

Curriculum Vitae

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Shuaib Lwasa
Associate Professor
Dept. of Geography, Geo-informatics & Climatic Sciences
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CAREER INTERESTS

Dr. Shuaib Lwasa's career interests are in urban geography, spatial planning, landscape ecology, climate change, urban health, adaptation of cities to climate change, and disaster risk reduction, urban sustainability with links to livelihood systems and resilience to climate change. Shuaib publishes research on topics of cities and adaptation to climate change, health impacts of climate change, land and property rights, land use and landscape ecology, resource efficiency and spatial planning for sustainability. Shuaib coordinates the Habitat University (UNI) climate change and disaster Hub at the department of Geography. He also serves on the Science steering committee of Integrated Research on Disaster Risk (IRDR) and the Urbanization and Global Environmental Change (UGEC) of Future Earth. He is an IPCC Lead Author for the Fifth Assessment Report.

EDUCATION

Ph.D. in Urban Geography at Makerere University in 2007,

Masters in Geographic Information Science for Spatial Planning and Urban Management Applications, at ITC Netherlands in 1998,

Masters degree in Land Use Planning and Management at Makerere University

Bachelors in Geography at Makerere University in 1995.

PROFESSIONAL EXPERIENCE

January 2015 to date Associate Professor, Department of Geography Geo-Informatics and Climatic Sciences, Makerere University,

January 2012 to 2014 Lecturer, Department of Geography, Geo-Informatics and Climatic Sciences, Makerere University,

February 2011 to 2012. Lecturer, Department of Environmental Management Makerere University,

August 2009 to January 2011, Lecturer, Department of Geography, Makerere University,

October 1998 – July 2009 Assistant Lecturer, Part-Time Department of Geography, Makerere University,

September 2006 to August 2009, Regional Research Scientist, International Potato Center, Lima, Peru

PROFESSIONAL MEMBERSHIPS

- International Development Evaluation Association since 2010
- African Evaluation Association, since 2011
- Global Spatial Data Infrastructure Association (GSDI) since 2005
- International Association for People-Environment Studies (IAPS) since 2004
- Population Environment Research Network (PERN) since 2004
- Uganda Evaluation Association since 2007
- Uganda Institute of Physical Planners since 2007
- African Association of Remote Sensing of the Environment since 2004

PROFESSIONAL SKILLS

Geospatial analytics

Urban analysis

Spatial planning

Remote sensing analysis

SERVICE

2008-2010: **Coordinator**, Urban and Regional Planning Program Department of Geography, Makerere University, Uganda

2015 to date; Coordinator Graduate Programs, Department of Geography, Makerere University, Uganda

Editorial Review Board Member of International Journal of Applied Geographical Research

Editorial Review Board Member of African Geographical Review

Board Member of the EIS Africa a Network for environmental management

GRANTS

September 2006, Focus Cities Research Program, IDRC, Turning environmental problems into benefits, (US 1,100,000)

April 2012, START Africa climate change program, (US \$ 50,000)

August 2012, NORHED, Higher Education Innovations research, (US \$ 30,000)

March 2011, Climate change and Health, IDRC, (US \$ 625,000)

LANGUAGES

English (5/5S, 5/5R)

Luganda (5/5S, 5/5R), S: Speaking, R: Reading

GEOGRAPHIC EXPERIENCE

West Africa, Nigeria, Ghana
East Africa, Uganda, Kenya, Tanzania
South Asia, Bangladesh

SELECTED PUBLICATIONS

Lwasa, S., 2015. Urban Governance and Poverty Reduction in Uganda: Lessons from Foreign Aid Regime of Local Government Development Program. *Curr. Urban Stud.* 03, 25–34. doi:10.4236/cus.2015.31004

Lwasa, S., Mugagga, F., Wahab, B., Simon, D., Connors, J.P., Griffith, C., 2015. A meta-analysis of urban and peri-urban agriculture and forestry in mediating climate change. *Curr. Opin. Environ. Sustain.* 13, 68–73. doi:10.1016/j.cosust.2015.02.003

Lwasa, S., 2014. A systematic review of research on climate change adaptation policy and practice in Africa and South Asia deltas. *Reg. Environ. Change.* doi:10.1007/s10113-014-0715-8

S. Clark, L. Berrang-Ford, S. **Lwasa S.**, D.B. Namanya, V.L. Edge, IHACC research group, S. Harper. The burden and determinants of self-reported acute gastrointestinal illness in an Indigenous Batwa Pygmy population in southwestern Uganda. *Epidemiology and Infection*, available on CJO 2014. doi:10.1017/S0950268814003124

Seto K., S. Dhakal, A. Bigio, H. Blanco, G.C. Delgado, D. Dewar, L. Huang, A. Inaba, A. Kansal, **S. Lwasa**, J. McMahon, D. Mueller, J. Murakami, H. Nagendra, and A. Ramaswami, 2014: Human Settlements, Infrastructure and Spatial Planning. In: *Climate Change 2014: Mitigation of Climate Change. Contribution of Working Group III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change* [Edenhofer, O., R. Pichs-Madruga, Y. Sokona, E. Farahani, J. Minx, S. Kadner, K. Seyboth, A. Adler, I. Baum, S. Brunner, P. Eickemeier, B. Kriemann, J. Salvolainen, S. Schlömer, C. von Stechow and T. Zwickel (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA.

Christopher G. Boone, Charles L. Redman, Hilda Blanco, Dagmar Haase, Jennifer Koch, **Shuaib Lwasa**, Harini Nagendra, Stephan Pauleit, Steward T. A. Pickett, Karen C. Seto, and Makoto Yokohari, *Reconceptualizing Land for Sustainable Urbanity*, in “Rethinking Global Land Use in an Urban Era,” ed Karen C. Seto and Anette Reenberg. 2014. Strüngmann Forum Reports, vol. 14, J. Lupp, series ed. Cambridge, MA: MIT Press. ISBN:

Shuaib Lwasa, Frank Mugagga, Bolanle Wahab, David Simon, John Connors, Corrie Griffith, *Urban and peri-urban agriculture and forestry: transcending poverty alleviation to climate change mitigation and adaptation*, (2013), *Urban Climate* 7 (2014) 92–106doi: <http://dx.doi.org/10.1016/j.uclim.2013.10.007>

Lwasa, S. 2013. “Planning Innovation for Better Urban Communities in sub-Saharan Africa: The Education Challenge and Potential Responses.” *Town and Regional Planning* 60 (0) (April 30): 38–48.

Lwasa, S., Kadilo G., 2010, Confronting the urban challenge in Sub Saharan Africa: Participatory Action Research, institutional capacity and governance in Kampala, Commonwealth International Journal for Local Governance, issue 5 March 2010

Paul IsoloMukwaya, Hannington Sengendo and **Shuaib Lwasa**, 2012, Enhancing Security and Resilience of Low-Income Communities to Climate Change in Growing Cities: An Assessment of Flood Management and Planning Regimes in Kampala City, Uganda 543, in Jürgen Scheffran • Michael Brzoska • Hans Günter Brauch • Peter Michael Link • Janpeter Schilling (Eds.), Climate Change, Human Security and Violent Conflict Challenges for Societal Stability, Hexagon Series on Human and Environmental Security and Peace (HESP), Volume 8, Springer ISBN: 978-3-642-28625-4, Heidelberg Germany

UN-Habitat, 2010, **Lwasa S.**, Mabiriizi F., Sekimpi D., Mukwaya P., Koojo C., 2010, Climate Change Assessment for Kampala, Uganda, ISBN: 978-92-1-132264-4, UN-Habitat, 2010, Nairobi,

Lwasa S., Rose Mwebaza and Philip Njuguna, 2009, The nature and extent of environmental crime in Uganda; a situation report, Institute for Security Studies, March 2009, ISBN 978-1-920114-92-3

Lwasa S., 2009, Sustainable Urban Development: Managing City Development in Uganda, in the Global Urbanization in the 21st Century, PennState University Press, 2011

Magigi W, **Lwasa S.**, DrescherW. A., 2009, Land Regularization Framework: A Hidden Social Capital in Formalizing Informal Settlements in Cities of Sub-Saharan Africa, In Social Capital, Ed, Gregory Tripp, Michael Payne, ISBN 978-1-60692-973-5, 2009 Nova Science Publishers, Inc.

CONFERENCES, COURSES AND WORKSHOP ATTENDED

Invited Lectures and Conference Plenary presentations

The Tokyo Conference on International Study for Disaster Risk Reduction and Resilience Ito Hall, The University of Tokyo, Tokyo, Japan 14th - 16th January, 2015; “Inter-Disciplinary Study for Disaster Risk reduction - toward enforcing risk management” from the view point of African countries

United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM), in collaboration with the National Administration of Surveying, Mapping and Geoinformation of China (NASG), the forum was staged at the NASG China Headquarters in Beijing; “Determining information needs in geospatial information for climate change and disaster mitigation and focused on the issues, lessons learnt and gaps “ 22nd – 24th October 2014 <http://www.irdrinternational.org/2014/10/28/ggim/>

Nkumba University, 16th October 2013, Commencement Lecture for the 2013 graduating class, The role of a University graduate in handling the gran challenge of climate change

A series of Lectures in Promoting Local Economic Development in CDS as a module for a Diploma in Sustainable Urban Development in Lake Victoria Region for Town Clerks, city administrators and Planners. Organized by IHS, IGS and UN-Habitat between 1st to 5th November 2010

Lwasa S., Institutions and urban governance for sustainability; A Sub-Saharan Africa ViewPoint, International Conference on URBANIZATION AND GLOBAL ENVIRONMENTAL CHANGE: Opportunities & Challenges for Sustainability in an Urbanizing World, ARIZONA STATE UNIVERSITY TEMPE, ARIZONA, USA, OCTOBER 15-17, 2010

A series of Lectures in Environmental Planning and Management as a module for a Diploma in Sustainable Urban Development in Lake Victoria Region for Town Clerks, city administrators and Planners. Organized by HIS, IGS and UN-Habitat between 27th September to 1st October 2010

Lecture at US Embassy in Kampala on High resolution imagery and analysis of urban sprawl in Uganda” under the Global Dialogue and Emerging Science and Technology (GDEST) a US State Department initiative in collaboration with African institutions

Lecture at UN-Habitat on Tool Development for Cities in Climate Change: An evaluation of experiences in Kampala’s CCCI Nairobi, Kenya, 25 to 27 March 2009 Windsor Hotel and Country Club, Nairobi, Kenya

A series of Lectures at the Urban Tools for Climate Change Course at Institute of Housing Studies, Erasmus University, Rotterdam, May 11th to June 3rd 2010
Introduction to climate adaptation: Practical aspects of adaptation linked to some sectors.
Experiences of some cities

Spatial planning/land use: Importance of including climate change issues into spatial planning and land

Disaster Risk Reduction: Linking disaster risk reduction and climate changes

Lectures at the 2010 January Term Course “Ethics, Protocols and Practice of International Research, 1st to 18th January 2010, University of Virginia Charlottesville

Seminar and Conferences

Labbé, J., Ford, J.D., Berrang-Ford, L., Donnelly, B., **Lwasa, S.**, Namanya, D., Twesigomwe, S., IHACC Research Team, Harper, S. (2014, December). Comment les changements climatiques affectent-ils la santé d’une communauté rurale en l’Ouganda? Une évaluation de la vulnérabilité à la malaria, l’insécurité alimentaire et les maladies gastro-intestinales et de capacité d’adaptation. Poster session presentation at the 6ème Symposium Ouranos, Québec, Québec.

Clark, S., L. Berrang-Ford, **S. Lwasa**, D. Namanya, V.L. Edge, IHACC Research Team, and S. Harper. August 2014. The burden and determinants of self-reported Acute Gastrointestinal Illness

among an Indigenous Batwa-Pygmy population in southwestern Uganda. The 5th Biennial Conference of the International Association for Ecology & Health, Poster Presentation. Montreal, Canada.

Lwasa S., Building urban community resilience to climate change that couples with development, International Conference on URBANIZATION AND GLOBAL ENVIRONMENTAL CHANGE: Opportunities & Challenges for Sustainability in an Urbanizing World, ARIZONA STATE UNIVERSITY TEMPE, ARIZONA, USA, OCTOBER 15-17, 2010

Lwasa S., Institutions for urban governance and adaptation to climate change in Kampala, International Conference on URBANIZATION AND GLOBAL ENVIRONMENTAL CHANGE: Opportunities & Challenges for Sustainability in an Urbanizing World, ARIZONA STATE UNIVERSITY TEMPE, ARIZONA, USA, OCTOBER 15-17, 2010

Lwasa S., Vulnerability assessment and climate change adaptation planning in Kampala, ICLEI 1st World Congress on Cities and Adaptation to Climate Change Bonn Germany 28-30th May 2010

Lwasa S., Urban Adaptation Planning and Governance: Challenges to Emerging Wisdom, Panel on Climate resilient structures: planning and Governance, ICLEI 1st World Congress on Cities and Adaptation to Climate Change Bonn Germany 28-30th May 2010

Lwasa S., Urban vulnerability assessments in developing countries: Panel on lessons from tool makers and field testers, ICLEI 1st World Congress on Cities and Adaptation to Climate Change Bonn Germany 28-30th May 2010

Lwasa S., Urban Development and Environmental Challenges in Uganda” at the National Sustainable Development Forum: Rising to the Sustainable Development Challenge: The Time to Act is Now, Imperial Royale Hotel, Kampala January 21-22, 2010

Lwasa S., Mugagga F., Tugume D., 2009, Adaptations of Land use to climate variability and change; effects on rural livelihoods in Uganda, AfricaGIS 2009 26th – 30th October, Commonwealth Resort Munyonyo, Kampala Uganda

Lwasa S., 2009, Geospatial analysis and decision support for health services planning in Uganda, AfricaGIS 2009 26th – 30th October, Commonwealth Resort Munyonyo, Kampala Uganda

Lwasa S., 2009, Analysis of rural energy demand and planning for service delivery in Uganda AfricaGIS 2009 26th – 30th October, Commonwealth Resort Munyonyo, Kampala Uganda

Lwasa S., 2009, High resolution imagery and analysis of urban sprawl in Uganda, Global Dialogue and Emerging Science and Technology (GDEST) Pilot Project, US Embassy Uganda and AfricaGIS 2009 26th – 30th October, Commonwealth Resort Munyonyo, Kampala Uganda

Lwasa, S., Cecilia Njenga, 2009, Reappraising the Role and Impact of Urban Planning Processes in Eastern Africa. First South African, City Studies Conference, University of the Witwatersrand, John Moffat Building, 24 and 25 June 2009 Johannesburg

Lwasa, S., 2009, Innovative Planning and adaptation to CC for improved Urban Communities: The Kampala case, Cities in Climate Change Initiative (CCCI) workshop on CLIMATE CHANGE AND URBAN PLANNING due 28-30 May 2009, Rotterdam

Lwasa, S., 2009, Confronting the urban challenge in Sub Saharan Africa: Participatory Action Research, institutional capacity and governance in Kampala, paper presented at the Research Colloquium preceding the Commonwealth Local Government Conference 2009, 10 – 11th May 2009, Freeport, Grand Bahamas

Lwasa, S., 2009, Urban Governance and Poverty Reduction in Uganda: Lessons from Foreign Aid Regime of Local Government Development Program, paper presented at the Commonwealth Local Government Conference 2009, 11 – 14th May 2009, Freeport, Grand Bahamas

Lwasa, S., Tenywa, M., Nasinyama G., Sengendo H, 2009, Enhancing adaptation of poor urban dwellers to the effects of climate variability and change, paper presented at the Conference on Climate Change: Global Risks, Challenges and Decisions March 10-12, 2009, University of Copenhagen, Denmark

Lwasa, S., 2009, Managing city growth and development in Africa; challenges and opportunities, paper presented at the Open Science Conference on Social Challenges of Climate Change, 26th to 30th April 2009

Wasswa H., **Lwasa S.**, 2009, Intrinsic economic values for incentivizing sustainable wetland ecosystems management in Uganda; influencing social behavioral change, paper presented at the Open Science Conference on Social Challenges of Climate Change, 26th to 30th April 2009

Bamutaze Y., **Lwasa S.**, 2009, Can Africa build resilient systems to realities of increased natural and human induced disasters?, paper presented at the Open Science Conference on Social Challenges of Climate Change, 26th to 30th April 2009

Lwasa, S., 2009, Socio-economic Applications of Geospatial techniques, GIS Awareness Workshop, 7th April 2009, Faculty of Technology, Makerere University

Lwasa S., 2009, The Role of Indigenous Knowledge Systems in Natural Resource Management for Sustainability: A case Study of Karuma Hydropower Project Area, Uganda, paper presented at the OSSREA Uganda Chapter workshop, 4th April 2009, Makerere University, Kampala Uganda

Lwasa S., 2008, Informal and Formal land markets in Africa, paper presented at the Expert Group Meeting on “Land for Sustainable Urbanization in Africa” 21-22 February 2008, UNECA Addis Ababa Ethiopia.

Lwasa S., 2008, Productive Urban Spaces and Indigenous Vegetables; policy dialogues and experiences from Kampala, proceedings of the International Policy Dialogue Workshop: The promotion of Indigenous Vegetables in African Urban and Peri-urban spaces; 23rd to 26th January 2008, Rhodes University, Grahams town, South Africa

Lwasa S., Prain G., Tenywa M. M., Majjaliwa G., M., Sengendo H., Nasinyama G., 2008, Outcome oriented geospatial applications in research; Urban Harvest experiences, proceedings of the Global Dialogue on Emerging Science and Technology Conference on Geospatial Sciences for Sustainable Development in Africa that will be held in Cape Town, South Africa from March 16-20th 2008

Lwasa S., 2008, Impact Evaluation of NAADS Natural Resources Strategy for rural livelihoods transformation and environmental sustainability in Uganda, proceedings of IDEAS Impact Evaluation Workshop, 4th April 2008, Kuala Lumpur, Malaysia

Lwasa S., 2006, Alternative pro-poor models for Urban Services and Infrastructure delivery in Uganda, Public expenditure and service delivery in Africa: Managing public expenditure to improve service quality and access, UNECA, Addis Ababa

Lwasa S., 2005, Applying Geo-Information for Urban Land Use Planning and City Management in Kampala, Proceedings of the Africa GIS 2005 Conference, 31st October to 2nd November 2005, Tswane

Lwasa S., J. B Nyakaana and Hannington Sengendo, 2005, Environmental Impacts of Land Use Land Cover Change in Metropolitan Kampala, The 6th Open Meeting of the Human Dimensions of Global Environmental Change Research Community, University of Bonn, 9-13 October 2005

Bamutaze, Y., **Lwasa, S.** (2004). Are Kampala's floods driven by Geo-physical Processes? An assessment of the Causes and impacts to the urban population. ICSU, Dark Nature Project Proceedings

Lwasa S., 2005, Assessment of Development Planning and Plan Implementation Processes for Social Services delivery in Kampala, Network of Ugandan Researchers and Research Users

Lwasa S., 2005, Local Government Development Program and Poverty Reduction in Uganda: Lessons learned from Foreign Aid International Regime, International Aid, Trade and Development in Africa: The search for a Development paradigm, 21-23 November 2005, United Nations Conference Centre (UNCC), Addis Ababa, Ethiopia. Forthcoming in Journal of Local Governance, May 2009

Lwasa S. 2004, Urban Expansion Processes of Kampala in Uganda: Perspectives on contrasts with cities of developed countries, panel paper, cyber seminar, November 29-December 15, 2004, <http://www.populationenvironmentresearch.org>

Lwasa S. 2004, A Geo-Information Approach for Urban Land Use Planning in Kampala, proceedings of the FIG Working Week 2005 and GSDI-8, Cairo, Egypt April 16-21, 2005

Lwasa S., 2004, Role of IKS in Decision Making for Two Hydropower Generation Projects in Uganda, Indigenous Knowledge's: Transforming the Academy May 27th 2004, Penn State College, PA

Lwasa S., 2002, Indigenous systems of knowledge and sustainability: Dismissible or adaptable in natural resource use and management, Berlin Conference on the Human Dimensions of Global Environmental Change, Knowledge for the Sustainability Transition: The Challenge for Social Science, Vrie University, Berlin 6th to 8th December 2002

Lwasa S., 2002, Informal land markets, Housing development and its implications to urban environmental change Bonn International Human Dimensions Workshop on "Urbanization and the Transition to Sustainability, 31st 2002 to June 16th 2002

Lwasa S., Opportunities and challenges of Information Technology for Tourism in Uganda World Tourism day workshop on "Technology and Nature: Two Challenges for Tourism at the dawn of the 21st Century, September 2000

Lwasa S., Environmental crisis in Communities of the Urban Poor, OSSREA workshop, January 1999,

Lwasa S., 1999, Planning and Social equity Issues in Kampala, Architects International Conference on "Urbanization in Uganda and the Challenges of the 21st Century

Lwasa S., 1999, Survival by the Garbage skip by the urban poor communities in Kampala environs, Workshop on People, Place and Provisioning, December 1999