> 1. General help can be found at http://www.stata.com/links/resources-for-learning-statahttp://www.stata.com/links/resources-for-learning-stata. 2. Prof. Cameron's webpage at the University of Davis.
<p>Day 4 – Session 2 (Thursday 15 August, 11:30-13:00)</p>
<p>Topic: Stata: Creating the Deprivation Matrix Instructor: Adriana Conconi</p>
<p>Day 4 – Session 3 (Thursday 15 August, 14:00-15:30)</p>
<p>Topic: Working Groups: Creating your first MPI Instructors: OPHI Academic Team</p>
<p>Day 4 – Session 4 (Thursday 15 August, 16:00-17:30)</p>
<p>Topic: Working Groups: Creating your first MPI Instructors: OPHI Academic Team</p>

Friday 16 August

<p>Day 5 – Session 1 (Friday 16 August, 09:30-11:00)</p>
<p>Topic: Measures of Association and Redundancy Instructor: Monica Pinilla-Roncancio</p>
<p>Contents:</p> <ul style="list-style-type: none"> • 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
<p>Reading:</p> <ol style="list-style-type: none"> 1. Alkire S., J. E. Foster, S. Seth, M.E. Santos, J. M. Roche, P. Ballon, (2015), Multidimensional Poverty Measurement and Analysis, Oxford University Press (Chap. 7). <p>Further reading:</p> <ol style="list-style-type: none"> 1. Agresti, A. (1990) Categorical Data Analysis, New York, NY; Toronto: John Wiley & Sons. Chapter 2. 2. Agresti, A. (1984). Analysis of Ordinal Categorical Data, New York, NY; Toronto: John Wiley & Sons.
<p>Day 5 – Session 2 (Friday 16 August, 11:30-13:00)</p>
<p>Topic: Working Groups: Creating your first MPI Instructors: OPHI Academic Team</p>
<p>Day 5 – Session 3 (Friday 16 August, 14:00-15:00)</p>
<p>Topic: Reviewing the Mid-term Exam</p>

Instructor: Corinne Mitchell
Day 5 – Session 4 (Friday 16 August, 16:00-17:30)
Topic: Working Groups: Creating your first MPI Instructors: OPHI Academic Team

Saturday 17 August

Day 6 – Session 1 (Saturday 17 August, 09:30-11:00)
Topic: Working Groups: Finalise Presentations Instructors: OPHI Academic Team
Day 6 – Session 2 (Saturday 17 August, 11:30-13:00)
Topic: Working Groups: Presentations Panel: OPHI Academic Team

Monday 19 August

Day 7 – Session 1 (Monday 19 August, 09:30-11:00)
Topic: Stata: Aggregation of MPI Instructor: Adriana Conconi
Day 7 – Session 2 (Monday 19 August, 11:30-13:00)
Topic: Stata: Decomposition, Maps and Dimensional Breakdown Instructor: Christian Oldiges
Contents: <ul style="list-style-type: none"> ● Decompositions by population subgroups ● Break-down by dimension ● Analysis of trends in AF Measure
Reading List: <ol style="list-style-type: none"> 1. Alkire, S. and J.M. Roche (2013), “How Multidimensional Poverty Went Down: Dynamics and Comparison”, OPHI Research briefing. 2. Alkire, S. and M.E. Santos (2010), “Acute Multidimensional Poverty: A New Index for Developing Countries”, OPHI WP 38. 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. Batana, Y. (2008), “Multidimensional Measurement of Poverty in Sub-Saharan Africa”, OPHI WP. No 13. 6. Bennett, C. and S. Singh, (2010), “Multidimensional poverty: Measurement, Estimation and Inference”, manuscript.

7. Roche, J.M. (2013), "Monitoring Progress in Child Poverty Reduction: Methodological Insights and Illustration to the Case Study of Bangladesh", *Social Indicators Research*, Vol. 112, Issue 2, pp 363-390.
8. Santos, M.E. and Ura, K. (2008), "Multidimensional Poverty in Bhutan: Estimates and Policy Implications", OPHI WP. 14
9. 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.

Day 7 – Session 3 (Monday 19 August, 14:00-15:30)

Topic: Robustness Analysis

Instructors: Ricardo Nogales

Contents:

- 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
- Robustness using pairwise comparisons

Reading:

1. Alkire S., J. E. Foster, S. Seth, M.E. Santos, J. M. Roche, P. Ballon, (2015), *Multidimensional Poverty Measurement and Analysis*, Oxford University Press (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., M.E. 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., Sahin, 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). <http://www.restore.ac.uk/Longitudinal/surveynetwork/documents/PragueCourseNotesPLv3.pdf>
7. Yalonetzky, G (2011), *Conditions for the Most Robust Poverty Comparisons Using the AlkireFoster Family of Measures*. OPHI Working Paper 44b.
8. Yalonetzky, Gaston (2009), "Testing for Stochastic Dominance among Additive, Multivariate Welfare Functions", manuscript.
9. Anderson, G. (1996), 'Nonparametric Tests of Stochastic Dominance in Income Distributions', *Econometrica*, 64(5): 1183-1193.
10. 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.
11. Davidson, R. and J. Duclos, (2000), "Statistical Inference for Stochastic Dominance and for the Measurement of Poverty and Inequality", *Econometrica*, 68(6): 1435-65.
12. Duclos, J-Y., Sahn, D and S. Younger (2006), "Robust Multidimensional Poverty Comparisons with Discrete Indicators of Well-being", *CIRPEE Working Paper*, 06-28.

Day 7 – Session 4 (Monday 19 August, 16:00-17:30)

Topic: Working Groups

Instructors: OPHI Academic Team

Tuesday 20 August

Day 8 –Session 1 (Tuesday 20 August, 09:30-11:00)

Topic: Changes Over Time

Instructor: Monica Pinilla-Roncancio

Contents:

- Analysis of changes in multidimensional poverty
- Empirical examples
- Remarks on decomposition of changes using cross-sectional data

Reading:

1. Alkire S., J. E. Foster, S. Seth, M.E. Santos, J. M. Roche, P. Ballon, (2015), *Multidimensional Poverty Measurement and Analysis*, Oxford University Press (Chapter 9).

Further reading:

2. Alkire, S., Roche, J. M., & Vaz, A. (2017). Changes over time in multidimensional poverty: Methodology and results for 34 countries. *World Development*, 94, 232-249.
3. 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
4. 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
5. 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.
6. Foster, J.E. and M.E. Santos (2012). *Measuring Chronic Poverty*. OPHI Working Paper.
7. Bossert, W., S. Chakravarty, and C. D’Ambrosio. (2010). *Poverty and Time*. Working Papers wp2010-74. World Institute for Development Economic Research (UNU-WIDER)
8. 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.
9. Calvo, C and S. Dercon (2007). *Chronic Poverty and All that: The Measurement of Poverty Over Time*. University of Oxford.
10. 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.
11. Hulme, D. and A. McKay (2005). *Identifying and Measuring Chronic Poverty: Beyond Monetary Measures*. Chronic Poverty Research Centre Working Paper No 30.
12. Ray, N.A. (2011). *Duration and Persistence in Multidimensional Deprivation: Methodology and Australian Application*. *Economic Record* 88, 280, 106-126.
13. Suppa, N. (2018). *Transitions in poverty and its deprivations*. *Social Choice and Welfare*, 1-24.
14. Instituto Nacional de Estadística (INEC). (2015). *Medición de la Pobreza Multidimensional en Ecuador*. Retrieved from Quito, Ecuador.
15. Instituto Nacional de Estadística y Censos (INEC). (2015). *Índice de Pobreza Multidimensional (IPM): Metodología*. Retrieved from San Jose Costa Rica.

16. Ministry of Planning, D. R., United Nations (UN) Pakistan, & Oxford Poverty and Human Development Initiative (OPHI). (2016). Multidimensional Poverty in Pakistan. Retrieved from Balochistan

Day 8 – Session 2 (Tuesday 20 August, 11:30-13:00)

Topic: Working Groups

Instructors: OPHI Academic Team

Day 8 – Session 3 (Tuesday 20 August, 14:00-15:30)

Topic: Working Groups

Instructors: OPHI Academic Team

Day 8 – Session 4 (Tuesday 20 August, 16:00-17:30)

Topic: Special Panel: MPI Handbook

Chair: Corinne Mitchell

Contents:

- Download handbook [online](#) for free

Wednesday 21 August

Day 9 – Parallel Session 1A (Wednesday 21 August, 09:30-11:00)

Topic: Regression Analysis for Multidimensional Poverty

Instructor: Ricardo Nogales

Contents:

- General introduction to econometric modelling
- Introduction to Generalised Linear Models (GLMs)
- Possible extensions of econometric models as analytical tools
- Some illustrations
- Potential issues and ways forward

Reading:

1. Alkire S., J. E. Foster, S. Seth, M.E. Santos, J. M. Roche, P. Ballon (2015). *Multidimensional Poverty Measurement and Analysis*. Oxford University Press (Chapter 10).

Further reading:

1. Cameron AC. & Trivedi PK. (2005). *Microeconometrics: Methods and Applications*. Cambridge University Press, Cambridge.
2. Krishnakumar J. & Nogales R. (2018) “Demystifying the use of Simultaneous Equation Models for operationalising the capability approach.” In *New Frontiers of the Capability Approach* (Eds. Comim F., Fennell S. & Anand PB.). Cambridge University Press, Cambridge.
3. Krishnakumar J. & Ballon P. (2008). “Estimating basic capabilities: A structural equation model applied to Bolivia”. *World Development*, 36 (6): 992-110.
4. Santos M. E., Dabus C. & Delbianco F. (2017) “Growth and poverty revisited from a multidimensional perspective.” *The Journal of Development Studies*: 1-18

Day 9 – Parallel Session 1B (Wednesday 21 August, 09:30-11:00)

<p>Topic: Interpreting and Communicating the MPI Results for Policy Makers Instructor: Adriana Conconi</p>
<p>Contents:</p> <ul style="list-style-type: none"> • Revision on how to interpret MPI figures • Useful disaggregations for a powerful message
<p>Day 9 – Session 2 (Wednesday 21 August, 11:30-13:00)</p>
<p>Topic: Working Groups Instructors: OPHI Academic Team</p>
<p>Day 9 – Session 3 (Wednesday 21 August, 14:00-15:30)</p>
<p>Topic: Working Groups Instructors: OPHI Academic Team</p>
<p>Day 9 – Session 4 (Wednesday 21 August, 16:00-17:30)</p>
<p>Topic: Working Groups Instructors: OPHI Academic Team</p>

Thursday 22 August

<p>Day 10 – Parallel Session 1A (Thursday 22 August, 09:30-11:00)</p>
<p>Topic: Impact Evaluation Using a Multidimensional Framework Instructor: Ricardo Nogales</p>
<p>Contents:</p> <ul style="list-style-type: none"> • Discuss how AF measures can be used in impact evaluation • An empirical application
<p>Reading:</p> <ol style="list-style-type: none"> 1. 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. <p>Further reading:</p> <ul style="list-style-type: none"> • Gertler, P. J., S. Martinez, P. Premand, L. B. Rawlings and C. M. J. Vermeersch (2016). Impact Evaluation in Practice, Second Edition. The World Bank, Washington, DC. • Khandker, S., G. B. Koolwal and H. A. Samad (2010). Handbook on Impact Evaluation – Quantitative Methods and Practices. The World Bank, Washington. DC. • Loschmann C., C. R. Parsons and M. Siegel (2015) “Does Shelter Assistance Reduce Poverty in Afghanistan?” World Development, 74, 305-322. • Vaz, A., Malaeb, B. & Quinn, N. (forthcoming) “A Multidimensional Impact Evaluation: An Empirical Application to Progresá in Mexico”. OPHI Working Paper.
<p>Day 10 – Parallel Session 1B (Thursday 22 August, 09:30-11:00)</p>
<p>Topic: Child Poverty Measure Instructor: Christian Oldiges</p>
<p>Day 10 – Session 2 (Thursday 22 August, 11:30-12:30)</p>

<p>Topic: Special lecture Instructors: TBC</p>
<p>Day 10 – Briefing session (Thursday 22 August, 12:30-13:00)</p>
<p>Topic: Summer School 2019 online evaluation Instructors: Usha Kanagaratnam & Ricardo Nogales</p>
<p>Day 9 – Session 3 (Thursday 22 August, 14:00-15:30)</p>
<p>Topic: Working Groups Instructors: OPHI Academic Team</p>
<p>Day 9 – Session 4 (Thursday 22 August, 16:00-17:30)</p>
<p>Topic: Working Groups Instructors: OPHI Academic Team</p>

Friday 23 August

<p>Day 11 – Parallel Session 1A: (Friday 23 August, 09:00-11:00)</p>
<p>Topic: Working Groups: Final Presentations Panel: OPHI Academic Team</p>
<p>Day 11 – Parallel Session 1B: (Friday 23 August, 09:00-11:00)</p>
<p>Topic: Working Groups: Final Presentations Panel: OPHI Academic Team</p>
<p>Day 11 – Session 2: (Friday 23 August, 11:30-13:00)</p>
<p>Topic: Working Groups: Final Presentations Panel: OPHI Academic Team</p>
<p>Day 11 – Session 3: (Friday 23 August, 14:00-15:30)</p>
<p>Topic: Closing Session, Review of the Course and Awarding of Certificates</p> <ul style="list-style-type: none"> ● Recapping key lessons and topics covered during the course ● General advice and next steps ● Awarding of certificates

Saturday 24 August

<p>Day 12 – Session 1 (Saturday 24 August, 09:30-11:00)</p>
<p>Topic: Non-compulsory Exam Instructor: Usha Kanagaratnam & Ricardo Nogales</p>
<p>Contents:</p> <ul style="list-style-type: none"> ● Evaluation on the contents of Summer School