

## **Dr.Aloyce S. Hepelwa**

### **1. Personal data**

- 1.1 Full Name: AloyceShabanHepelwa
- 1.2 Address: University of Dar es Salaam  
P.O. Box 35045, Dar es Salaam  
Tel.+255 755 562141  
Cell phone: +255 713 552384  
Email: [ahapelwa@yahoo.com](mailto:ahapelwa@yahoo.com)  
[ahapelwa@udsm.ac.tz](mailto:ahapelwa@udsm.ac.tz)

- 1.3 Date of Birth: September 12, 1969
- 1.4 Place of Birth: Iringa, Tanzania
- 1.5 Nationality: Tanzanian
- 1.6 Marital status: Married with 2 children
- 1.7 Position: Lecturer
- 1.8 Language: English and Swahili

### **2. Professional interest**

Environmental and Natural Resource Economics, Econometrics, Integrated Assessment of the Natural Resources, Livelihoods and Welfare Development. Environmental and Natural Resource Valuation and Modeling.Efficiency Use of Natural Resources and the Sustainable Development indicators.Impact evaluation Methods- statistical (propensity score matching, Difference in indifference and experiment based method – Radomized Contral trials-RCTs).

### **3. Education Background**

- 3.1 PhD - Vrije University Brussels (VUB), Belgium, 2007 – 2011
- 3.2 M.A – Makerere University (MUK), Uganda, 2000 – 2002
- 3.3 B. A – University of Dar es Salaam, Tanzania, 1994 – 1997
- 3.4 ACSE – MazengoSeconadry School, Dodoma, 1990 - 1992
- 3.5 CSE – Songea Boys Secondary School, Ruvuma, 1986 - 1999

### **4 Employment history**

- 4.1 Senior Lecturer and Head, Dept of Agricultural Economics and Business, 2015 to date
- 4.2 Lecturer, Department of Economics, UDSM, 2011 to June 2015
- 4.3 Assistant Lecturer, Department of Economics, UDSM, 2009 – 2011
- 4.4 Assistant ReserachFellow, Economic Research Bureau, UDSM, 2005 – 2009
- 4.5 Public Debt analyst, Ministry of Finance, 1998 – 2004
- 4.6 Research Assistant, The Economic and Social Research Foundation(ESRF), 1997 – 1998

### **5 OTHER RELLEVANT TRAININGS ATTENDED**

- 5.1 Randomized Control Trials (RCTs); The Abdul LatifJameel Poverty Action Lab (J-Pal), School of Economics, University of Cape Town, South Africa

- 5.2 Master Degree Courses in Environmental Economics and Policy: Center for Environmental Economics and Policy (CEEPA), University of Pretoria, 2000.
- 5.3 Mathematics for Economists, Department of Economics, University of Oslo, Norway, 2007.
- 5.4 Economic Analysis of the Threats Posed by Invasive Species, The Global Invasive Species Programme (GISP), Nairobi, 2008

## 6 Teaching experience

- 7.1 Environmental and Natural Resources Economics for Undergraduate, Masters and PhD
- 7.2 Applied Statistical methods and Econometrics for Undergraduate, Masters and PhD, UDSM
- 7.3 Microeconomics for undergraduate, Masters and PhD, UDSM
- 7.4 Socio-economics Aspects of Marine and Coastal Ecosystems, Masters, IMS- Zanzibar
- 7.5 Environmental Economics and Management for undergraduate, Ardhi University
- 7.6 Economics and Legislation for Wildlife Conservation, Department of Zoology, UDSM
- 7.7 Quantitative Methods (mathematics) for undergraduate, UDSM
- 7.8 Policy and Planning for postgraduate, Open university of Tanzania
- 7.9 Analytical software [STATA, SPSS, FRONTIER4.1]

## 7 Extra curricular and other activities at UDSM

- 7.1 Acting Head, Department of Agricultural Economics and Business, May 2015 to date
- 7.2 Coordinator, Postgraduate studies (DOE), August 2013 to 2015
- 7.3 Examination officer (DOE), January 2012 to 2015
- 7.4 Assistant Coordinator, undergraduate studies (DoE), January 2012 – July 2013

## 8 Publications (thesis, papers, articles, reports etc)

- 8.1 **Hepelwa, A.S (2016)**, Enhancing Capacity and Instruments for Maximizing Gains from Mineral Resources: The case of Gold. In D.Rwegasira, A. Mbelle and J. Aikaeli (eds). 2016. The economy of Mainland Tanzania into the 2000s: Productivity, Human Capital and Other Leading Issues.
- 8.2 **Hepelwa, A.S (2015)**, Maximizing Gains from Natural Resources to Transform the National Economic Base in Selected Countries: Natural Gas Potential in Tanzania. *in L.A Msambichaka, J.K Mduma, O.Selejio & O. Mashindano (eds).2015*. How can Tanzania Move From Poverty to Prosperity?
- 8.3 Kidane, A., **A.S. Hepelwa**, E. Ngeh and T. Hu (2015), A comparative analysis of Technical Efficiency of smallholder tobacco and maize farmers in Tabora, Tanzania. International Journal of Development and Agricultural Economics, Vol 6: DOI 10.5897/JDAE 2013.0504
- 8.4 Kidane, A., **A.S. Hepelwa**, E. Ngeh and T. Hu (2015), Health Cost of Smoking Induced Cardiovascular Diseases in Tanzania. Journal of Health Science 3 (2015) 117 – 122 doi:10.17265/2328-7136/2015.03.003

- 8.5 Hepelwa, A.S (2014)**, Dynamics of Watershed Ecosystem Values and Sustainability: An Integrated Assessment Approach. *International Journal of Ecosystem*, Vol 4, No 2, March 2014
- 8.6 Hepelwa, A.S (2013)**, Technical Efficiency as a Sustainability Indicator in Continumn of Integrated Natural Resource management. *Resources and Environment Journal*. December
- 8.7 Kidane, A., A.S. Hepelwa, E. Ngeh and T. Hu (2013)**, Agricultural inputs and Efficiency in Tanzania Small Scale Agriculture: A Comparative Analysis of Tobacco and Selected Food Crops. *Tanzanian Economic Review*, Vol 3, Nos 1 & 2, 2013:1 -13.
- 8.8 Hepelwa, A.S (2012)**, Tackling Missing Link between Human Development and Watershed Natural Resource Conservation Objectives: The Quest for Robust Socioeconomic Status Index. *Tanzania Economic Review*, Vol 2, No 2, 2012: 29 - 48
- 8.9 Schaafsma, M., S. Morse-Jones a, P. Posen , R.D. Swetnam , A. Balmford, I.J. Bateman, N.D. Burgess S.A.O. Chamshama, B. Fisher ,R.E. Green, A.S. Hepelwa, A. Hernández-Sirvent, G.C. Kajembe,K. Kulindwa , J.F. Lund, L. Mbwambo,H. Meilby, Y.M. Ngaga, I. Theilade, T. Treue, V.G. Vyamana, R.K. Turner , (2012)**, “Towards transferable functions for extraction of Non-timber Forest Products: A case study on charcoal production in Tanzania” *Ecological Economics*, ECOLEC-04246.
- 8.10 Hepelwa, A.S., K.Kulindwa and W. Bauwens (2012)**, The Monetary value of the Hydrologic Response Unit and the watershed sustainability: An integrated approach for Sigi catchment in Tanzania. In reports and Abstracts Book, Africa Water science, Policy and Management Conference: Water science for sound Africa water policies and governance in a changing Environment, Dar es Salaam, 23-27 April, 2012.
- 8.11 Hepelwa, A.S(2011)**, Environmental Resources sustainability Indicators: An integrated Assessment model for Tanzania. PhD Thesis, Vrije University Brussels. 281pp.
- 8.12 Hepelwa, A.S., Bauwens, W. and Kulindwa, K (2011)**, Economic valuation and hydrologic analysis in view of sustainable watershed management: The case of Sigi catchment in Tanzania. In reports and Abstracts Book, 2011 International SWAT conference, 15 – 17 June 2011, Toledo, Spain.
- 8.13 Hepelwa, A.S (2011)**, Economic Value and the Sustainability of Water Resources: An Integrated Assessment Approach for Water and Forests Resources in the Sigi Catchment, Tanzania. In Books of Abstracts - WRF 2011, Davos, Switzerland, September 19 – 21, 2011.
- 8.14 Hepelwa, A.S (2010)**, Attaching Monetary Value to the Rain - An Integrated Approach: The case of Small-Holder farms in Tanzania. *Tanzanian Economic Trends (TET)*, a Biannual Review of the Economy Journal.
- 8.15 Hepelwa, A.S (2010)**, Environmental and socioeconomic factors influencing crop cultivation. An application of Multivariate Discriminant Analysis (MDA) model in Sigi catchment, Tanzania. In Book of abstract - Environment and Natural Resources Management in Developing and Transition Economies. CERDI - Clermont Ferrand, France, 18 – 19 November 2010
- 8.16 Turpie, J.K. & Hepelwa, A. (2009)**, The value of water and aquatic ecosystems to communities in the Pangani River Basin, Tanzania, and implications for water resource management.

- 8.17** Kulindwa, K, R.Lokina and **A.S Hepelwa** (2009), Technical Efficiency and Its Implications on Environmental Resources: The case of small-Holder farmers' Maize Production in the in Rufiji Basin, Tanzania. *Tanzanian Journal of Population Studies and development* , Vol.16,No.1, 2009:1-15.
- 8.18** Gita K., **A. Hepelwa**, H.Hamiss, E.Kwayu, L.Emerton, O.Springate-Baginski, A.Mclvor, D Allen & W. Darwall (2009), An integrated assessment of the Biodiversity, Livelihood and Economic value of Wetlands in Mtanza-Msona Village, Tanzania. *University of East Anglia, UK*.
- 8.19** **Hepelwa, A.S** (2006), The Economic Value of water in non-irrigation agriculture: the case of smallholder farmers in Tanzania: Paper presented to the International conference organized by the International Society for Ecological Economics (ISEE) on "Ecological Sustainability and Human Well-Being" 15<sup>th</sup> -18<sup>th</sup> .December 2006, New Delhi, India.
- 8.20** **Hepelwa, A.S** (2006), The Economic Value of water in non-irrigation agriculture: the case of smallholder farmers in Tanzania: Paper presented to the International conference organized by the International Society for Ecological Economics (ISEE) on "Ecological Sustainability and Human Well-Being" 15<sup>th</sup> -18<sup>th</sup> .December 2006, New Delhi, India.
- 8.21** Turpie, J.K and **A.S. Hepelwa** (2006), Pangani River Basin state of the basin report: socio-economic assessment. Project report submitted to IUCN.
- 8.22** **Hepelwa, A.S** (2002), The Effectiveness of Treasury Bills as an Instrument of Monetary Policy in Tanzania" a dissertation for the masters degree program at Makerere University.
- 8.23** Lokina R, K.Kulindwa and **A.S. Hepelwa** (2006), " An Estimation of the Willingness to Pay for Improved Water Services in Tanzania". *Utafiti Journal*, Vol.7, No 1.
- 8.24** **Hepelwa, A.S** (2005), The Dynamics of Rolled over Public Domestic Debt in Tanzania. *Tanzanian Economic Trends (TET)*, a Biannual Review of the Economy Journal, Vol.18 no 2, December, 2005.

## **9 Conferences, workshops and seminar participation**

- 9.1** International workshop for the "Research project on Women in Tobacco Farming". May 07<sup>th</sup> to 09<sup>th</sup> 2016. Beijing, China.
- 9.2** International conference on Development Research: The Effect of Aid January 27 and 28, 2016. Oslo, Norway
- 9.3** Inception Workshop for the HydroAid Effectiveness Support for Energy and Development Project , 24<sup>th</sup> to 26<sup>th</sup> March 2015, Oslo, Norway
- 9.4** International workshop on Economics of Tobacco Control, August – September 2014, Public Health Institute, Berkeley, California.
- 9.5** International Workshop on Economics of Tobacco Control, July 2014, University of Capetown, South Africa.
- 9.6** International Workshop on " Market Based incentives in Watershed Management" , Organised by the United Nations Environment Programme (UNEP) and the University of Cape Town 11 – 12 December 2013, Spier Hotel, Stellenbosch, South Africa.
- 9.7** Environment for Development (EFD) Initiative, October 23 – 27, 2013, Cape Town, South Africa
- 9.8** The 6th Annual meeting of the Environment for Development (EFD) Initiative. October 26 -29, 2012,

Costa Rica, Central America.

**12.2 .Name of project: Tobacco Control Policy Analysis and Intervention Evaluation in China and Tanzania**

**9.9** 2012 Africa Water science, Policy and Management Conference: Water science for sound Africa water policies and governance in a changing Environment, Dar es Salaam, 23-27 April, 2012.

**9.10**2011 International SWAT conference, 15 – 17 June 2011, Toledo, Spain

**9.11** Environment and Natural Resources Management in Developing and Transition Economies. CERDI - Clermont Ferrand, France, 18 – 19 November 2010

**9.12** International Society for Ecological Economics(ISEE) on “Ecological Sustainability and Human Well-Being” 15<sup>th</sup> -18<sup>th</sup> .December 2006, New Delhi, India.

**9.13** Valuing the Arc (VtA) project meetings; November 2009, KunduchiBeach,Hotel Dares Salaam

**9.14** Climate Change Adaptation in Africa, Policy, Processes Linking Researchers with Policy makers meeting, Dar es Salaam, September 2009

**10 Membership**

**10.1** International Society for Ecological Economics (ISEE)

**11 Awards**

**11.1**Belgian Technical Cooperation (BTC) – Scholarship award for the PhD studies at Vrije University Brussels 2007 – 2011.

**11.2**African Capacity Building Foundation (ACBF) – scholarship award for the Master degree studies at Makerere University, 2000 – 2002

**12. Research projects**

**12.1Name ofproject: HydroAid: Effective Support for Energy and Development? (Project – NORGLOBAL, 2014 – 2017)**

Year: 2014 - 2017

Location: Tanzania, Norway and Nepal

**Research Partner: NIVA (Norwegian Institute for Water Research)**

Main project features: The primary objective of the project is to assess the effectiveness of Norwegian aid to water and energy in two key partner countries, Tanzania and Nepal through examining the processes and outcomes of aid.

Year: 2015 - 2017  
Location: Tanzania and China  
Main project features: Analysis of Economic based tobacco control measures and evaluation of alternative income generating activities

**12.2 .Name of project: Sustainable financing options of the climate change and variability adaptation measures by rural smallholder farmers in Tanzania, on going**

Year: 2013  
Location: Tanzania  
**Client: Environment for development Tanzania (EfDT)**  
Main project features: Assist small holder farmers to have effective climate change adaptation strategies to improve crop production and reduce poverty

**12.3Name ofproject: Poverty-local ecosystems income generation using economic instruments for sustainable utilization of environmental resources: Case study – Lake Victoria.**

Year: 2012  
Location: Tanzania (Lake Victoria)  
**Client: UNDP**  
Main project features: Poverty reduction and sustainability of the ecosystem services

**12.4 Name of project: Strengthening Pro-poor Wetland Conservation Using Integrated Economic, Livelihoods and Biodiversity Assessments (IUCN Project)**

Year: 2006  
Location: Tanzania (Rufiji)  
**Client: IUCN**  
Main project features: Poverty reduction and sustainable management of the wetlands resources

**12.5. Name of project: Economic Analysis of the Integrated Human-Wildlife conflicts mitigation measures in Tanzania: case study – Mikumi National Park**

Year: 2012  
Location: Tanzania  
**Client: WSPA- World Society for Protection of Animals**  
Main project features: Evaluation of the Village Saving and Loan scheme for mitigating human – elephant conflicts

<b>12.6 Name of project:</b>	<b>Evidenced Based Research And Policy Review On Oil And Natural Gas Sector In Tanzania</b>
Year:	2014
Location:	Tanzania
<b>Client:</b>	<b>WWF</b>
Main project features:	The main objective of this study was to conduct an evidenced based research and policy reviews to identify and review policies related to oil and natural gas in Tanzania. To determine issues, in respect of gaps, challenges and opportunities relevant to civil society organizations (CSOs) and key areas for CSOs intervention
<b>12.7 Name of project:</b>	<b>Baseline Survey And Capacity Needs Assessment For Strengthening The Role Of Civil Society Organizations In Delivering Sustainable Renewable Energy Solutions In Tanzania</b>
Year:	2014
Location:	Tanzania
<b>Client:</b>	<b>WWF</b>
Main project features:	This study aimed at conducting organizational and institutional capacity assessment to identify skills gap of local civil society organizations (CSOs) that shall be involved in a capacity building process and the engagement in energy policy dialogue in Tanzania under the Renewable Energy Programme (REP)
<b>12.9 Name of project:</b>	<b>The Impact of fertilizer subsidy on cereal crops production and land conservation in Tanzania. Environment for development Project</b>
Year:	2011- 2013
Location:	Tanzania ( Ruvuma and Tabora)
<b>Client:</b>	<b>Environment of Development Tanzania (EfDT)</b>
Main project features:	Evaluation of the performance the fertilizer subsidy scheme in Tanzania
<b>12.11 Name of project:</b>	<b>Eastern Arc Mountain Forestry Strategy: Thematic strategy: Mechanism for Payment for Water Environmental Services in Tanzania, Rufiji River basin</b>
Year:	2007
Location:	Tanzania

**Client:**

**UNDP**

Main project features:

Establishment of the payment for environmental services (PES)

**Certification:**

I, the undersigned, certify that to the best of my knowledge and belief, these data correctly describe my qualifications, my experience and myself.

A handwritten signature in cursive script, appearing to read 'A. J. ...'.

July, 2016