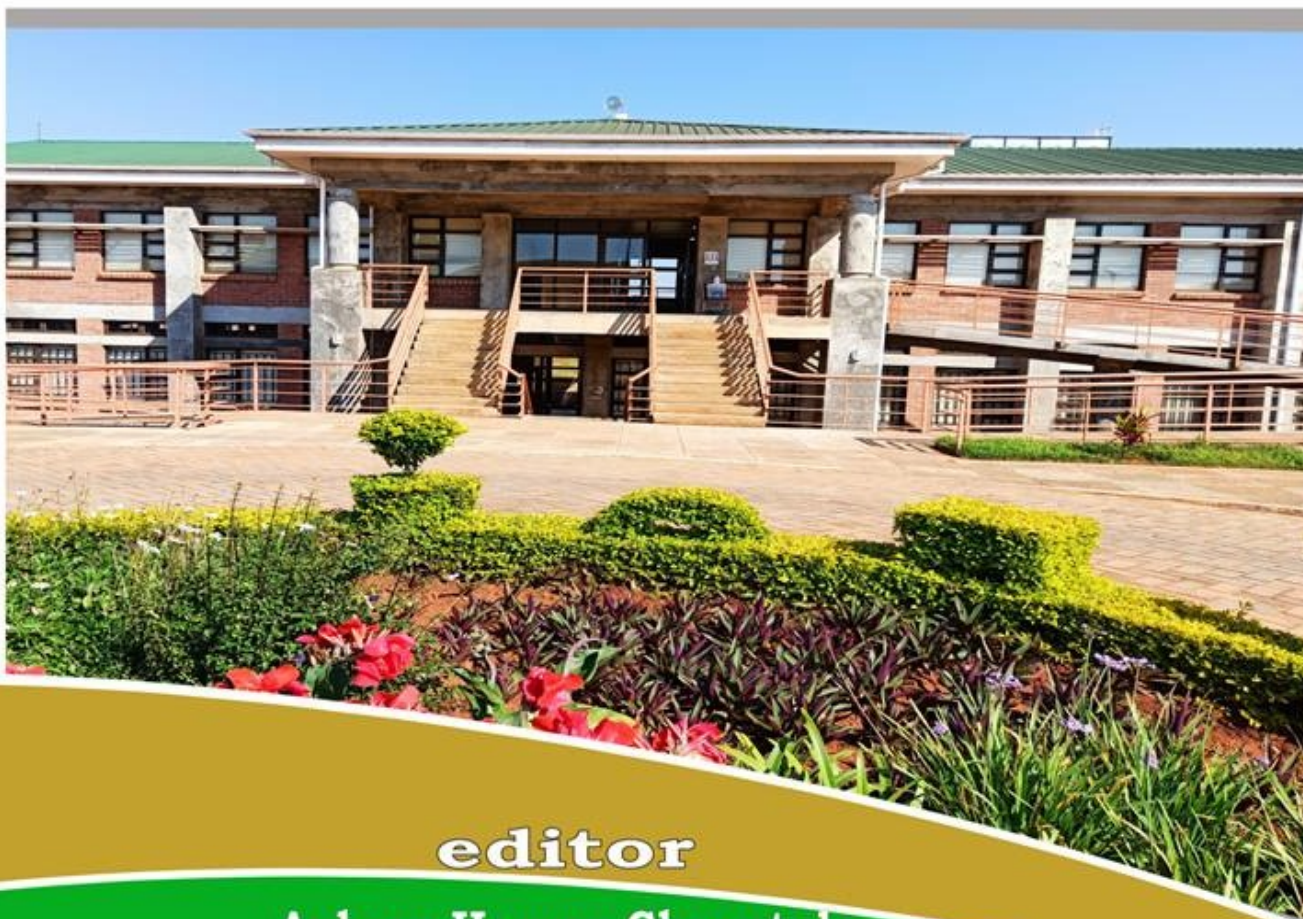




MZUZU UNIVERSITY

Directory of Research and Publications Volume 2



editor

Aubrey Harvey Chaputula

associate editors

Agness Hara

Gift Mbwele

Hamis Abdullah

2019

MZUZU UNIVERSITY

DIRECTORY OF RESEARCH AND PUBLICATIONS
VOLUME 2

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DEDICATION

To all Mzuzu University dedicated and tireless researchers

INTRODUCTION

This publication captures the profiles and publication records of Mzuzu University academic members of staff. Staff that fall within the academic staff cadre at Mzuzu University include those holding the ranks of staff associates (associate lecturers), assistant lecturers, lecturers, senior lecturers, associate professors and full professors working in the various academic departments, faculties and research centres. Much as this is the case, only records of academic staff from the rank of lecturer and above are included in this directory. This decision was made on the premise that individuals might only engage in serious research work after attaining a master's degree, and most of the academic staff below the rank of lecturer may not have acquired this qualification yet. Senior staff from the Library and Learning Resources Centre (LLRC) from the rank of assistant librarian and above, also fall within the academic staff cadre hence their profiles have equally been included.

The idea to come up with this publication was mooted after realising that there are a lot of research, consultancy and publication activities being undertaken by Mzuzu University academic members of staff within and without the University. However, there was no credible outlet of publicising or showcasing such type of activities. This may have in part contributed to the relatively low rankings of the University over the years as very little was known about the University in this area. It has also been realised that most of the times, both governmental and non-governmental organisations tend to go outside the country whenever they want to procure the services of experts in various fields. This could be attributed to the fact that they may not be aware that the country, or Mzuzu University in particular, may have such type of experts. This publication is, therefore, aimed at solving some of the aforementioned challenges. It is anticipated that academic departments and centres would use this publication to showcase the various expertise and skills available not only within their respective departments and centres but the entire University. The University may use this publication to market itself, a development that may lead to increased cash flow through initiation of more collaborative projects with other organisations, and greater visibility leading to higher rankings.

The profiles included in this publication include academic credentials of the staff members concerned. In certain instances, professional certificates and ORCID IDs are also included. The ORCID IDs could be used to get more up to date academic staff profiles as this publication will only come out once in a year. The publication records include titles of PhD theses, titles of master's dissertations, books and book chapter publications, journal article publications, conference proceedings and papers.

Mzuzu University was established by an Act of Parliament in 1997 as Malawi's second public university. However, the University only became fully operational in January 1999 when it admitted its first students. Education was the pioneering faculty at the opening of the University. Since its first intake in 1999, the University has steadily grown from a single Faculty of Education to six faculties (Education; Environmental Sciences; Health Sciences; Tourism, Hospitality and Management; Humanities and Social Sciences; and Science, Technology and Innovation) and six centres (Centre for Open, Distance and eLearning; Testing Centre for Renewable Energy Technologies (TCRET); Water and Sanitation (WATSAN); and Centre for Environmental Management).

FOREWORD



Welcome to Volume 2 (2019) of the Directory of Research and Publications of Mzuzu University. This Directory is published annually with the aim of capturing and disseminating research and publication activities undertaken by Mzuzu University academic staff. Volume 2 covers publications from 2018 – 2019, and new material not appearing in Volume 1. All other publications below these dates appeared in volume 1. As a University, we believe that sharing this information will assist our stakeholders, partners and the community at large to easily identify the skills and expertise that are readily available at the University thereby leading to their full utilisation.

Universities the world over are responsible for research, knowledge generation, scholarship and innovation. They also serve as conduits for the transfer, adaptation, and dissemination of knowledge generated across the world. Universities are expected to guarantee the most efficient utilisation of research results and their possible application to economic life. Research is a prerequisite for the success and credibility of any academic institution around the globe. This is even more so for Mzuzu University whose mandate is primarily to produce new knowledge and impart new skills to its student population while also influencing national and international policies. In line with this trajectory, it is irrefutable that the Mzuzu university community, particularly academics and those who occupy management positions should be constantly engaged in research.

The Malawi government aims at strengthening capacity in research for evidence-based policy making as outlined in several development agendas and policies. Research is important in supporting evidence-based decision-making at all levels of the system. Mzuzu University is, therefore, committed to strengthen its capacity to carry out policy relevant research, to enforce adherence to research framework and agenda, and to strengthening mechanisms for approving and monitoring of research. To achieve some of the national goals, Mzuzu University has revised its 2004 Research Policy and developed a Research Agenda (2020-2025) which has been linked to the national research and development priority areas.

With the new Research Policy and Research Agenda, we seek to continue Mzuzu University's growth and improvement in research, teaching and learning quality. We look forward to working with our friends, partners and stakeholders, both in Malawi and internationally, to deliver on quality research, teaching and learning as we continue to strive to meet our vision and mission and to uphold our values of self-reliance, service and perfection. This Directory presents some of the works produced by these members of staff. We hope that this Directory, along with future Directories, provide adequate and useful information to our stakeholders about the existing skills and expertise.

Professor Wales Singini, PhD
DIRECTOR OF RESEARCH

ACKNOWLEDGEMENT

The Editorial Team would like to thank the Mzuzu University Directorate of Research that continues to offer administrative, logistical and financial support to sustain this publication. We are, therefore, grateful to Professor Wales Singini, Director of Research, for the support rendered.

During the compilation and editing of this directory, the Editorial Team received support from heads of academic departments and deans of faculty. Some of the people who deserve special praise include Associate Professor Khumbo Kumwenda (Former Head, Department of Mathematics and Statistics), Dr Nephtale Mumba (Head, Department of Mathematics and Statistics), Associate Professor Victor Mgomozulu (Former Dean, Faculty of Education), and Dr Joshua Isaac Kumwenda (Senior Lecturer, Department of Languages, Cultural and Creative Studies), Mr George Mhango (Head, Department of Governance, Peace and Security Studies), Associate Professor Rochelle Holm (Manager, Centre of Excellence in Water and Sanitation), and Mr Khumbo Newa (Head, Department of Communication Studies). These individuals are singled out for special praise for playing an even bigger role in the publication of this directory.

The Editorial Team is also grateful to all fellow academics who continue to support this publication by contributing material for inclusion in this directory on a yearly basis. It is our hope that this trend will continue. We know that some academics failed to contribute their entries because of reasons ranging from communication breakdown, busy schedules and being away on study leave. Efforts will continue to be made to make the publication bigger, better and more inclusive.

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FACULTY OF EDUCATION

The Faculty of Education was the first faculty to be established at Mzuzu University. The goal of the Faculty is "to prepare teachers and tutors with sound professional ethics and appropriate skills and attitudes for effecting competence-based learning in educational institutions". The faculty offers degree programmes at undergraduate and postgraduate levels.

The faculty has three departments namely Educational Foundations, Teaching, Learning and Curriculum Studies and Inclusive Education.

RESEARCH ACTIVITIES

The faculty carries out research focusing on education management and administration, learning difficulties and pedagogical methods.

DEPARTMENT OF TEACHING, LEARNING AND CURRICULUM STUDIES

Teaching, Learning and Curriculum Studies is one of the new departments within the Faculty of Education that was created in 2018. The department aims to produce graduates that are well versed with modern teaching and learning techniques particularly for the secondary school education sector.

RESEARCH AREAS

Members of staff within the Department of Teaching, Learning and Curriculum Studies carry out research in the following areas: Curriculum and instruction, subject-specific teacher preparation and development, and learners and learning.

LYDIA LUMBANI KISHINDO-MAFUTA, MA; BEd

RESEARCH INTERESTS

- Second language acquisition
- Teaching English as a second language
- Language teacher education

Title of Master's Dissertation

The role of discourse in the promotion of the education of the girl child in Malawi: A case of selected secondary schools in Zomba

BOOK PUBLICATIONS

Kishindo-Mafuta, L. and Kondowe, W. (2017) *Miyambi ndi nthano mchichewa/Chichewa proverbs and folktales*, Blantyre: Dzuka

JOURNAL PUBLICATIONS

Manda, M., Kondowe, W., Ngwira F. and **Kishindo, L.** (2016), "An analysis of verbal extensions in Malawian Tonga: Towards Mirror Principle and Templatic Morphology", *International Journal of Linguistics*, Vol. 8 No. 4, pp. 66-82.

Kishindo, L. (2013/2014), "The role of discourse in the promotion of the education of the girl child in Malawi", *Journal of Humanities*, Vol. 23, pp. 39 – 65.

Mjaya, A., Mkandawire, K., **Kishindo, L.**, Kalikokha, C. and Lora-Kayambazinthu, E. (2006), "An evaluation of language in education policy from 1968 to present", *Journal of Humanities*, Vol. 20 No. 1, pp. 1 - 27.

DEPARTMENT OF EDUCATION FOUNDATIONS

Department of Education Foundations was created in 2018 through the reorganisation of the Department of Education and Teaching Studies. The Department offers courses in psychology, sociology and general education courses.

RESEARCH AREAS

Academic members of staff within the department carry out research in the following thematic areas: Educational leadership, governance and reform; cognitive and socio-emotional competence development in kindergartens; schools, higher education and adult life; teacher education and professional development.

VICTOR MGOMEZULU, PhD; MEd; B Ed; Dip. Ed; Dip. Mgt

RESEARCH INTERESTS

- Educational Leadership and Management
- Teaching methods
- Teacher education
- Critical thinking

Title of PhD Thesis

Stakeholder involvement in strategic planning: A strategy to mitigate the effects of HIV and AIDS on secondary education in Botswana

Title of Master's Dissertation

Learner involvement in management aspects of senior secondary schools in the North-Central District of Botswana

BOOK CHAPTER

Mgomezulu, V.Y. and Wamba, N.G. (2019), "The extent of decentralisation in education: evidence from selected secondary schools in the Northern Education Division in Malawi", in Vitallis Chikoko (Ed.). *Africa Handbook of School Leadership*, New York: NOVA Science Publisher, pp. 31-52.

JOURNAL PUBLICATIONS

Mwenda, D.B. and **Mgomezulu, V.Y.** (2018), "Impact of monetary incentives on teacher retention and attraction to rural primary schools: Case of the rural allowance in Salima District in Malawi", *African Educational Research Journal*, Vol. 6 No. 3, pp. 120-129.

MARISEN MWALE, PhD; M. Ed; B. Ed

RESEARCH INTERESTS

- Adolescent health and psychology
- Public health, Epidemiology and Biostatistics
- Population, Health and Environment
- Education – Child, Adolescent development and Philosophy
- Rural and Community Development

Title of PhD Thesis

Effects of adolescent exposure to HIV and AIDS Behaviour Change Interventions [BCI] on sexual behaviour change and HIV risk reduction in northern Malawi

JOURNAL PUBLICATIONS

Mwale, M. and Muula, A.S. (2019), “The efficacy of peer education in sexual behavioral change among school-going adolescents in Northern Malawi: A quasi experiment”, *Journal of HIV/AIDS & Social Services*, Vol. 18 No. 3, pp. 229-247.

Mwale, M. and Muula, A.S. (2018), “Effects of adolescent exposure to behavior change interventions on their HIV risk reduction in Northern Malawi: a situation analysis”, *SAHARAJ: Journal of Social Aspects of HIV/AIDS*, Vol. 15 No. 1, pp. 146-154,

FACULTY OF ENVIRONMENTAL SCIENCES

The Faculty of Environmental Sciences was established in 2001. The Faculty aims at producing high quality graduates in environmental sciences that can spearhead technological knowledge and experience into production; business operations; and investments in the sphere of environment sciences. The Faculty is home to five departments which include Agri-business, Forestry and Environmental Management, Fisheries and Aquatic Sciences, Built Environment, and Water Resources Management and Development. The Faculty also houses the Center of Excellence in Water and Sanitation; and the Centre for Environmental Management.

RESEARCH ACTIVITIES

Academic staff within the Faculty of Environmental Sciences carry out interdisciplinary research as well as discipline specific research. Some of the research output emanating from the faculty is in the field of environmental management, water and sanitation, property management, disaster risk management, and community development.

CENTRE OF EXCELLENCE IN WATER AND SANITATION

The Centre of Excellence in Water and Sanitation was established in 2009. It falls within the Faculty of Environmental Sciences. The primary objective of the Centre is to improve the effectiveness of sanitation, hygiene practices, and water supply interventions serving Malawi and surrounding countries.

MISSION

To provide high quality education, training, research, and complementary services to meet the technological, social and economic needs of individuals and communities in Malawi.

RESEARCH AREAS

The Centre participates in research in the following areas: water, sanitation, hygiene and food safety. The Centre has strength in practical research, bringing results and solutions back to the areas of research for direct implementation and further through publishing for global sharing of lessons learned. Mzuzu University also has growing PhD and Masters programs, and post graduate students are highly involved in practical and innovative research experiences in each of our Centre projects. The Centre's demonstrated track record includes 28 projects, USD\$1,574,000 in grants and awards and more than 50 authored papers or international presentations.

ROCHELLE H. HOLM, PhD; PMP

RESEARCH INTERESTS

- Fecal sludge management
- Assessment of innovative low-cost water, sanitation and hygiene technologies
- Water, sanitation and hygiene strategies for users with disabilities
- Food safety
- Collecting and analyzing water, soil and fecal sludge samples

Title of PhD Thesis

Survey of water quality in northern Malawi, Africa, and human health risk

Title of Master's Thesis

Comparison of three drilling technologies to characterize the Vadose Zone, Hanford Site

JOURNAL PUBLICATIONS

Lazaro, J., Kapute, F. and **Holm, R. H.** (2019), "Food safety policies and practices in public spaces: The urban water, sanitation, and hygiene environment for fresh fish sold from individual vendors in Mzuzu, Malawi", *Food Science & Nutrition*, Vol. 7, pp. 2986-2994.

Mkandawire, J. C., Tembo, M., Nhlema, M., Luhanga, J. and **Holm, R. H.** (2019), "Do rope and washer pumps provide safe water and satisfied users? A case study piloting new rural water supply technology in Rumphi District, Malawi", *Water SA*, Vol. 45 No. 3, pp. 456-463.

Kaponda, P., Muthukrishnan, S., Barber, R and **Holm, R. H.** (2019), "Drinking water quality and human dimensions of cholera patients to inform evidence-based prevention investment in Karonga District, Malawi", *Water Supply*, Vol. 19 No. 7, pp. 2079-2087.

Kayoka, C., Itimu-Phiri, A., Biran, A. and **Holm, R. H.** (2019), "Lasting results: A qualitative assessment of efforts to make community-led total sanitation more inclusive of the needs of people with disabilities in Rumphi District, Malawi", *Disability and Health Journal*, Vol. 12, pp. 718-721.

Mallory, A., Crapper, M. and **Holm, R. H.** (2019), "Agent-based modelling for simulation-based design of sustainable faecal sludge management systems", *International Journal of Environmental Research and Public Health*, Vol. 16 No. 1125. DOI: 10.3390/ijerph16071125 <https://www.mdpi.com/1660-4601/16/7/1125>

Manga, M., Singini, W., Di Bella, V., Flaherty, M. G. and **Holm, R. H.** (2019), "Unpacking healthcare waste management at rural village health clinics in the Ntcheu District (Malawi)", *Environmental Monitoring and Assessment*, Vol. 191 No. 175, pp. 1-10.

Holm, R. H. (2019), “Encouraging African research for the next generation”, *Eos*, 100. DOI: 10.1029/2019EO115891

Mchenga, J. and **Holm, R. H.** (2018), “Can a precast pit latrine concrete floor withstand emptying operations? An investigation from Malawi”, *Journal of Water, Sanitation and Hygiene for Development*, Vol. 9 No. 1, pp. 181-186.

Samikwa, E., Kapute, F., Tembo, M., Phiri, T. and **Holm, R. H.** (2019), “Identification of critical control points using water quality as an indicator of hygiene for artisanal fisheries on Lake Malawi”, *Lakes & Reservoirs: Science, Policy and Management for Sustainable Use*, Vol. 24, pp. 3 -12.

Stedman, S., Mnyimbiri, A. M., Kawonga, Z., Malota, M., Njera, D., Hall, R. P. and **Holm, R. H.** (2018), “Using irrigation to kick-start multiple-use water services for small-scale farmers in Malawi: A case study of the Nkhata Bay District”, *Irrigation and Drainage*, Vol. 67, pp. 645-653.

Holm, R. H., Kunkel, G. and Nyirenda, L. (2018), “A thought leadership piece: Where are the rural groundwater quality data for the assessment of health risks in northern Malawi?”, *Groundwater for Sustainable Development*, Vol. 7, pp. 157-163.

Biran, A., Danquah, L., Chunga, J., Schmidt, W., **Holm, R.**, Itimu-Phiri, A., Singini, W., Jones, H., Kuper, H. and White, S. (2018), “A cluster-randomized trial to evaluate the impact of an inclusive, Community-Led Total Sanitation intervention on sanitation access for people with disabilities in Malawi”, *The American Journal of Tropical Medicine and Hygiene*, Vol. 98 No. 4, pp. 984-994.

Holm, R. H., Kamangira, A., Tembo, M., Kasulo, V., Kandaya, H., Gijs Van Enk, P. and Velzeboer, A. (2018), “Sanitation service delivery in smaller urban areas (Mzuzu and Karonga, Malawi)”, *Environment & Urbanization*, Vol. 30 No. 2, pp. 597 - 612.

Zaunda, H., **Holm, R. H.**, Itimu-Phiri, A., Malota, M. and White, S. (2018), “A qualitative assessment of disability friendly water and sanitation facilities in primary schools, Rumphi, Malawi”, *Development Southern Africa*, Vol. 35 No. 6, pp. 760-773.

Chirwa, C. F. C., Hall, R. P., Krometis, L.-A. H., Vance, E. A., Edwards, A., Guan, T. and **Holm, R. H.** (2017), “Pit latrine fecal sludge resistance using a dynamic cone penetrometer in low income areas in Mzuzu City, Malawi”, *International Journal of Environmental Research and Public Health*, Vol. 14 No. 87. DOI:10.3390/ijerph14020087

Sisco, T., Rogers, T., Beckwith, W., Chipeta, W., **Holm, R.**, Buckley, C. A. and de los Reyes III, F. L. (2017), “Trash removal methods for improved mechanical emptying of pit latrines using a screw auger”, *Journal of Water, Sanitation and Hygiene for Development*, Vol. 7 No. 1, pp. 85-91.

Newcomer, E., Boyd, C., Nyirenda, L., Opong, E., Marquez, S. and **Holm, R.** (2017), “Reducing the burden of rural water supply through greywater reuse: A case study from northern Malawi”, *Water Science & Technology: Water Supply*, Vol. 17 No. 4, pp. 1088-1096.

Chiposa, R., **Holm, R. H.**, Munthali, C., Chidya, R. C. G. and de los Reyes III, F. L. (2017), “Characterization of pit latrines to support the design and selection of emptying tools in peri-urban Mzuzu, Malawi”, *Journal of Water, Sanitation and Hygiene for Development*, Vol. 7 No. 1, pp. 151-155.

Chipeta, W. C., **Holm, R. H.**, Kamanula, J. F., Mtonga, W. E. and de los Reyes III, F. L. (2017), “Designing local solutions for emptying pit latrines in low-income urban settlement (Malawi)”, *Physics and Chemistry of the Earth*, Vol. 100, pp. 336-342.

Holm, R., Wanda, E., Kasulo, V. and Gwayi, S. (2014), “Identification of the potential opportunities, barriers, and threats within the sector in taking up sanitation as a business: rural sanitation in Nkhata Bay District (Malawi)”, *Waterlines*, Vol. 33 No. 3, pp. 269-274.

DEPARTMENT OF AGRI-SCIENCES

The Department was established in 2016 in response to the emerging need for agricultural entrepreneurship and Transformative Community Development professionals with enough competence and technical knowledge to contribute to Malawi's farming and community development sectors. The Department targets enterprising applicants who are either aspiring or current agricultural entrepreneurs and who are passionate to be part of transforming Malawi's agricultural sector into one of the most thriving agricultural sectors and those who aspire to stimulate community development in a dynamic, innovative and practical manner. The Department offers courses mainly to students pursuing BSc, MSc and PhD degree programmes in Agriculture Value Chain and Transformative Community Development.

MAVUTO TEMBO, PhD; MSc; BSc

RESEARCH INTERESTS

- Effects of climate change
- Geographical information systems

Title of PhD Thesis

A dynamic assessment of adaptive capacity to climate change: A case study of water management in Makondo, Uganda

JOURNAL PUBLICATIONS

Mkandawire, J. C., **Tembo, M.**, Nhlema, M., Luhanga, J. and Holm, R. H. (2019), “Do rope and washer pumps provide safe water and satisfied users? A case study piloting new rural water supply technology in Rumphi District, Malawi”, *Water SA*, Vol. 45 No. 3, pp. 456 - 463.

Samikwa, E., Kapute, F., **Tembo, M.**, Phiri, T. and Holm, R. H. (2019), “Identification of critical control points using water quality as an indicator of hygiene for artisanal fisheries on Lake Malawi”, *Lakes & Reservoirs: Science, Policy and Management for Sustainable Use*, Vol. 24, pp. 3-12.

Holm, R. H., Kamangira, A., **Tembo, M.**, Kasulo, V., Kandaya, H., Gijs Van Enk, P. and Velzeboer, A. (2018), “Sanitation service delivery in smaller urban areas (Mzuzu and Karonga, Malawi)”, *Environment & Urbanization*, Vol. 30 No. 2, pp. 597-612.

DEPARTMENT OF BUILT ENVIRONMENT

The Department of the Built Environment was previously called Land Management Department. The department runs three programmes: Urban and Regional Planning (previously called Physical Planning), Land Surveying and Estates Management. The department offers undergraduate, post-graduate and short courses. The Department also runs a seminar series that is held the last Friday of each month. The seminars allow academics from across the world to present research results or practical experiences that are relevant to the global south. The department has strong ties with the Ministry of Lands, Housing and Urban Development (MLHUD); Department of Environmental Affairs; the Department of Disaster Management Affairs (DoDMA) and Mzuzu City Council. With funding from the German Academic Exchange Programme (DAAD), the department is currently running a 4-year (2018-2021) staff-student exchange programme with Nuertingen-Geislingen University.

VISION

To be a premier provider of tertiary education, applied research and outreach in Estate Management, Land Surveying and Urban and Regional Planning that contributes to global sustainable development goals.

MISSION

To produce high quality professionals through education, training, research and outreach services to meet the technological, social and economic needs of Malawi and the global south.

RESEARCH ACTIVITIES

Academic staff in the Department of Built Environment undertake research in the following areas: urban and regional planning, estates management and land surveying. . Profiles of academic staff within the department are listed below:

AMOS KALUA, MSc; BSc

RESEARCH INTERESTS

- Building practices in developing countries
- Building advocacy

JOURNAL PUBLICATIONS

Kalua, A., Jeong Jo, S., Fateminasab, S., Al-Rqaibat, S. and Opitz, C. (2019), “Impact of ventilation method on residential indoor PM dispersion during dust storm events in Saudi Arabia”, *Journal of Architectural Engineering and Design Management*,

DOI: <https://www.tandfonline.com/doi/full/10.1080/17452007.2019.1652797>

LOUDON LUKA, MA; PgD; B. Ed

RESEARCH INTERESTS

- Planning law
- Land reform in Africa
- Regional Planning
- Climate change and Cities
- Urban Governance

Title of Master's Dissertation

A critique of the urban villages policy for Melbourne, Australia

CONFERENCE PAPERS

Luka, L. Urbanisation challenges in Malawi. Paper presented at the Planning Africa Conference held in Cape Town on 17 October 2018.

Bakera, A.T, **Luka, L.** and Malele, V. Contemporary teaching methods in civil engineering education. Paper presented at the Innovation, Science, Engineering and Education (ISEE) Africa Conference, Nairobi, Kenya, 1 February 2019.

MTAFU MANDA, PhD; MSc; PgD (Housing); PgD (Pop); B. Soc. Sc.

RESEARCH INTERESTS

- Urban informality
- Urban and rural housing
- Land tenure reform
- Disaster risk management
- Environmental sustainability

Title of PhD Thesis

Understanding the context of informality: urban planning under contradictory land tenure systems in Mzuzu, Malawi

BOOK CHAPTER PUBLICATIONS

Allen, A., Koroma, B., **Manda, M.**, Osuteye, E. and Lambert, R. (2019), “Urban risk readdressed: Bridging resilience-seeking practices in African cities”, in Burayid, M.A., Allen, A., Twigg, J. and Wamsler, C. (Eds), *The Routledge Handbook of Urban Resilience*, London: Routledge.

JOURNAL PUBLICATIONS

Dodman, D., Adelekan, I., Brown, D., Hayley, L., **Manda, M.**, Mberu, B., Pelling, M., Rusca, M., Satterthwaite, D. and Taylor, F. (2018), “A Spectrum of Methods for a Spectrum of Risk: Generating Evidence to Understand and Reduce Urban Risk in Sub-Saharan Africa”, *Area*, Vol. 51, pp. 586 - 594.

Hayley, L., Pelling, M., Adelekan, I., Dodman, D., Issaka, H., Johnson, C., **Manda, M.**, Mberu, B., Nwokocha, E., Osuteye, E. and Boubacar, S. (2018), “Towards Risk-Sensitive and Transformative Urban Development in Sub Saharan Africa”, *Sustainability*, Vol 10 No 2645, pp.1-21.

ISAAC MATIDZA, MBA; BSc.

Orchid ID: <https://orcid.org/0000-0001-7928-391X>

RESEARCH INTERESTS

- Estate Agency and Marketing
- Property Economics
- Real Estate Valuations
- Property Taxation
- Consumer Behaviour

Title of Master's Dissertation

The impact factors on consumer purchase decision in Estate Agency Industry in Malawi

JOURNAL PUBLICATIONS

Manda, M. and **Matidza, I.** (2017), “Tracer study of Mzuzu University Land Management Students, 2010-2015”, *Education and Society in Southern Africa*, Vol. 3 No 3, pp.45-67.

FELIX TEMBO, MSc; BSc

RESEARCH INTERESTS

- Climate Change
- Land Surveying

Title of Master’s Dissertation

The impact of climate change and adaptation among teff farmers in Ethiopia: Evidence from farm households in South Tigray

JOURNAL PUBLICATIONS

Tembo F., Tewodros, T. and Singini, W. (2018), “Perceptions and choices of adaptation measures for climate change among teff farmers of Southeast Tigray, Ethiopia”, *Journal of Agricultural Extension and Rural Development*, Vol. 10 No. 1, pp. 11 - 19.

Tembo, F. (2018), “The impact of climate change on teff production in Southeast Tigray, Ethiopia”, *Journal of Agricultural Economics and Rural Development*, Vol. 4 No. 1, pp. 389 - 396.

DEPARTMENT OF FISHERIES AND AQUATIC SCIENCES

MISSION

To strengthen the fisheries sector by concentrating on capture fisheries in Lake Malawi, other major lakes and rivers by emphasizing hands-on-experience so that its graduands are not only relying on employment but can also set up their own fisheries businesses, with a minor focus on aquaculture.

RESEARCH AREAS

Members of staff in the Fisheries Department are involved in carrying out research in areas that include the following: capture fisheries, aquaculture development, fish quality and value addition. Profiles and research interests of staff are listed below.

ELIAS CHIRWA, MSc; B (Ed)

ORCID ID: orcid.org/0000-0002-2736-5822

RESEARCH INTERESTS

- Fisheries management
- Limnology
- Freshwater biology

Title of Master's Dissertation

*Biodiversity in the coastal zone: Morphological characterisation of *Tilapia guineensis* (Bleeker, 1862) populations from Africa (Teleostei: Cichlidae)*

JOURNAL PUBLICATIONS

Chirwa¹, E.R., Kassam, D., Jere, W.L. and Mtethiwa, A. (2019), “Effects of common carp and African catfish on plankton, periphyton, benthic macroinvertebrates in pond ecosystem”, *Aquatic Biology*, Vol. 28, pp. 91- 100.

Chirwa, E.R. and Chilima, L. (2018), “Creating a forest landscape restoration movement in Africa: A call to heal planet earth”, *Nature & Faune*, Vol. 32, No. 1, pp. 54-58.

ROBERT ISRAEL JERE, MSc; BSc; Dip. (Agric.)

RESEARCH INTERESTS

- Aquaculture economics
- Fisheries extension and development

JOURNAL PUBLICATIONS

Phiri, F., Singini, W., Kapute, F. and **Jere, B.** (2018), “Effect of linear and non-linear estimation of fish mortality on feed conversion rate and economic profitability of *Oreochromis Shiranus* in cages”, *Annals of Reviews and Research*, Vol. 3 No. 3, pp. 1-6.

FANUEL KAPUTE, PhD; MSc; BSc; Dip.

RESEARCH INTERESTS

- Fish processing
- Quality management

Title of PhD Thesis

*Quality and risk assessment of whole fresh Lake Malawi Chambo (*Oreochromis nyasalapia species*)*

Title of Master's Dissertation

*Comparative reproductive biology, age and growth of *Oreochromis (Nyasaland) Karongae* (Trewavas) from five ecological zones of Lake Malawi*

JOURNAL PUBLICATIONS

Samala, L. and **Kapute, F.** (2019), "Assessment of Fish Exports from Blantyre District, Southern Malawi", *LIMNOFISH: Journal of Limnology and Freshwater Fisheries Research*, Vol. 5 No. 1, pp. 70-75.

Samikwa, E., **Kapute, F.**, Tembo, M., Phiri, T. and Holm, R. H. (2019), "Identification of critical control points using water quality as an indicator of hygiene for artisanal fisheries on Lake Malawi", *Lakes & Reservoirs: Science, Policy and Management for Sustainable Use*, Vol. 24, pp. 3-12.

Kapute, F. (2018), "The role of the Liwonde National Park in conserving fish species diversity in the upper Shire River, Malawi", *Aquatic Ecosystem Health & Management*, Vol. 21 No. 2, pp. 132-138.

Makawa, Z., Kaunda, E. and **Kapute, F.** (2019), "Wood utilization efficiency and acceptability of fried and smoked fish from Lake Malawi", *African Journal of Food, Agriculture, Nutrition and Development*, Vol. 19 No. 2, pp. 14432-14457.

Makwinja, R., Singini, W., Kaunda, E., **Kapute, K.** and M'balaka, M. (2018), "Stochastic modelling of Lake Malawi *Engraulicypris sardella* (Gunther, 1868) catch fluctuation", *International Journal of Fisheries and Aquaculture*, Vol. 10 No. 4, pp. 34-43.

Mbamba, D., Valeta, J., Harawa, D., **Kapute, F.**, Singini, W. and Mzengereza, K. (2018), "Profitability analysis of value added usipa (*Engraulicypris sardella*) by packaging in Nkhosha, Malawi", *Journal of Ecology & Natural Resources*, Vol. 2 No.3, DOI: 10.28933/ajmrr-2018-04-3001

Mchazime, I. and **Kapute, F.** (2018), "Sensory and nutrient quality of wild captured *Oreochromis shiranus* (Boulenger, 1897) stored at ambient temperature", *International Food Research Journal*, Vol. 25 No. 1, pp. 127-132.

Mgwede, C.W., Msiska, O. and **Kapute, F.** (2018), "Comparative assessment of microbiological safety of fresh and parboiled *Engraulicypris sardella* (Usipa) from selected selling points in the city of Mzuzu, Malawi", *MOJ Food Process Technology*, Vol. 6 No. 4, pp. 355-360.

Msuku, L. and **Kapute, F.** (2018), “Effect of smoking and sun drying on proximate composition of diplotaxodon fish species (ndunduma) from Lake Malawi, Malawi”, *African Journal of Food, Agriculture, Nutrition and Development*, Vol. 18 No. 1, pp. 12975-12991.

Phiri, F., Singini, W., **Kapute, F.** and Jere, B. (2018), “Effect of Linear and Non-Linear Estimation of Fish Mortality on Feed Conversion Rate and Economic Profitability of Oreochromis shiranus in Cages”, *Annals of Reviews and Research*, Vol. 3 No. 3, pp. 1-6.

Sinyangwe, B.G., Chirwa, E.R., Mzengereza, K., **Kapute, F.**, Singini, W., Chirwa, B.B., Kondowe, B., Zidana, H. and Jere, B. (2017), “Effect of varying dietary protein level and stocking density on growth performance, survival and feed utilisation of African catfish (Clarias Gariepinus - Burchell, 1822)”, *Insights in Aquaculture and Biotechnology*, Vol.1 No.2, pp. 1-6.

WALES SINGINI, PhD; MSc; BSc.

RESEARCH INTERESTS

- Fisheries management (Bioeconomic and Stock Assessment)
- Research methods
- Biostatistics,
- Project management

Title of PhD Thesis

Bioeconomic analysis of Chambo and Kambuzi fish stocks of Lake Malombe

Title of Master's Dissertation

Age, growth and reproductive biology of lethrinos gossei in the South-East Arm of Lake Malawi

JOURNAL PUBLICATIONS

Banda, R., Phiri, T.B. and **Singini, W.** (2019), "Assessment of catch composition and economic analysis of monofilament and multifilament under-meshed gears (Ngongongo) at Likoma Island, Lake Malawi", *Journal of Fisheries Research*, Vol. 3 No. 1, pp.7-17.

Mmanga, M., **Singini, W.**, Di Bella, V., Flaherty, M. G. and Holm, R.H. (2019), "Unpacking healthcare waste management at rural village health clinics in Ntcheu District (Malawi)", *Environmental Monitoring and Assessment*, Vol. 191 No. 175. <https://doi.org/10.1007/s10661-019-7306-6>

Biran, A., Danquah, L., Chunga, J., Schmidt, W., Holm, R., Itimu-Phiri, A., **Singini, W.**, Jones, H., Kuper, H. and White, S. (2018), "A cluster-randomized trial to evaluate the impact of an inclusive, community-led total sanitation intervention on sanitation access for people with disabilities in Malawi", *American Journal of Tropical Medicine and Hygiene*, pp 1-20. <https://doi.org/10.4269/ajtmh.17-0435>

Kasulo, V., Holm, R., Tembo, M., **Singini, W.** and Mchenga, J. (2018), "Enhancing sustainable sanitation through capacity building and rural sanitation marketing in Malawi", *Environment, Development and Sustainability*, Vol. 22, pp. 201-215.

Limuwa, M., **Singini, W.**, and Storebakken, T. (2018), "Is fish farming an illusion for Lake Malawi Riparian communities under environmental Changes?", *Sustainability*, Vol. 10, No. 5, pp. 1-23.

Phiri, F., **Singini, W.**, Kapute, F. and Jere, B. (2018), "Effect of linear and non-linear estimation of fish mortality on feed conversion rate and economic profitability of *Oreochromis Shiranus* in cages", *Annals of Reviews & Research*, 2018; Vol. 3No. 3, pp. 555-606.

Makwinja, R., **Singini, W.**, Kaunda, E., Kapute, K. and Mbalaka, M. (2018), "Stochastic modelling of Lake Malawi *Engraulicypris sardella* (Gunther 1868) catch fluctuation", *International Journal of Fisheries and Aquaculture*, Vol. 10 No. 4, pp 34-43.

Mbamba, D., Valeta, J., Harawa, D., Kapute, F., **Singini, W.** and Mzengereza, K. (2018), “Profitability analysis of value added usipa (*Engraulicypris sardella*) by packaging in Nkhosha, Malawi”, *Journal of Ecology & Natural Resources*, Vol. 2 No. 3.

Phiri, F., **Singini, W.**, Kapute, F. and Jere, B. (2018), “Effect of linear and non-Linear estimation of fish mortality on feed conversion rate and economic profitability of *Oreochromis shiranus* in cages”, *Annals of Reviews and Research*, Vol. 3 No. 3, pp. 1-6.

Tembo, F., Tadesse, T. and **Singini, W.** 2018), “Perceptions and choices of adaptation measures for climate change among teff (*Eragrostis tef*) farmers of Southeast Tigray, Ethiopia”, *Journal of Agricultural Extension and Rural Development*, Vol.10 No. 1, pp. 11-19.

CONFERENCE PAPERS

Singini W. and Kasulo V. Bioeconomic options and sustainable value chains for rational exploitation of fisheries resources along Lake Malawi. Paper presented at the sixth African higher education week and RUFORUM biennial conference held at the Kenya International Conference Centre, Nairobi from 22- 26 October, 2018.

Amosi,N., Kasulo,V., **Singini, W.**, Luhanga, L.and Munthali, C. Relationships of baobab products traders and their value shares in Malawi. Paper presented at the sixth African higher education week and RUFORUM biennial conference held at the Kenya International Conference Centre, Nairobi from 22 - 26 October, 2018.

Mohammed, E.M.A., **Singini, W.**, Kang’ombe, J. and Kassam, D. Effects of different types and levels of binding agents on stability and nutritional availability of formulated diets in *Oreochromis shiranus* (PISCES: *CICHLIDAE*). Paper presented at the sixth African higher education week and RUFORUM biennial conference held at the Kenya International Conference Center, Nairobi from 22 - 26 October, 2018.

Banda, J., Chigwechokha, P., **Singini, W.**, Kamanula, J., Msiska,O.V. and Simbeye, J. The nutrition, microbial and sensory quality of solar tent dried and open sun dried *Diplotaxodon* species (ndunduma) Pisces; *Cichlidae*. Paper presented at the AU Food Safety Conference Nairobi Kenya from 20-21 April, 2018.

Banda, J., Chigwechokha, P., **Singini, W.**, Kamanula, J., Msiska, O.V. and Simbeye,J. The shelf life of solar tent dried and open sun dried *Diplotaxodon Limnothrissa* (Ndunduma) Pisces; Cichlidae. Paper presented at the Academy of Science of South Africa (ASSAf), The World Academy of Sciences Regional Office for sub Saharan Africa (TWAS-ROSSA) and the American Association for the Advancement of Science (AAAS) Regional conference on science diplomacy held in South Africa at the Zebra Country Lodge from 21 - 25 May 2018.

DEPARTMENT OF FORESTRY AND ENVIRONMENTAL MANAGEMENT

MISSION

The mission of the Department of Forestry and Environmental Management is to ensure the application of sound technical and scientific knowledge to forestry development in Malawi through research, teaching and dissemination of knowledge and provision of expert services.

RESEARCH ACTIVITIES

Research activities of academic staff within the Department of Forestry and Environmental Management falls within the area of forest science, social forestry, forest engineering, forest and environmental Management.

VICTOR KASULO, PhD; MA; B Soc

ORCID ID: 0000-0003-4534-2162

RESEARCH INTERESTS

- Environmental and ecosystems management
- Bioeconomic management of natural resources
- Resource valuation and accounting
- Biodiversity conservation and management
- Mitigation and adaptation to climate change

Title of PhD Thesis

Bio-economic management of aquatic ecosystems for the conservation and sustainable utilisation of biodiversity

Title of Master's Dissertation

Determinants of manufactured exports in Malawi

JOURNAL PUBLICATIONS

Holm, R. H., Kamangira, A., Tembo, M., **Kasulo, V.**, Kandaya, H., Gijs Van Enk, P. and Velzeboer, A. (2018), "Sanitation service delivery in smaller urban areas (Mzuzu and Karonga, Malawi)" *Environment & Urbanization*. DOI: 10.1177/0956247818766495.

Holm, R., Kamangira, A., **Kasulo, V.**, Kaponda, P., Hara, E., Carney-Filmore, C., Nhlema, M. (2017), "The handpump choice is yours: A pilot study in Rumphu District, Malawi", *Waterlines*, Vol. 36 No. 4, pp. 358-366.

Singini, W., Kaunda, E., **Kasulo, V.**, and Jere, W. (2017), "Factors influencing Intertemporal Preference of Fisheries Resource Users of Lake Malombe in Malawi", *Malawi Journal of Agriculture, Natural Resources and Development Studies* (MAJANDS) SPECIAL ISSUE JAN 2017, pp. 75-80.

ELISHA STEPHEN NGULUBE, MSc, BSc

ORCID ID: 0000 – 0001 – 5394 - 6690

RESEARCH INTERESTS

- Forest machine – soil interactions
- Timber harvesting productivity and cost analyses
- Natural resources modelling

Title of Master’s Dissertation

Prediction of timber harvesting productivity for semi-mechanised systems in Viphya forest plantations, Malawi.

JOURNAL PUBLICATIONS

Malata, H., **Ngulube, E.S.** and Missanjo, E. (2017), “Site specific stem volume models for *Pinus patula* and *Pinus oocarpa*”, *International Journal of Forestry Research*.

DOI: 10.1155/2017/3981647.

Shekwa, A., Chirwa, P., **Ngulube, E.** and Ghebremariam, T. (2017), “Productivity, efficiency and costs of manual saw and electric shear pruning operations in *Pinus elliottii* stands of Mpumalanga, South Africa”, *International Journal of Forest Engineering*, Vol. 28 No. 3, pp. 169-175.

DOI: 10.1080/14942119.2017.1337462.

DEPARTMENT OF WATER RESOURCES MANAGEMENT AND DEVELOPMENT

The Department of Water Resources Management and Development was established in 2006. It offers courses in sanitation and water resources management and development at undergraduate and postgraduate levels. The Department has partnered with both public and private sector players such as Northern Region Water Board, Department of Irrigation and Water Resources (in the Ministry of Water Development), World Vision, Water for People, Pump Aid, and Water Aid in the implementation of various strategies that lead to the enhancement of water quality and sanitation.

Vision

To become a leading School for Water and Sanitation Sciences in the country and beyond that effectively provides training, consultancy and research needs of the industry and communities.

Mission

To provide skill enhancing opportunities to Malawians and others through the acquisition of professional knowledge, technical and practical skills in the water and sanitation sector, research on the development of innovative and sustainable provisions of water and sanitation services.

RESEARCH AREAS

The Department's research activities are in the field of water and sanitation, water supply, environmental protection, irrigation, water resources planning, water harvesting and agricultural water management. Listed below are the profiles and research publications by members of staff in the department.

RUSSEL C.G. CHIDYA, PhD; MSc; BSc

RESEARCH INTERESTS

- Water, Sanitation and Hygiene (WASH)
- Environmental chemistry
- Waste Management and Treatment
- Integrated Water Resources Management (IWRM)
- Water and Soil Quality Assessment and Contamination

Title of PhD Thesis

Modelling, dynamics and spatio-temporal assessment of pesticide residues and heavy metals in environmental samples from Seto Inland Sea and Kurose River, Japan.

Title of Master's Dissertation

Assessment of water quality in Likangala River and its Catchment Area in Zomba, Malawi.

JOURNAL PUBLICATIONS

Chidya, R. C., Singano, L., Chitedze, I. and Mourad, K. A. (2019), “Standards Compliance and Health Implications of Bottled Water in Malawi”, *International Journal of Environmental Research and Public Health*, Vol. 16 No. 6, 951. <https://doi.org/10.3390/ijerph16060951>

Derbalah, A., Sunday, M., **Chidya, R.**, Jadoon, W. and Sakugawa, H. (2019), “Kinetics of photocatalytic removal of imidacloprid from water by advanced oxidation processes with respect to nanotechnology”, *Journal of Water & Health*, Vol. 17 No. 2, pp. 254 - 265.

Khaled, A.A.A., El-Shawy, E.E.A., Hafez, Y.M., Abdel-Dayem, S.M.M.A., **Chidya, R.C.G.**, Saneoka, H. and Sabagh, A.E. (2019), “Nano-silver and non-traditional compounds mitigate the adverse effects of net blotch disease of barley in correlation with up-regulation of antioxidant enzymes”, *Pakistan Journal of Botany*, Vol. 52No. 3. DOI: 10.30848/PJB2020-3(13)

Chidya, R.C.G., Sherif, M.A., Takeda, K. and Sakugawa, H. (2018), “Spatio-temporal variations of selected pesticide residues in the Kurose River in Higashi-Hiroshima city, Japan”, *Journal of Environmental Science and Health Part. B*, Vol.53 No. 9, pp. 602-614.

Derbalah, A., **Chidya, R.**, Waqar Jadoon, W., Sakugawa, H. (2018), “Temporal trends in organophosphorus pesticides use and concentrations in river water in Japan, and risk assessment”, *Journal of Environmental Sciences*. <https://doi.org/10.1016/j.jes.2018.11.019>.

Takeda, K., Nojima, H., Kuwahara, K., **Chidya, R. C.**, Adesina, A. O. and Sakugawa, H. (2018), “Nanomolar Determination of Hydrogen Peroxide in Coastal Seawater Based on the Fenton Reaction with Terephthalate”, *Analytical Sciences*, Vol. 34 No. 4, pp. 459 - 464.

Jadoon, W.A., Khpalwak, W., **Chidya, R.C.G.**, Abdel-Dayem, S.M.M.A., Takeda, K., Makhdoom, M.A. and Sakugawa, H. (2018), "Evaluation of Levels, Sources and Health Hazards of Road-Dust Associated Toxic Metals in Jalalabad and Kabul Cities, Afghanistan", *Archives of environmental contamination and toxicology*, Vol. 74 No. 1, pp. 32 - 45.

CONFERENCE PAPERS

Chidya, R. C., Singano, L., Chitedze, I. and Mourad, K. A. Quality of bottled drinking Water sold in Lilongwe City (Malawi): Standards compliance and health implications. Paper presented at the National Water Conference & Exhibition held at the Crossroads Hotel, Blantyre in Blantyre Malawi from 20th - 21st Mar, 2019.

Ngoma, W., Hoko, Z., Misi, S. and **Chidya, R.C.G.** Efficiency assessment of a Decentralised Mzuzu University Wastewater Treatment Plant in Mzuzu, Malawi. Paper presented at the National Water Conference & Exhibition held at the Crossroads Hotel, Blantyre in Blantyre Malawi from 20-21 Mar, 2019.

Chidya, R.C.G., Abdel-dayem, S.M., Kaonga, C.C., Takeda, K. and Sakugawa, H. Ecological and human health risk assessment of pesticides in Kurose River, Higashi-Hiroshima city (Japan). Paper Presented at the Geochemical Society of Japan Annual meeting held at the University of the Ryukyus in Japan from 11 - 13th September, 2018.

Abdel-dayem, S.M., **Chidya, R.C.G.**, Kaonga, C.C., Takeda, K. and Sakugawa, H. Determination of pesticide residues in natural waters using sensitive and selective validated SPE-HPLC-UV Vis method. Paper presented at International Conference on Applied Agricultural Sciences and Prospective Technology (ICASPT) Luxor-Egypt from 23 - 26 February, 2018.

Chidya, R.C.G., Abdel-dayem, S.M., Takeda, K. and Sakugawa, H. Spatial Studies and Risk Assessment of Selected Pesticide Residues in Marine Samples from the Seto Inland Sea, Japan. Paper presented at the 2018 Ocean Sciences Meeting (OMS) at Oregon Convention Center in Portland City, Oregon State (USA) from 11 - 16th February, 2018.

MPHATSO MALOTA, MSc; BSc

RESEARCH INTERESTS

- Water quality assessment
- Water harvesting
- Agricultural water management

Title of Master's Dissertation

An assessment of shallow water tables and the development of appropriate drainage design criteria for sugarcane in Pongola, South Africa

JOURNAL PUBLICATIONS

Malota, M and Mchenga J. (2018), "Matching soil salinization and cropping systems in communally managed irrigation schemes", *Journal of Applied Water Science*, Vol. 8 No. 14. <https://doi.org/10.1007/s13201-08-0670-5>

Stedman, S., Mnyimbiri, M.A., Kawonga, Z, **Malota M**, Njera D, Hall, R, Holm, R. (2018), "Using irrigation to kick-start multiple use water services for small-scale farmers in Malawi: A case study of Nkhata Bay District", *Journal of Irrigation and Drainage*. DOI:10.1002/ird.2282

Zaunda, H, Holm, R, Itimu-Phiri, A, **Malota, M**, White, S. (2018), "A qualitative assessment of disability friendly water and sanitation facilities in primary schools, Rumphi, Malawi", *Journal of Development Southern Africa*, <https://doi.org/10.1080/0376835X.2018.1461610>

FACULTY OF SCIENCE, TECHNOLOGY AND INNOVATION

The Faculty of Science, Technology and Innovation (FTI) is one of the six faculties that emerged following the restructuring of the University programmes in 2017. The Faculty currently comprise of six academic departments namely Mathematics and Statistics, Biological Sciences, Physics and Electronics, Chemistry, Energy Systems, and Information and Communications Technology.

The Faculty of FTI offers a number of academic programmes at undergraduate and postgraduate levels. Departments falling under the faculty of FTI also service other departments within the University, particularly those that require their students to have good grounding in the basic sciences. The Faculty has further taken a leading role in spearheading outreach functions of the University by carrying out trainings that facilitate information and skill transfer to community members through a number of short courses.

RESEARCH AREAS

Members of staff within the faculty of FTI carry out research in the fields of Agro-Biodiversity, ICT for development, energy efficiency and conservation, codes and cryptography, solid state Physics, and telecommunications, among others. Much of the research output has been presented at conferences locally and internationally whilst some has been published in books and journals.

DEPARTMENT OF BIOLOGICAL SCIENCES

The Department of Biological Sciences is affiliated to the Faculty of Technology and Innovation. Besides servicing other departments, the Department runs a number of undergraduate degree programmes.

RESEARCH ACTIVITIES

Staff within the department conduct research related to conservation and management of biodiversity for environmental and human wellbeing, sustainable utilisation of biological diversity and Agro-Biodiversity.

McLENELIOUS CLEMENT CHIMENYA, MSc; BEd Sc. (Hons); BEd Sc.; DipEd Sc.

RESEARCH INTERESTS

- Distribution, diversity and status of small wild mammals
- Distribution, diversity and status of wild birds.

Title of Master's Dissertation

*Genetic Population Structure of **Oreochromis mossambicus** in the Lower Shire River System*

JOURNAL PUBLICATIONS

Chimenya, M.C., Changadeya, W.J. and Ambali, A.J.D. (2013), "Genetic diversity and population structure of **Oreochromis mossambicus** in the Lower Shire river system of Malawi", *International Journal of Research in Social Sciences (IJRSS)*, Vol. 3 No. 4.

Changadeya, W., Ambali, A., Kabwazi, H., Kafumbata, D., **Chimenya, M.C.** and Phiri, M., H. (2000), "The Status of Lagoon Fishery in Nkhota-Kota District, Malawi", *Malawi Journal of Science and Technology*, Vol. 6, pp. 3-9.

Kafumbata, D., Ambali, A., Kabwazi, H., Changadeya, W., Phiri, M. and **Chimenya, M.C.** (2000), "Chasing the Chambo in Southern Lake Malawi: Does Molecular Genetics Have a Role to Play in the Management of the Stocks?" *Malawi Journal of Science and Technology*, Vol. 6, pp. 71-79.

CONFERENCE PAPERS

Chimenya, M.C., Ambali, A., Kabwazi, H., Kafumbata, D. and Changadeya, W. (2000), "Status of the Lower Shire Fishery: Are the Tilapia Populations in a Stable State? Research and Development: Challenges of a New Millennium", *Research and Publications Committee, University of Malawi. Sixth Conference Proceeding*, p. 60.

Changadeya, W., Ambali, A., Kabwazi, H., Phiri, M., H., **Chimenya, M.C.** and Kafumbata, D. (2000), "Population structure of **Taeniolethrinops praeobitalis** (Regan) in the Southeast and Southwest Arms of Lake Malawi. Research and Development: Challenges of a New Millennium", *Research and Publications Committee, University of Malawi. Sixth Conference Proceeding*, p. 61.

Kabwazi, H., Ambali, A., Changadeya, W., **Chimenya, M.C.** Kafumbata, D. and Phiri, M., H., (2000), "Potential and Sustainable Utilisation of Fish Resources in Malawi. A Genetic Approach: Research and Development: Challenges of a New Millennium", *Research and Publications Committee, University of Malawi. Sixth Conference Proceeding*, p. 63.

Ambali, A., Kabwazi, H., Changadeya, W., Kafumbata, D., **Chimenya, M.C.** and Phiri, M. (2000), "The Potential and Threats of Lagoon Fishery in Nkhota-Kota District. Research and Development: Challenges of a New Millennium", *Research and Publications Committee, University of Malawi. Sixth Conference Proceeding*, p. 64.

Chimenya, M.C., (2001), "Genetic Population Structure of **Oreochromis mossambicus** in the Lower Shire River. Lake Malawi Fisheries Management Symposium (LMFMS)", *Conference Proceeding, Capital Hotel, Lilongwe.*

MASTER R. O. CHISALE, MSc; BSc (Biomed.)

RESEARCH INTERESTS

- Bacteriology
- Mycology
- Vaccine Development
- Virology
- Mycobacteriology

JOURNAL PUBLICATIONS

Hannigan, A., **Chisale, M.**, Drew, R., Watson, C. and Gallagher, J. (2019), “GP133 Mobile phones for follow up in paediatric clinical studies in Africa”, *Archives of Disease in Childhood*, Vol. 104, pp. 84.

Chitandale, E., Choonara, E., Mwenyephiri, G., Zulu, M., **Chisale, M.**, Kipandula, W. (2019), “Antibiotic resistance profiles of *Acinetobacter baumannii* isolates from surgical wound infections at Kamuzu Central Hospital in Malawi: A retrospective study”, *Int J Res Med Sci*, Vol. 7, pp. 3060-3065.

Chisale, M., Kusakala, G. and Kamudumuli, P.S. (2019), “The Prevalence of Bacterial Contamination in Transfusable Platelets in Lilongwe, Malawi”, *Acta Scientific Microbiology*, Vol. 2 No.10, pp. 12-16.

Chisale, M., Makuluni, M. and Kamudumuli, P.S. (2019), “Comparative assessment of microbial air contamination in labour and postnatal ward at Mzuzu central hospital”, *American Scientific Research Journal for Engineering, Technology, and Sciences (ASRJETS)*, Vol. No 1, pp. 110-118.

Glezeva, N., **Chisale, M.**, McDonald, K., Ledwidge, M., Gallagher, J. and Watson, C.J. (2018), “Diabetes and complications of the heart in Sub-Saharan Africa: An urgent need for improved awareness, diagnostics and management”, *Diabetes Research and Clinical Practice*, Vol. 137, pp. 10-19.

Chisale, M., Kumwenda, P., Ngwira, M., Chisale, M.R., Kumwenda, P., M'baya, B., Chosamata, B.I. and Mwapasa, V. (2015), “A pilot study to determine the normal haematological indices for young Malawian adults in Blantyre, Malawi”, *Malawi Medical Journal*, Vol. 27 No. 3, pp. 101-105.

CONFERENCE PAPER

Chisale, M., Tsung-ShuWu, J., Chipeta, M., Ngwira. Assessment of Knowledge on diet and lifestyle management among diabetic patients in the Northern Region of Malawi. Paper presented at the National Commission for AIDS (NAC)-College of Medicine (COM) Joint National Research Dissemination Conferences (22-23 November 2013).

PAUL MUTIYENKHU MUNYENYEMBE, PhD; MSc, BSc

RESEARCH INTERESTS

- Economic uses and ecological parameters of the legumes
- Indigenous knowledge systems and biodiversity utilization and conservation.
- Conservation and sustainable use of biodiversity
- Diversity, distribution and abundance of flora and fauna species in Malawi

Title of PhD Thesis

Biological Diversity of Species in the Leguminosae genus Dolichos L.

BOOK CHAPTER PUBLICATIONS

Munyenyebe, M.P. and E.Y. Sambo (1998), “The vegetation of Lake Chilwa”, in: Van Zegeren, K. and Munyenyebe, M.P. (eds.) *The Lake Chilwa Environment, a Report of the 1996 RAMSAR Site Study*: 39-71.

Sambo, E. and Munyenyebe, M. (1999), “Indigenous knowledge systems in the natural resources management plan for the Lake Chilwa Basin, Southern Malawi”, in: Caldwell, W. (ed.), *Issues and Responses: Land Use and Planning in Eastern and Southern Africa*, Harare, Weaver Press.

JOURNAL PUBLICATIONS

Chataika, B. Y. E., Bokosi, J. M., Kwapata, M. B., Chirwa, R. M., Mwale, V. M., Munyenyebe, P. and Myers, J. R. (2010), “Performance of parental genotypes and inheritance of Angular Leaf Spot (*Phaeosariopsis griseola*) resistance in the common bean (*Phaseolus vulgaris*)”, *African Journal of Biotechnology*, Vol. 9 No. 28, pp. 4398-4406.

Kwapata, K., Mwase, W.F., Bokosi, J.M., Kwapata, M.B. and Munyenyebe, P. (2007), “Genetic diversity of *Annona senegalensis* Pers. populations as revealed by simple sequence repeats (SSRs)”, *African Journal of Biotechnology*, Vol. 6 No. 10, pp. 1249-1247.

Munyenyebe, M.P. and Bisby, F.A. (1997), “The transfer of *Dolichos junodii* to *Nesphostylis* (Leguminosae)”, *Kew Bulletin*, Vol. 52 No. 3, pp. 689-692.

Armbruster, W.S., Edwards, M.E., Hines, J.F. Mahunnah, R.L.A. and Munyenyebe, P. (1993), “Pollination Ecology of *Dalechampia* species”, *National Geographic Research and Exploration*, Vol. 9 No. 4, pp. 460-474.

Munyenyebe, P. (1993), “Legume germplasm collection in the arid and semi-arid areas of Tanzania”, *FAO/IBPGR Plant Genetic Resources Newsletter*, Vol. 91/92, p. 65.

CONFERENCE PROCEEDINGS

Munyenyebe, M.P. (1994), “A new circumscription of the genus *Dolichos* L. (Leguminosae)”, in: van der Maesen, L.J.G., van der Burgt, X.M. and van Madenbach de Rooy, J.M. (eds.), *The Biodiversity of African Plants, Proceedings of The XIVth AETFAT Congress, 22 - 27 August 1994, Wageningen, the Netherlands*.

CONFERENCE PAPERS

Munyenyebe, P. Systematic and evolutionary relationships in the genus *Dolichos* L. (*Leguminosae*). Paper presented at the 3rd International Legume Conference, Royal Botanic Gardens, Kew, England, 12 - 17 July 1992.

Munyenyebe, M.P. The floral and pollination biology of *Dolichos* L. (*Leguminosae*). Paper presented at the 4th Research and Publications Committee Conference of the University of Malawi, 17-20 July 1995, Mangochi, Malawi.

Munyenyebe, M.P. and Qhobela, L.L. Human resource capacity in conservation and use of plant genetic resources in the SADC region: A review. Paper presented at the Fourth RUFORUM Regional Biennial Conference, Maputo, Mozambique, 21 - 25 July 2014.

SAUL ERIC MWALE, MSc; BSc

RESEARCH INTERESTS

- Molecular breeding for biotic and abiotic stresses
- Plant Pathology
- Molecular genetics
- Pharmacognosy

Title of Master's Dissertation

Genetics of drought tolerance in cowpea genotypes in Uganda

JOURNAL PUBLICATIONS

Valentor, A.O., Ochwo-Ssemakula, M., Kaweesi, T., Ozimati, A., Mrema, E., **Mwale, E.S.**, Gibson, P., Achola, E., Edema, R., Baguma, Y. and Kawuki, R. (2018), "Plot based heritability estimates and categorization of cassava genotype response to cassava brown streak disease", *Crop Protection*, Vol. 108, pp. 39 – 46.

MICHAEL MZIREKELENGE NKOSI, MSc; BSc

RESEARCH INTERESTS

- Animal Feed quality and safety
- Animal agriculture value chain development
- Poultry feeds and feeding
- Biodiversity assessments
- Animal reproductive physiology

Title of Master's Dissertation

Effects of Tethering and Buck Presence on Onset of Puberty in Female Malawian Goats

BOOK PUBLICATIONS

Nkosi, M.M. and Saiti, A. (2014) *Malawi Junior Certificate of Education Practice Biology I*, Blantyre, Malawi: Dzuka Publishers.

Nkosi, M.M. and Saiti, A. (2014) *Malawi Junior Certificate of Education Practice Biology 2*, Blantyre, Malawi: Dzuka Publishers.

Nkosi, M.M. and Saiti, A. (2014) *Malawi Junior Certificate of Education Biology Teachers' Guide*, Blantyre, Malawi: Dzuka Publishers.

JOURNAL PUBLICATIONS

Nkosi, M.M.; Safalaoh, A.C.L. Mtegha, C. (2018), "Prevalence and contamination levels of aflatoxins in dairy cattle feeds from milk bulking groups in Malawi", *African Journal of Rural Development*, Vol. 3 No. 3, pp.883-894.

TWALIBU NORMAN GRAYSON TANDWE, MSc; B Ed Sc. (Hons); Dip. Ed (Sc.).

RESEARCH INTERESTS

- Conservation Biology and Ecology
- Environmental pollution and Biodiversity
- Analytical biochemistry
- Habitats/Ecosystems quality (terrestrial and aquatic) assessment
- Solid/liquid organ waste Management

Title of Master's Dissertation

Effects of Aquaculture on quantity and quality of water in some selected streams/rivers in Zomba District, Malawi.

JOURNAL PUBLICATIONS

Kambwiri, W., Changadeya, W., Chimphamba, J. and **Tandwe, T.** (2014), “Land Use Impacts on Water Quality of Rivers draining from Mulanje Mountain: A Case of Ruo River in the Southern Malawi,” *Journal of Science and Technology*, Vol 10 No 1, pp. 15-31.

CONFERENCE PAPER

Manda, S.C., Munthali, E.R.Y., **Tandwe, T.**, Gondwe, D., Kamanula, J. and Manda, J.K.T. Analysis of antimicrobial activity of *Jatereorhiza palmate* root extract against *Escherichia coli*, *Salmonella, spp*, *Enterococcus faecalis* and *Staphylococcus aureus* bacteria species. Paper presented at the 22nd College of Medicine Research Dissemination Conference on Health Research for Preventing Illness and Improved Health Services in Malawi held at the College of Medicine, Mahatma Gandhi Campus in Blantyre from 23rd to 24th November, 2018.

Tandwe, T., Juwawo, P. and Kamanula, J. Assessment of Microbial Contamination of Ground Water from Protected and Un protected Shallow Wells in Mzuzu City. Paper presented at National Research Dissemination Conference on Research and Innovation: A catalyst for sustainable development held at Nkopola Lodge in Mangochi Malawi from 28th to 29th September, 2017.

Pemba, E.C. and **Tandwe, T.** Effect of Drying Methods on Nutritive Value of Three Consumed Mushrooms in Malawi (*Cantharellus cibarius*, *Cantharellus longisporus* and *Pleurotus ostreatus*). Paper presented at Food and Nutrition Research Dissemination Conference held at Bingu International Convention Center, Lilongwe on 27th October 2016.

DEPARTMENT OF ENERGY SYSTEMS

The Department of Energy Systems was established in September 2004. The Department offers courses in renewable energy technologies at undergraduate level. It also offers short training courses in the design and installation of renewable energy technologies. Profiles and research interests of staff are listed below.

RESEARCH ACTIVITIES

Members of staff in the Department of Energy Systems are actively involved in research, consultancy and publication activities. The research output of the department is in the areas of solar, wind, hydropower, geothermal, biomass and energy technologies for rural communities, energy efficiency and conservation, energy systems innovation and technology transfer approaches, energy systems modelling, energy economics and policies.

MAXON CHITAWO, PhD; MSc; BSc

ORCID id: 0000-0002-0603-9446

RESEARCH INTERESTS

- Bioenergy Systems
- Renewable and Sustainable Energy

Title of PhD Thesis

Systems approach in developing a model for sustainable production of bioenergy in Malawi

Title of Master's Dissertation

Biomass system design; full chain production for woodchip

JOURNAL PUBLICATIONS

Chitawo, M. L., Chimphango, A. F. and Peterson, S. (2018), "Modelling sustainability of primary forest residues-based bioenergy system", *Biomass and Bioenergy*, Vol. 108, pp. 90 -100.

ISAAC CHITEDZE, MSC; BSC

ORCID id: <https://orcid.org/0000-0002-0709-7541>

RESEARCH INTERESTS

- Energy systems modeling and simulation
- Energy economics and policies
- Financial modeling and evaluation
- Sustainable energy access planning
- Sustainable livelihoods and renewable energy development

Title of Master's Dissertation

Analysing Feed-in Tariff Policy to Accelerate Renewable Deployment and Electricity Access in Malawi

JOURNAL PUBLICATIONS

Chukwuemeka N. C., **Chitedze I.** and Khaldoon A. M. (2019), “An Econometric Analysis of the Macroeconomic determinants of Carbon Dioxide Emissions in Nigeria”, *Science of the Total Environment Journal*, Vol. 675, pp. 313-324.

Chidya, R.C.G., Singano, L., **Chitedze I.** and Mourad, K.A. (2019), “Standards Compliance and Health Implications of Bottled Water in Malawi”, *Int. J. Environ. Res. Public Health*, Vol. 16 No. 6, p. 951.

DEPARTMENT OF INFORMATION AND COMMUNICATION TECHNOLOGIES

The Department of Information and Communication Technologies offers programmes that equip graduates with requisite skills and knowledge to deliver services on the job market that transforms the ICT sector of the country and beyond. Besides teaching, the Department offers consultancy services on demand to the public and ICT sector. The Department also runs some projects that benefit the community in which it operates.

RESEARCH ACTIVITIES

The main focus of research by staff within the Department is in the areas of use of ICT for development, end-user computing, Information Systems, information security, Artificial Intelligence, Data Science, cloud computing, programming and use of mobile technologies.

CHIMANGO NYASULU, MSc; BSc

ORCID ID: <https://orcid.org/0000-0001-8838-2848>

RESEARCH INTERESTS

- eHealth
- Education Technology
- Natural Language Processing
- Machine Learning

Title of Master's Dissertation

Analyzing use of Information and Communication Technology in community health in Malawi

JOURNAL PUBLICATIONS

Chawinga, W. D., Chawinga, C., Kapondera, S. K., Chipeta, G. T., Majawa, F. and **Nyasulu, C.** (2019), "Towards e-judicial services in Malawi: Implications for justice delivery", *The Electronic Journal of Information Systems in Developing Countries*, e12121. <https://doi.org/10.1002/isd2.12121>.

Nyasulu, C., Chawinga, W. and Chipeta, G. (2019), "A tracer study of ICT graduate students at Mzuzu", *Mousaion*, Vol. 36 No. 3, pp. 1-19.

Nyasulu, C. and Chawinga, W.D. (2019), "Using the Decomposed Theory of Planned Behaviour to understand university students' adoption of WhatsApp in learning", *E-Learning and Digital Media*, Vol. 16 No. 5, pp. 413 - 429.

Nyasulu, C. and Chawinga, W.D. (2018), "The role of information and communication technologies in the delivery of health services in rural communities: Experiences from Malawi", *South African Journal of Information Management*, Vol. 20 No. 1, pp. 1-10.

EMMANUEL NGALANDE, MSc; BSc

ORCID ID: <https://orcid.org/0000-0002-3106-1645>

RESEARCH INTERESTS

- eHealth
- ICT4D
- Internet Applications
- Network Performance

Title of Master's Dissertation

Online Learning for Wireless Access Point Association; using Multi-Armed Bandit (MAB) models

JOURNAL PUBLICATIONS

Mastellos, N., Tran, T., Dharmayat, K., Dharmayat, K., Cecil, E., Lee, H., Wong, C.C.P., Mkandawire, W., **Ngalande, E.**, Wu, J.T., Hardy, V., Chirambo, B.G., O'Donoghue, J.M. (2018), "Training community healthcare workers on the use of information and communication technologies: a randomised controlled trial of traditional versus blended learning in Malawi, Africa", *BMC Med Educ*, Vol. 18. <https://doi.org/10.1186/s12909-018-1175-5>

CONFERENCE PAPERS

Kapondera, S.K. and **Ngalande, E.** Adoption of mobile technologies in Malawian academic libraries: The case of Mzuzu University library and learning resources centre. Paper presented at the Standing Conference of the Eastern, Central and Southern Africa Librarians and Institutions held in Swaziland, 25 to 29 April, 2016.

DEPARTMENT OF MATHEMATICS AND STATISTICS

The Department of Mathematics and Statistics is one of the oldest departments at Mzuzu University. It was founded in 1999, the year Mzuzu University was officially opened. It serves students in all the six faculties of the University.

RESEARCH ACTIVITIES

The Department of Mathematics and Statistics is engaged in research in various areas of Mathematics. Particular focus has so far been on Codes and Cryptography, Applied Statistics and Probability, Data science, and Mathematics Education.

ATIPATSA CHIWANDA KAMINGA, MSc (ITCC); BSc (Ed)

RESEARCH INTERESTS

- Statistics and Probability
- Theory applications to Medical Sciences
- Number Theory
- Geometry applications to Cryptography
- Coding Theory

Title of Master's Dissertation

Thesis Part-1: *Improved bound on the determinant of a Lattice with short vectors in the cryptanalysis of RSA with private key d less than $N^{0.292}$*

Thesis Part-2: *Subsets of Goppa codes whose dimension and minimum distance equal the minimum bounds*

JOURNAL PUBLICATIONS

Chen, L., Tang, L., Guo, S., Kaminga, A.C. and Xu, H. (2019), "Primary dysmenorrhea and self-care strategies among Chinese college girls: a cross-sectional study", *BMJ Open*, Vol 9 No. 9, Doi: 10.1136/bmjopen-2018-026813

Dem, K., Wu, Y., **Kaminga, A.C.**, Dai, Z., Cao, X. and Zhu, B. (2019), "The push out bond strength of polydimethylsiloxane endodontic sealers to dentin", *BMC Oral Health*, Vol 19 No. 181, Doi: <https://doi.org/10.1186/s12903-019-0867-5>

Pan, X., **Kaminga, A.C.**, Wen, S.W., Wu, X., Acheampong, K. and Liu, A. (2019), "Dopamine and Dopamine Receptors in Alzheimer's Disease: A Systematic Review and Network Meta-Analysis", *Frontiers in Aging Neuroscience*, Vol 11 No. 175, Doi: 10.3389/fnagi.2019.00175

Wang, Z., Wu, X., Dai, W., **Kaminga, A.C.**, Wu, X., Pan, X., Liu, Z., Wen, S., Hu, S., Liu, A. (2019), "The Prevalence of Posttraumatic Stress Disorder Among Survivors After a Typhoon or Hurricane: A Systematic Review and Meta-Analysis", *Disaster Medicine and Public Health Preparedness*, Vol 1 No. 9, Doi: 10.1017/dmp.2019.26

Acheampong, K., Nyamari, J.M., Ganu, D., Appiah, S., Pan, X., **Kaminga, A.** and Liu, A. (2019), "Predictors of Hypertension among Adult Female Population in Kpone-Katamanso District, Ghana", *International Journal of Hypertension*. Doi: 10.1155/2019/1876060

Acheampong, K., Baffour-Awuah, D., Ganu, D., Appiah, S., Pan, X., **Kaminga, A.** and Liu, A. (2019), "Prevalence and Predictors of Dysmenorrhea, Its Effect, and Coping Mechanisms among Adolescents in Shai Osudoku District, Ghana", *Obstetrics and Gynaecology International*. Doi: <https://doi.org/10.1155/2019/5834159>

Pan, X., Wu, X., **Kaminga**, A.C., Wen, S.W. and Liu, A. (2019), “Dehydroepiandrosterone and Dehydroepiandrosterone Sulfate in Alzheimer's Disease: A Systematic Review and Meta-Analysis”, *Frontiers in Aging Neuroscience*, Vol. 11 No. 61, pp. 1-12. Doi: 10.3389/fnagi.2019.00061.

Kaminga, A.C., Dai, W., Liu, A., Myaba, J., Banda, R. and Wen, S.W. (2019), “Effects of socio-demographic characteristics, premorbid functioning, and insight on duration of untreated psychosis in first-episode schizophrenia or schizophreniform disorder in Northern Malawi”, *Early Intervention in Psychiatry*, 1-10. Doi: <https://doi.org/10.1111/eip.12794>

Yang, G., Long, J., Luo, D., Xiao, S. and **Kaminga**, A.C. (2019), “The characteristics and quality of mobile phone applications targeted to men who have sex with men in China: a window of opportunity for health information dissemination?” *JMIR mHealth and uHealth*, Vol. 7 No. 3, e12573. Doi: 10.2196/12573.

Kaminga, A.C., Myaba, J., Dai, W., Liu, A., Chilale, H.K., Kubwalo, P.F., Madula, P., Banda, R., Pan, X. and Wen, S.W. (2019), “Association between referral source and duration of untreated psychosis in pathways to care among first episode psychosis in patients in Northern Malawi”, *Early Intervention in Psychiatry*, pp. 1 – 12. DOI: 10.1111/eip.12885.

Pan, X., **Kaminga**, A.C., Wen, S.W. and Liu, A. (2018), “Catecholamines in Post-traumatic Stress Disorder: A Systematic Review and Meta-Analysis”, *Frontiers in Molecular Neuroscience*, Vol. 11 No. 450, pp. 1-14. Doi: 10.3389/fnmol.2018.00450

Kaminga, A.C., Dai, W., Liu, A., Myaba, J., Banda, R., Wen, S.W. and Feng, X. (2018), “Rate of and time to symptomatic remission in first-episode psychosis in Northern Malawi: A STROBE-compliant article”, *Medicine (Baltimore)*, Vol. 97 No. 45, pp. 1-9.

Wu, X., **Kaminga**, A.C., Dai, W., Deng, J., Wang, Z., Pan, X. and Liu, A. (2018), “The prevalence of moderate-to-high posttraumatic growth: A systematic review and meta-analysis”, *Journal of Affective Disorders*, Vol. 243, pp. 408 – 415.

Madula, P., Kalembo, F.W., Yu, H. and **Kaminga**, A.C. (2018), “Healthcare provider-patient communication: a qualitative study of women's perceptions during childbirth”, *Reproductive Health*, Vol. 15, pp. 1-10.

Dai, W., Liu, A., **Kaminga**, A.C., Deng, J., Lai, Z. and Wen, S.W. (2018), “Prevalence of Posttraumatic Stress Disorder among Children and Adolescents following Road Traffic Accidents: A Meta-Analysis”, *Canadian Journal of Psychiatry*, Vol. 63 No. 12, pp. 798-808.

Dai, W., Liu, A., **Kaminga**, A.C., Deng, J., Lai, Z., Yang, J. and Wen, S.W. (2018), “Prevalence of acute stress disorder among road traffic accident survivors: a meta-analysis”, *BMC Psychiatry*, Vol. 18 No. 188. Doi:[10.1186/s12888-018-1769-9](https://doi.org/10.1186/s12888-018-1769-9)

Wang, T., Fu, H., **Kaminga**, A.C., Li, Z., Guo, G., Chen, L. and Li, Q. (2018), “Prevalence of depression or depressive symptoms among people living with HIV/AIDS in China: a systematic review and meta-analysis”, *BMC Psychiatry*, Vol. 18 No. 160. Doi:[org/10.1186/s12888-018-1741-8](https://doi.org/10.1186/s12888-018-1741-8).

KHUMBO KUMWENDA, PhD; MSc (ITCC); BSc (Ed)

ORCID id: 0000-0003-0833-9933

RESEARCH INTERESTS

- Error correcting codes
- Codes from graphs
- Mathematics Education

Title of PhD Thesis

Codes, graphs and designs related to iterated line graphs of complete graphs

Title of Master's Dissertation

Quasicyclic irreducible Goppa codes of length $q^n - 1$

JOURNAL PUBLICATIONS

Bau, S., Johnson, P., Jones, E., **Kumwenda, K.** and Matzke, R. (2018), “Rainbow connectivity in some Cayley graphs”, *Australasian Journal of Combinatorics*, Vol. 71 No. 3, pp. 381 - 393.

Fish, W., **Kumwenda, K.** and Mwambene, E. (2018), “PD-sets for the codes from incidence matrices of triangular graphs”, *Afrika Matematika*, Vol. 29. No. 5, pp. 753-759.

Kumwenda K. and **Musukwa A.** (2018), “A bipartite graph associated with irreducible elements and group of units in \mathbb{Z}_n ”, *International Journal of Applied Mathematics*, Vol 31 No. 1, 149-169.

NEPHTALE BVALAMANJA MUMBA, PhD; MSc; MSc; B Ed (Sc)

RESEARCH INTERESTS

- Coding Theory
- Graph Theory
- Combinatorics
- Group Theory

Title of PhD Thesis

Codes, graphs and designs from maximal subgroups of alternating groups

Titles of Master's Dissertations

Dissertation 1: *Codes and graphs from alternating groups an for n odd*

Dissertation 2: *The weight distribution of inequivalent Goppa codes*

JOURNAL PUBLICATIONS

Fish, W., **Mumba, N. B.**, Mwambene, E. and Rodrigues, B. G. (2019), “Binary codes and partial permutation decoding sets from biadjacency matrices of bipartite graphs $\Gamma(2k, k, k+1, 1)$ ”, *Quaestiones Mathematicae*, DOI: 10.2989/16073606.2019.1580227

Mumba, N. B. and Mwambene, E. (2018), “Automorphism groups of graph covers and uniform subset graphs”, *AKCE Int. J. Graphs Comb.*, Vol. 15 No. 1, pp. 27–33.

Mumba, N. B., Fish, W., Mwambene, E. and Rodrigues, B. G. (2017), “Binary codes and partial permutation decoding sets from biadjacency matrices of bipartite graphs $\Gamma(2k + 1, k, k + 2, 1)$ ”, *Graphs Combin.*, Vol. 33, pp. 357–368.

CONFERENCE PAPERS

Mumba, N. B. (2016), “Binary codes and partial permutation decoding sets from biadjacency matrices of bipartite graphs $\Gamma(2k, k, k + 1, 1)$ ”, *Proc. SAMS'16*, Cape Town, South Africa.

Mumba, N. B. (2013), “Codes, graphs and designs from Alternating groups A_n for n odd”, *Proc. SAMSA'13*, Cape Town, South Africa.

Mumba, N. B. (2010), “An efficient way of finding a particular solution of a differential equation”, *Proc. SAMSA'10*, Gaborone, Botswana.

Mumba, N. B. (2009), “Another approach to Goppa codes”, *Proc. IEEE AFRICON 2009*.

Mumba, N. B. (2009), “The uniqueness of Hamming codes”, *Proc. SAMSA'09*, Dar Es Salaam, Tanzania.

Mumba, N. B. (2008), “The weight distribution of inequivalent Goppa codes”, *Proc. SAMSA'08*, Maputo, Mozambique.

AUGUSTINE MUSUKWA, PhD; MSc (ITCC); BSc

RESEARCH INTERESTS

- Error correcting codes
- Goppa codes
- Cryptography
- Boolean functions and their applications in cryptography

Title of PhD Thesis

APN Boolean functions and their applications in cryptography

Title of Master's Dissertation

Enumeration of extended irreducible binary hexic Goppa codes of length 2^n+1

JOURNAL ARTICLES

Musukwa, A. (2019), "The number of extended irreducible binary Goppa codes of degree (2^m) and length $2n+1$ ", *Open Journal of Discrete Applied Mathematics*, Vol. 2 No.1, pp. 1 - 13.

Musukwa, A. (2018), "Counting extended irreducible binary Goppa codes of degree $2p$ and length 2^n+1 ", *Journal of Mathematical and Computational Science*, Vol 8 No 1, 1-17.

Kumwenda K. and **Musukwa A.** (2018), "A bipartite graph associated with irreducible elements and group of units in Z_n ", *International Journal of Applied Mathematics*, Vol 31 No. 1, 149-169.

FACULTY OF HEALTH SCIENCES

The Faculty of Health Sciences was established in 2006. It has three departments namely Nursing and Midwifery, Biomedical Sciences, and Optometry.

VISION

To be an academic centre of excellence in training health care professionals, research and outreach for quality service and socio-economic transformation for the people of Malawi and beyond.

MISSION

To produce highly qualified health professionals to address the critical shortage of human resource which has resulted from inadequate capacity of training institutions to produce the numbers of health workers required, through training, education, research and outreach in order to improve the health of Malawians.

RESEARCH ACTIVITIES

Academic staff within the Faculty are involved in a wide range of research activities and project works. These have yielded a lot of research output in terms of conference proceedings, journal articles and grey literature. The main thrust of research within the Faculty falls within the areas of public health, nursing education, and eye health.

DEPARTMENT OF BIOMEDICAL SCIENCES

The Department of Biomedical Sciences falls under the Faculty of Health Sciences, and was founded in 2007. The Department aims to produce high quality graduates who are equipped with the necessary skills to bridge the human resource gap existing in the health sector.

RESEARCH AREAS

Academic members of staff in the Department of Biomedical Sciences carry out research in the following fields: Molecular biology, host-pathogen interaction, and biotechnology

FELIX DAMBULA, MSc; BSc

RESEARCH INTERESTS

- Host-Pathogen interaction
- Molecular Biology of cancer
- Biotechnology

Title of Master's Dissertation

HIV-1 RNA and CD4⁺ cells as proxies for determination of treatment failure and drug adherence

JOURNAL PUBLICATIONS

Dambula, F and Makene V. A. (2016), "Extractibility of HIV-1 Pol-Integrase from plasma spots after 4 weeks of storage at room temperature", *AJSR*, Vol. 5 No. 2, pp. 2306 - 5877.

Dambula, F, Makene V. A., Wu J., and Kipandula W. (2016), "Evaluation of dried plasma spots in molecular quantification of HIV-1 RNA on Abbott real time Assay", *AJSR*, Vol. 5 No. 4, pp. 92 - 95.

PIZGA KUMWENDA, MSc; BTech; Dip.

RESEARCH INTERESTS

- Environmental regulation of host-pathogen interaction
- Epidemiology of infectious diseases

JOURNAL PUBLICATIONS

Sherrington, S.L., **Kumwenda, P.**, Kousser, C., Hall, R.A. (2018), “Host sensing by pathogenic fungi”, *Advances in applied microbiology*, Vol. 102, pp. 159-221.

Sarah, L., Sherrington, E.S., Mahtey, N., **Kumwenda, P.**, Lenardon, M.D., Brown, I., Ballou, E.R., MacCallum, D.M. and Hall, R.A. (2017), “Adaptation of *Candida albicans* to environmental pH induces cell wall remodeling and enhances innate immune recognition”, *PLoS pathogens*, Vol. 13 No. 5, p. e1006403.

DEPARTMENT OF NURSING AND MIDWIFERY

The Department of Nursing and Midwifery was established in 2006 with the aim of training high quality nurses and midwifery professionals.

RESEARCH AREAS

Members of staff are actively involved in research and project works. The main focus of research undertaken by the Department falls within the areas of pediatric nursing, HIV/AIDS, maternal and child health, learning disability, child morbidity and mortality, intensive care nursing, oncology, and nursing education. Research outputs from members of staff within the Department are outlined below.

THOKOZANI BVUMBWE, PhD; MCur.; BSc

ORCID ID: orcid.org/0000-0003-0531-3199

RESEARCH INTERESTS

- Psychiatric mental health
- Geriatric nursing
- Clinical learning

Title of PhD Thesis

An analysis of strategies to improve quality and quantity of nursing education in Malawi

Title of Master's Dissertation

Clients' perceptions of therapeutic interaction with nurses at Escoval House Community Psychiatric Clinic in Durban

JOURNAL PUBLICATIONS

Bvumbwe, T.M. and Mtshali, N.G. (2018), "A middle range model for improving quality of nursing education in Malawi", *Curationis*, Vol. 41 No. 1, <https://doi.org/10.4102/curationis.v41i1.1766> .

Bvumbwe, T. and Mtshali, N. (2018), "Nursing education challenges and solutions in Sub Saharan Africa", *BMC Nursing Journal*, Vol 17 No. 3, a1766. <https://doi.org/10.4102/curationis.v41i1.1766>

Bvumbwe. T. and Mtshali, N. (2018), "Transition to practice guidelines: enhancing quality of nursing education", *African Journal of Health professional Education*, Vol. 10 No. 1, pp. 66-71.

Bvumbwe. T. and Mtshali, N. (2018), "Transforming Nursing Education to strengthen health systems in Malawi: An exploratory study", *Open Nursing Journal*, Vol. 12, pp. 93 - 105.

ETTAH CHIMBE-PHIRI, MSc; BSc; UCM

RESEARCH INTERESTS

- Pediatric non-communicable diseases (NCDs)
- Preventive and interventions for child health care
- Maternal and newborn care
- Clinical practice, nursing education

Title of Master's Dissertation

Management and self-care practices among adolescents with type 1 diabetes mellitus

JOURNAL PUBLICATIONS

Phiri, E.C., Chaputula, B., Shawa, E., Chiaravalli, J., Sigalet, E., Gabriel, J. and Dubrowski, A. (2018), "A simulation scenario focused on resuscitation of a young infant (neonate) for nurses and midwives in Malawi, a limited resource country", *Cureus*, Vol. 10 No. 5, e2673.

GRIPHIN BAXTER CHIRAMBO, MSc-MHN; BSc; Post Grad Dip MHN

RESEARCH INTERESTS

- Psychiatric mental health
- Public Health
- Mobile Health

Title of Master's Dissertation

Knowledge and Perceptions of the dangers of substance abuse among affected youth attending St John of God Community services, Malawi

JOURNAL PUBLICATIONS

Chirambo, G. B., Hardy, V. E., Heavin, C., Connor, O., Donoghue, J. O., Mastellos, N., Tran, T., Wu, J. T.S., Carlsson, S., Andersson, B., Adamson, S. and Thompson, M. (2018), "Perceptions of a mobile health intervention for Community Case Management in Malawi: Opportunities and challenges for Health Surveillance Assistants in a community setting", *Malawi Medical Journal*, Vol. 30, pp. 6-12.

Chirambo, G. B., Muula, A. S. and Thompson, M. (2019), "Factors affecting sustainability of mHealth decision support tools and mHealth technologies in Malawi", *Informatics in Medicine Unlocked*, Vol. 17, <https://doi.org/10.1016/j.imu.2019.100261>

Dick, S., O'Connor, Y., Thompson, M. J., O'Donoghue, J., Hardy, V., Joseph Wu, T. S., O'Sullivan, T., **Chirambo, G. B.** and Heavin, C. (2020), "Considerations for improved mobile health evaluation: Retrospective qualitative investigation", *JMIR MHealth and UHealth*, Vol. 8 No. 1, <https://doi.org/10.2196/12424>

Hardy, V., Hsieh, J., **Chirambo, B.**, Wu, T.-S. J., O'Donoghue, J., Muula, A. S. and Thompson, M. (2017), "Assessing the feasibility of mobile phones for follow-up of acutely unwell children presenting to village clinics in rural northern Malawi", *Malawi Medical Journal*, Vol. 29 No. 1, <https://doi.org/10.4314/mmj.v29i1.10>

Hardy, V., O'Connor, Y., Heavin, C., Mastellos, N., Tran, T., O'Donoghue, J., Fitzpatrick, A. L., Ide, N., Wu, T.-S. J., **Chirambo, G. B.**, Muula, A. S., Nyirenda, M., Carlsson, S., Andersson, B. and Thompson, M. (2017), "The added value of a mobile application of Community Case Management on referral, re-consultation and hospitalization rates of children aged under 5 years in two districts in Northern Malawi: Study protocol for a pragmatic, stepped-wedge cluster-randomize", *Trials*, Vol. 18 No. 1, <https://doi.org/10.1186/s13063-017-2213-z>

Ide, N., Hardy, V., **Chirambo, G.**, Heavin, C., O'Connor, Y., O'Donoghue, J., Mastellos, N., Dharmayat, K., Andersson, B., Carlsson, S., Muula, A. and Thompson, M. (2019), "People welcomed this innovation with two hands: A qualitative report of an mhealth intervention for community case management in Malawi", *Annals of Global Health*, Vol. 85 No. 1, pp. 1–10.

Mastellos, N., Tran, T., Dharmayat, K., Cecil, E., Lee, H.-Y., Wong, C. C. P., Mkandawire, W., Ngalande, E., Tsung, J., Wu, -Shu, Hardy, V., **Chirambo, B. G.** and O'donoghue, J. M. (2018), "Training community healthcare workers on the use of information and communication technologies: A randomised controlled trial of traditional versus blended learning in Malawi, Africa", *BMC Medical Education*, Vol. 18 No. 61. <https://doi.org/10.1186/s12909-018-1175-5>

O'Connor, S., Gallagher, J., Wamba, N., Moyo, C., **Chirambo, G. B.** and O'donoghue, J. (2016), "Establishing long-term nursing informatics capacity in Malawi, Africa", *Studies in Health Technology and Informatics*, Vol. 225, pp. 1013 - 1014.

CONFERENCE PROCEEDINGS

O'Connor, Y., Hardy, V., Thompson, M., Mastellos, N., Tran, T., O'Donoghue, J., **Chirambo, G. B.**, Andersson, B., Carlsson, S. and Heavin, C. (2016) 'The importance of form field validation: lessons learnt from a feasibility study of an mHealth application in Malawi, Africa', Proceedings of 20th Pacific Asia Conference on Information Systems - PACIS 2016, Chiayi, Taiwan, 27 June - 1 July, 2016.

TAMARA PHIRI, MSc; BSc;

RESEARCH INTERESTS

- Maternal, newborn and child health
- Reproductive health
- Clinical practice and education

Title of Master's Dissertation

Exploring Male Partner Involvement Regarding Prevention of Mother to Child transmission of HIV (PMTCT) Services in a Selected Health Care Facility in KwaZulu-Natal

JOURNAL PUBLICATIONS

Matthews, A., Walsh, A., Brugha, R., Manda-Taylor, L., Mwale, D., **Phiri, T.**, Mwapasa, V. and Byrne, E. (2019), "The Demand and Supply Side Determinants of Access to Maternal, Newborn and Child Health Services in Malawi", *Maternal and Child Health Journal*, Vol. 23, 23, pp. 556 - 1563.

Walsh, A., Matthews, A., Manda-Taylor, L., Brugha, R., Mwale, D., **Phiri, T.** and Byrne, E. (2018), "The Role of the Traditional Leader in Implementing Maternal, Newborn and Child Health Policy in Malawi", *Health Policy and Planning*, Vol. 33, pp. 879 - 887.

Manda-Taylor, L., Mwale, D., **Phiri, T.**, Walsh, A., Matthews, A., Brugha, R., Mwapasa, V. and Byrne, E. (2017), "Changing Times? Gender Roles and Relationships in Maternal, Newborn And Child Health in Malawi", *BMC Pregnancy and Childbirth*, Vol. 17, DOI 10.1186/s12884-017-1523-1

ELLEMES PHUMA-NGAIYAYE, PhD; MSc; BSc; UCM

RESEARCH INTERESTS

- Maternal, newborn and child health
- Clinical teaching
- HIV and AIDS
- Reproductive health
- Professional nursing practice

Title of PhD Thesis

Development of neonatal nursing clinical competency-based assessment tool for nurse-midwife technicians in CHAM Colleges, Malawi

Title of Master's Dissertation

Experiences of children living with HIV following disclosure of their diagnosis in Mzuzu

JOURNAL PUBLICATIONS

Dartey, A.F., **Phuma-Ngaiyaye, E.** and Phethu, D.R. (2018), "Midwives' emotional distress over maternal death: The case of Ashanti Region", *NUMID Horizon International Journal of Nursing*, Vol. 1 No. 2, pp. 68-76.

ELWIN SHAWA, MSc; BSc; UCM

RESEARCH INTERESTS

- Herbal medicine
- Non-communicable diseases (NCD)
- Clinical nursing
- Cardiovascular nursing
- HIV/AIDS, TB, and Malaria

Title of Master's Dissertation:

Patients' perceptions regarding nursing care in the general surgical wards at Kenyatta National Hospital, Nairobi

JOURNAL PUBLICATION

Phiri, E.C., Chaputula, B., **Shawa, E.**, Chiaravalli, J., Sigalet, E., Gabriel, J. and Dubrowski, A. (2018), "A simulation scenario focused on resuscitation of a young infant (neonate) for nurses and midwives in Malawi, a limited resource country", *Cureus*, Vol. 10 No. 5, e2673.

FACULTY OF HUMANITIES AND SOCIAL SCIENCES

The Faculty of Humanities and Social Sciences was established in 2017 following the restructuring of Faculties and Departments by the University. The Faculty comprises six departments, namely Theology and Religious Studies; History and Heritage Studies; Information Sciences; Communication Studies; Languages, Cultural and Creative Studies; and Governance, Peace and Security Studies. The Faculty offers high-quality education at undergraduate and postgraduate levels in a variety of fields, and has a substantial research profile. Graduates from the Faculty are equipped with the skills of critical thinking, effective communication, and social responsiveness which are gained through the following undergraduate programmes: Security Studies; Library and Information Science; Communication Studies; and Theology and Religious Studies. The Faculty offers exciting postgraduate programmes, namely Masters in Library and Information Science, Masters in Theology and Religious Studies; and PhD in Theology and Religious Studies.

MISSION

To provide high quality education, training, research, and complementary services to meet the technological, social and economic needs of individuals and communities in Malawi.

RESEARCH AREAS

The Faculty is committed to conducting innovative research that informs teaching and policy formulation at national level. The research crosscuts various interdisciplinary thematic areas that include history and heritage studies; gender and development; crisis communication; vocational communication; public relations education; research data management; records management and good governance; public theology; religion and the environment; conflict management and peace building; urban governance and democratization; diplomacy and foreign policy analysis; language and development; oral literature; and literature and politics.

DEPARTMENT OF COMMUNICATION STUDIES

The Department of Communication Studies was established in 2018 with the aim of becoming a centre of excellence in the training of professionals in communication in order to promote best communication practices.

RESEARCH AREAS

The Department's main research focus include the following: Crisis communication, vocational communication and public relations education.

MACKENZIE CHIBAMBO, MA; BA

RESEARCH INTERESTS

- Creative Writing
- Publishing for Social Change
- Business Models
- Inclusive and Girls' Education
- Open, Distance and e-Learning

Title of Masters Dissertation

How best to support ODL students who have no access to textbooks

CONFERENCE PAPERS

Chibambo, M.I. Investigating the flipside of Open, Distance and e-Learning in Malawi. Paper presented at ICERT World Conference in Johannesburg from 27 – 30 July 2019.

Chibambo, M.I. The book history and print culture. Paper presented at The Book as a Tool for Change Conference held at the University of Pretoria on 23 May, 2019.

PRECIOUS MADULA, PhD; MA; BA (Ed)

ORCID ID: <http://orcid.org/0000-0002-4525-873X>

RESEARCH INTERESTS

- Health Communication
- Media Effects
- Cross Cultural Communication

Title of PhD Thesis

Assessment of Interpersonal Communication between Healthcare Providers and Patients in Malawi.

Title of Master's Thesis

Bridging the Information Gap: How to Improve Communication between Healthcare Providers and Patients in Malawi.

JOURNAL PUBLICATIONS

Kaminga, A.C., Myaba, J., Dai, W., Liu, A., Chilale, H.K., Kubwalo, P.F., **Madula, P.**, Banda, R., Pan, X. and Wen, S.W. (2019), "Association between referral source and duration of untreated psychosis in pathways to care among first episode psychosis in patients in Northern Malawi", *Early Intervention in Psychiatry*, pp. 1 – 12. DOI: 10.1111/eip.12885.

Madula, P. (2018), "Afro-Pessimism and negative reporting on South Africa during the 2010 Fifa World Cup", *New Media and Mass Communication*, Vol. 76, pp. 1 – 6.

Madula, P., Kalembo, F.W., Yu, H. and Kaminga, A.C. (2018), "Healthcare provider-patient communication: A qualitative Study of women's perceptions during child birth", *Reproductive Health*, Vol 15 No. 35. <https://doi.org/10.1186/s12978-018-0580-x>

KHUMBO NEWA, MSc; BAJ

RESEARCH INTERESTS

- Public Relations
- Mass Communication and media studies
- Development Journalism
- Crisis Communication

Title of Master's Dissertation

Stakeholders' perceptions on the efficacy of public relations officers in government ministries: Case study of selected ministries in Malawi.

CONFERENCE PAPERS

Newa, K. The role of the media in resolving conflicts: Reflecting on the conflicts post African democratization. Paper presented at the Postgraduate Students Conference held in Eldoret, Kenya from 22-23 July, 2013.

Newa, K. Press freedom versus the Social Responsibility Theory: A look on cases in Malawi and Kenya. Paper presented at the Media on the Move Symposium held in Nairobi, Kenya from 7-8 December, 2012.

DEPARTMENT OF GOVERNANCE, PEACE AND SECURITY STUDIES

The Department of Governance, Peace and Security Studies (GPSS) emerged from a faculty restructuring process which Mzuzu University implemented in 2017. This process led to the transformation of the Centre for Security Studies (CSS) into a fully-fledged academic department within the Faculty of Humanities and Social Sciences. By focusing on governance, peace and security studies, the department brings together the disciplines of political science, public administration, and peace and security studies under one roof in such a coordinated and coherent manner that allows for development of knowledge through parallel academic programming. At the same time, the department benefits from the cross-breeding of these sub-disciplines through generation of high-quality research. This allows the department the flexibility to run more dynamic academic programs for both generic and upgrading students, thereby increasing the competitiveness of Mzuzu University. The Department runs five programmes namely: Diploma in Security Studies, Bachelor of Arts in Security Studies; Bachelor of Arts (Development Studies); Bachelor of Arts (Politics and Governance), and Bachelor of Arts (International Relations and Diplomacy).

Vision

An academic department of excellence, responsive to knowledge, training, research and skills gaps in governance, peace and security studies for various institutions and management bodies in Malawi, the southern African region and beyond.

Mission

To provide high quality education, training, research and complimentary services that promote good governance, development and a culture of peace and security in Malawi and the region.

Research Areas

The department has research expertise in the following broad themes: International negotiations; Diplomatic culture; Migration and Development; Regional Integration and Development; China-Africa Relations; National Development Planning; Rural and Urban governance and Conflict management

EUGENIO NJOLOMA, MSocSc; BSocSc (Hos); BSocSc

RESEARCH INTERESTS

- Conflict Management
- Foreign Policy analysis
- Security and development

Title of Master's Dissertation

A Study of Intra-African Relations: An Analysis of the Factors Informing Malawi's Foreign Policy towards Zimbabwe

BOOK CHAPTERS

Kamanga, G. and Njoloma, E. (2019), "The Socio-economic impact of tourism on local community in Nkhata Bay district, Malawi", In Gursory, D. and Nunkoo, R. (eds.) *The Routledge Handbook of Tourism Impacts: Theoretical and Applied Perspectives*, London: Routledge.

JOURNAL ARTICLES

Njoloma, E. and Kamanga, G. (2019), "The Effects of Crime on Tourist's Travel Decision to Malawi", *African Journal of Hospitality, Tourism and Leisure*, Vol. 8 No. 3, pp. 1-11.

THEODORA CHARLOTTE THINDWA, MSc; BA

RESEARCH INTERESTS

- Peace Studies,
- Security and Development
- China-Africa relations,
- Debt and Poverty,
- Social protection and climate change

Title of Master's Thesis

China-Malawi Relations: An Analysis of Trade Patterns and Development Implications

JOURNAL PUBLICATIONS

Thindwa, T., Chawinga, W.D. and Dube, G. (2019), "Information-seeking behaviour of security studies students: A case study", *South African Journal of Information Management*, Vol. 21 No. 1, pp. 1-10.

CONFERENCE PAPERS

Thindwa, T. The role of traditional justice mechanism in promoting peace in Africa. Paper presented at a conference on Historical Heritage and Security, Osaka University, Japan, 15 November, 2017.

Thindwa, T. Status of Security Sector Reform (SSR) and human security in southern Africa. Paper presented at the Security Sector Reform and Governance (SSR/G) conference as a tool for democratic and prosperous peace? Maputo, Mozambique, 24th-25th November, 2017.

GEORGE ABEL MHANGO, MA; BA

RESEARCH AREAS

- International Mediation and peace processes
- national and regional security architectures,
- Security Sector reforms in Africa
- Governance and development,
- Public policy analysis

CONFERENCE PAPERS

Mhango, G.A. Democratic Oversight of the Security Sector in Africa: Issues, Challenges and Prospects. Paper presented at the Academic Council on the United Nations System (ACUNS) conference themed ‘The UN and Africa: Progress towards achieving the SDGs’, Stellenbosch University, South Africa, 25 - 27 June, 2019.

Mhango, G.A Malawi’s Relations with the Latin American Region. Paper presented at a Symposium on ‘International Law and International relations: Malawian Perspectives’, British High Commission (Lilongwe) and University of Lilongwe, Crossroads Hotel, Lilongwe, 24 - 26 October, 2018.

Mhango, G.A. The Impact of Conflict on Historical Heritage Preservation in the Democratic Republic of the Congo. Paper presented at a conference on ‘Historical Heritage and Security’ Osaka University, Japan, 15 November, 2017.

AUBREY KABISALA, MA; BA

RESEARCH INTERESTS

- International Regimes
- International negotiations and mediation
- Diaspora studies
- Regional security arrangements
- Migration and security

CONFERENCE PAPERS

Kabisala A.L. Malawi in Africa. Paper presented at a Symposium on ‘International Law and International relations: Malawian Perspectives’, British High Commission (Lilongwe) and University of Lilongwe, Crossroads Hotel, Lilongwe, 24 – 26 October, 2018.

Kabisala A.L. Community Approaches to Heritage Preservation in the Wake of Resource Exploitation for Development. Paper presented at a conference on ‘Historical Heritage and Security’ Osaka University, Japan, 15 November, 2017.

DEPARTMENT OF HISTORY AND HERITAGE STUDIES

BACKGROUND

The Department of History and Heritage Studies formerly known as the Department of History was established in 2007 having existed before as a section under the then department of Humanities for seven years since 2001. Initially it was under the Faculty of Education. In 2018 it was renamed Department of History and Heritage Studies following the reorganization of the University programmes, and was moved to the Faculty of Humanities.

VISION

To promote awareness of the significance of history in the development of social, political and economic needs of individuals and communities in Malawi through research and training.

MISSION

To provide high quality education to history students studying to become teachers at secondary and tertiary institutions, and mould patriotic citizens planning to work in the private and public sectors.

RESEARCH AREAS

Members of staff within the Department of History and Heritage Studies carry out research in the fields of the dynamics of History and heritage in Malawi since 1964, gender and development, and climate and ecological change in post-colonial Malawi.

HARVEY CHIDOBA BANDA, PhD; MA

RESEARCH INTERESTS

- Labour migration
- Migration of people

Title of PhD Thesis

The dynamics of labour migration from northern Malawi to South Africa since 1974

Book Publications

Banda, H. C. C. (2017) *Perspectives of labour migration from Mzimba District, Malawi, to South Africa*, Cameroon: Langa.

Banda, H. C. C. (2017) *Migration from Malawi to South Africa: A historical and cultural novel-real life experiences*, Cameroon: Langa.

Banda, H. C. C. (2016) *Vidokoni: Folktales from Mzimba, Malawi*, Cameroon: Langa.

JOURNAL PUBLICATIONS

Banda, H. C. C. (2013), "Xenophobia as a form of insecurity: The plight of Malawian migrants in South Africa", *Southern African Peace and Security Studies*, Vol. 2 No. 2, pp. 31-45.

Banda, H. C. C. (2015), "Gendered migrancy from Mzimba District, Malawi, to South Africa since the 1990s", *Religion and Culture*, Vol. 2, pp. 13-18.

Banda, H. C. C. (2017), "The decline of migrancy and increase in informal labour migration from northern Malawi to South Africa, 1970s – 1980s", *New Contree*, Vol. 79, pp. 65-85.

Banda, H. C. C. (2015), "Migration, economy and politics: Unprecedented increase in informal labour migration from northern Malawi to South Africa in the 1990s", *African Renaissance*, Vol. 15 No. 4, pp. 53-75.

CRISPIN MPHANDE, MA

RESEARCH INTERESTS

- Implementation of New Public Management in the Public Sector
- Contested Customary Lands
- Outsourcing non-core functions in the Public Sector
- Neopatrimonialism and electoral system in Africa

Title of Master's Dissertation

The socio-economic impact of estate agriculture on local communities: The case of Vizara and Kawalazi Estates in Nkhata Bay.

JOURNAL PUBLICATIONS

Wanda, E., Manda, M., Kushe, J., Msiska, O., **Mphande C.**, Kamlomo, D and Kaunda, J (2017), "Using Citizens Science Approach to monitor water, sanitation and hygiene, related risks in Karonga Town", *African Journal of Environmental Science and Technology*, Vol. 11 No. 6, pp. 304-323.

Wanda E., Manda, M., Kamlomo, D., Kushe, J. **Mphande C.**, Kaunda, J and Msiska, O. (2017), "Governing WASH for disaster risk reduction in Karonga Town, Malawi", *International Journal of Disaster Risk Reduction*, Vol. 26, pp. 69-77.

BRYSON NKHOMA, PhD; MA; BEd

RESEARCH INTERESTS

- Agricultural and ecological changes
- Peasant food production and security
- Forced migration
- Diplomatic relations

Title of PhD Thesis

Peasants, Ecology, and the State: Food Security in the Lake Chilwa Basin of Southern Malawi, 1891-1994

Title of Master's Dissertation

The State and irrigation Farming in Malawi, 1946 – 2002

JOURNAL PUBLICATIONS

Nkhoma, B. G. (2019), "Walking in the Footprints of the Colonial Masters: Agricultural Development and Peasant Food Production in Malawi, 1961-1994," *Southern Journal of Contemporary History*, Vol. 44, No. 2, pp. 114-134.

Nkhoma, B. G. (2019), "Ecological Change, Agricultural Development and Food Production in Malawi," *Strategic Review for Southern Africa*, Vol. 41, No. 2, pp. 99-113.

DEPARTMENT OF INFORMATION SCIENCE

The Department of Information Science offers courses at both graduate and undergraduate levels. The course offering is tailor-made to meet the human resource needs of information centres, libraries, archives and records centres.

RESEARCH AREAS

Members of staff within the Department are involved in research that focuses on the following areas: Research data management, records management and good governance and cloud libraries and user centred information.

WINNER DOMINIC CHAWINGA, PhD; MLIS; BLIS

ORCID ID: <http://orcid.org/0000-0002-3865-4777>

RESEARCH INTERESTS

- Digital curation
- Social media and ICT in higher education pedagogy
- ICT4D
- Open and distance learning
- Information and competitive intelligence

Title of PhD Thesis

Research data management and digital preservation in universities: An interdisciplinary study of medical sciences and humanities

Title of Master's Dissertation

The use of Web 2.0 by students and lecturers at Mzuzu University, Malawi: The case of the Faculty of Information Science and Communications

JOURNAL PUBLICATIONS

Thindwa, T., **Chawinga, W.D.** and Dube, G. (2019), "Information-seeking behaviour of security studies students: A case study", *South African Journal of Information Management*, Vol. 21 No. 1, pp. 1-10.

Phiri, A., Chipeta, G. T. and **Chawinga, W. D.** (2019), "Information behaviour of rural smallholder farmers in some selected developing countries: A literature review", *Information Development*, Vol. 35 No. 5, pp. 831-838.

Nyasulu, C. and **Chawinga, W.D.** (2019), "Using the decomposed theory of planned behaviour to understand university students' adoption of WhatsApp in learning", *E-Learning and Digital Media*, Vol. 16 No. 5, pp. 413-429.

Nyasulu, C. and **Chawinga, W.D.** (2018), "The role of information and communication technologies in the delivery of health services in rural communities: Experiences from Malawi", *South African Journal of Information Management*, Vol. 20 No. 1, pp. 1-10.

Chipeta, G., Dube, G., and **Chawinga, W.**, Malemia, L. and Chaura, M. (2018), "Information-seeking behavior of first-year undergraduate students at Mzuzu University, Malawi", *Mousion*, Vol. 16 No. 1, pp. 1-18.

Phiri, A., Chipeta, G.T. and **Chawinga, W.D.** (2018), "Information needs and barriers of rural smallholder farmers in developing countries: A case study of rural smallholder farmers in Malawi", *Information Development*, Vol. 35 No. 3, pp. 421-434.

GEORGE CHIPETA, PhD; MLIS; BA (Hons) LIS; BA, LIS

RESEARCH INTERESTS

- Information literacy
- Information behaviour
- Knowledge Management
- Library and information Science education

Title of PhD Thesis

Knowledge sharing strategies in university libraries in Malawi

Title of Master's Dissertation

Teaching and learning of information literacy in Universities of KwaZulu-Natal, in South Africa and Malawi

JOURNAL PUBLICATIONS

Phiri, A., **Chipeta, G. T.** and Chawinga, W. D. (2019), "Information behaviour of rural smallholder farmers in some selected developing countries: A literature review", *Information Development*, Vol. 35 No. 5, pp. 831-838.

Chipeta, G.T. and Chawinga, D. W. (2018), "A tracer study of Library and Information Science Graduates of Mzuzu University, Malawi", *African Journal of Libraries, Archives and Information Science*, Vol. 28 No. 1, pp. 33-47.

Chipeta, G., Dube, G., Chawinga, W., Malemia, L. and Chaura, M. (2018), "Information-seeking behavior of first-year undergraduate students at Mzuzu University, Malawi", *Mousaion*, Vol. 16 No. 1, pp 1-18.

Nyasulu, C., Chawinga, W. and **Chipeta, G.** (2018), "A tracer study of ICT graduate students at Mzuzu University, Malawi", *Mousaion*, Vol 36 No 3, pp 1-19.

Phiri, A., **Chipeta, G.T.** and Chawinga, W.D. (2018), "Information needs and barriers of rural smallholder farmers in developing countries: A case study of rural smallholder farmers in Malawi", *Information Development*, Vol. 35 No. 3, pp. 421-434.

SELLINA KHUMBO KAPONDERA, MLIS; BLIS

ORCID ID: orcid.org/0000-0001-6686-6788

RESEARCH INTERESTS

- Telecentres
- ICT4D
- e-Commerce
- e-Learning

Title of Master's Dissertation

The use of multipurpose community telecentres and their services in Malawi. The case of Lupaso Community Telecentre

JOURNAL PUBLICATIONS

Kapondera, S.K. and Chigona, W. (2018), "Domestication of Telecentres by Malawian rural women", *International Journal of Information Communication Technologies and Human Development (IJICTHD)*, Vol. 10 No. 1, pp. 51-64.

FISKANI NGWIRA, MLIS; BLIS; Dip. LIS

RESEARCH INTERESTS

- Integrated Library Management System
- Organization of Knowledge.
- Information resources and management in libraries
- Open Access and its impact on library resources and services
- Information Retrieval Systems (IRS)

Title of Master's Dissertation

Use of Koha integrated library system by library staff at Mzuzu University Library and Learning Resource Centre

JOURNAL PUBLICATIONS

Chawinga, W. and **Ngwira, F.** (2015), "The role of the Mzuzu American Corner Information Technology and Communication Centre, Malawi", *Innovation: journal of appropriate librarianship and information work in Southern Africa*, Vol. 50, pp. 20- 43.

Majawa, F. and **Ngwira, F.** (2012), "Koha Integrated Library System: Learning from experience at Mzuzu University Library and Learning Resources Centre", *Malawi Journal of Library and Information Science*, Vol. 1 No. 1, pp. 19-30.

CONFERENCE PAPERS

Chaura, M., Malemia, L. and **Ngwira, F.** Exploring the role of library and librarians in research support services: case study of Mzuzu University and learning Resources Centre, Malawi. Paper presented at the 4th Zimbabwe University Libraries Consortium held at the Imperial Resort Beach Hotel (ZULC) held at the ZESA Training Centre, Harare, Zimbabwe from 27th - 29th March 2019.

Ngwira, F. and Majawa, F. Disseminating Agricultural Information Services to Farmers for attaining Food Security in Zombwe Extension Planning Areas (EPA) in Mzuzu Agricultural Development Division (MZADD) Mzimba, Malawi. Paper presented at the 22nd Standing Conference of Eastern Central and Southern African Libraries Association (SCECSAL) hosted by the Uganda Library and Information Association (ULIA) held at the Imperial Resort Beach Hotel, Entebbe, Uganda from 23-30 April, 2018.

Ngwira, F. Use of Koha Integrated Library System by library staff at Mzuzu University Library and Learning Resource Centre. Paper presented at the 22nd Standing Conference of Eastern Central and Southern African Libraries Association (SCECSAL) hosted by the Uganda Library and Information Association (ULIA) held at the Imperial Resort Beach Hotel, Entebbe, Uganda from 23-30 April, 2018.

Ngwira, F. and Majawa, F. Exploring use of Knowledge Management (KM) principles in the Agriculture sector: Case of Zombwe Extension Planning Areas (EPA) Mzuzu Agricultural Development

Division (MZADD) Mzimba, Malawi. Paper presented at the 24th Eastern and Southern Regional Branch of the International Council on Archives (ESRABICA) held at the Bingu International Conference Centre in Lilongwe from 7 to 11 August 2017.

Ngwira, F. and Majawa, F. Data Curation Needs of Researchers at Mzuzu University. Paper presented at the 22nd Standing Conference of Eastern Central and Southern African Libraries Association (SCECSAL) hosted by the Swaziland Library and Information Association (SWALA), held at the Convention Centre, Royal Swazi Sun, eZulwini, Swaziland from 25-30 April, 2016.

Ngwira, F. and Simbeye, W. The Role of National Library Service in Promoting the E-Government in Malawi. Paper presented at the 22nd Standing Conference of Eastern Central and Southern African Libraries Association (SCECSAL) hosted by the Swaziland Library and Information Association (SWALA), held at the Convention Centre, Royal Swazi Sun, eZulwini, Swaziland from 25-30 April, 2016.

Ngwira, F. Benefits of using KOHA in cataloguing of library materials: Study of Mzuzu University Library and Learning Resources Centre and National Library Services. Paper presented at the 21st Standing Conference of Eastern Central and Southern African Libraries Association (SCECSAL). Hosted the Malawi Library Association (MALA) held in Lilongwe from July 28-1 August, 2014.

AUSTINE PHIRI, MLIS; BLIS

Orcid ID: <https://orcid.org/0000-0002-0425-8565>

RESEARCH INTERESTS

- Records Management
- Information Behavior
- Data Management
- Information Literacy
- Data Curation

Title of Master's Dissertation

Information behavior of rural smallholder farmers in Zombwe Extension Planning Area in Mzimba North, Malawi.

JOURNAL PUBLICATIONS

Phiri, A., Chipeta, G. T. and Chawinga, W. D. (2019), "Information behaviour of rural smallholder farmers in some selected developing countries: A literature review", *Information Development*, Vol. 35 No. 5, pp. 831–838.

Phiri, A., Chipeta, G. and Chawinga, W. (2018), "Information needs and barriers of rural smallholder farmers in developing countries: A case study of rural smallholder farmers in Malawi", *Information Development*, Vol. 35 No. 3, pp. 421-434.

CONFERENCE PROCEEDING

Selemani, A., Chawinga, W. and Phiri, A. (2016), "Awareness of Digital Rights Management in Academic Libraries: A Survey of Three Selected Malawian University/College Libraries". *Proceedings of the 22nd Standing Conference of Eastern Central and Southern African Libraries Association (SCECSAL) hosted by the Swaziland Library and Information Association (SWALA)*, held at the Convention Centre, Royal Swazi Sun, eZulwini, Swaziland from April 25-30, pp. 217-225.

CONFERENCE PAPER

Phiri, A., Chipeta, G. and Chawinga, W. Information seeking behaviour of rural smallholder farmers in Malawi. Paper presented at the Information Behavior Conference held in Krakow, Poland from 9-11 October 2011.

DEPARTMENT OF LANGUAGE, CULTURAL AND CREATIVE STUDIES

The Department of Language, Cultural and Creative Studies is one of the earliest and largest academic departments at Mzuzu University. Members of staff within the department have attained various specialties within the broad disciplines of linguistics, literature and French.

RESEARCH AREAS

Members of staff within the Department of Language, Cultural and Creative Studies undertake research activities in the fields of language and development, oral literature, and literature and politics.

AGNESS CHIMANGENI CHALIWA HARA, PhD; MA; BA

RESEARCH INTERESTS

- Text comprehension
- Language acquisition and learning
- Bilingualism
- Multilingualism
- Sociolinguistics-related topics

Title of PhD Thesis

Text comprehension in multilingual children: Mental representation and narrative text structure

Title of Master's Dissertation

Code-mixing in simultaneous language acquisition

CONFERENCE PAPERS

Hara, A. C. Language choice, attitudes and identity issues among non-Chichewa native students at Mzuzu University. Paper presented at 15th Linguistic Association of SADC Universities (LASU) Conference, University of Zambia, Zambia, 5th to 7th August 2019.

Hara, A. C. Exploring language use by lecturers of multilingual nursing students. Paper presented at 15th Linguistic Association of SADC Universities (LASU) Conference, University of Zambia, Zambia, 5th to 7th August 2019.

Hara, A. C. Pragmatic functions of demonstratives in [re]tellings by Malawian bilingual children. Paper presented at SAALT/SALALS joint annual conference at University of Pretoria, South Africa, 30th June to 4th July 2019.

Hara, A. C. Foregrounding repetition in [re]tellings by Malawian bilingual children. Paper presented at SAALT/SALALS joint annual conference at University of Pretoria, South Africa, 30th June to 4th July 2019.

JOSHUA ISAAC KUMWENDA, PhD; MA; BA (Ed)

RESEARCH INTERESTS

- Politics of narrating the nation
- The African novel
- Poetics of orality and intertextuality in Africa
- Language policy in postcolonial Africa

Title of PhD Thesis

Politics of narrating the Malawian nation in Legson Kayira's novels and autobiography

Title of MA Dissertation

The role of oral tradition and socio-political history in the contemporary Malawian novel: The case of James Ng'ombe's Sugarcane with Salt and Madala's Children

BOOK PUBLICATIONS

Banda, T. and Kumwenda, J.I. (eds) (2013) *Reading Malawian Literature: new approaches and theories*, Mzuzu: Mzuzu University Press.

JOURNAL PUBLICATIONS

Kumwenda, J.I. (2013), "The postcolonial African novel as a metanarrative of the myth of the nation-state: a study of James Ng'ombe's novels", *Marang: Journal of Language and Literature*, Vol. 23, pp. 115-127.

Kumwenda, J.I. (2014), "Social media, ethics and development in the postmodernist Malawian society", *Journal of Development and Communication Studies*, Vol. 3 No. 1, pp.17-23.

Kretzer M. and Kumwenda J.I. (2016), "Language policy in Malawi: A study of its contexts, factors for its development and consequences", *Marang: Journal of Language and Literature*, Vol 27, pp. 20 - 38.

Kumwenda J.I. (2018), "The role of the surreal in postcolonial African writing: The case of Legson Kayira's Jingala and the Detainee", *Matatu: Journal for African Culture and Society*, Vol. 50, pp. 152-186.

CONFERENCE PROCEEDING

Kumwenda, J.I. (2013), "When two worlds collide: a comparative study of narrative devices and techniques employed by old and young generation Malawian writers", in: Banda, T. and Kumwenda, J.I. (eds) *Reading Malawian Literature: new approaches and theories*, Mzuzu: Mzuzu University Press.

CONFERENCE PAPERS

Kumwenda, J.I. The postcolonial African novel as a metanarrative of the myth of the nation-state. Paper presented at the University of Botswana, 12-14th July, 2012.

Kumwenda, J.I. When two worlds collide: a comparative study of narrative devices and techniques employed by old and young generation Malawian writers. Paper presented at Mzuzu University, 20th September 2012.

Kumwenda, J.I. Re-thinking nationalism in the postcolonial African novel: Chinua Achebe versus Legson Kayira's perspective. Paper presented at the African Literature Association (ALA) conference, Bayreuth University, Germany, 3-6th June, 2015.

Kumwenda, J.I. Culture and the pitfalls of national language in Malawi. Paper presented at Justus Liebig University – Giessen, Germany, 1st June 2015.

ALBERT HARAWA, MA

RESEARCH INTERESTS

- Literary and Cultural theories
- Oral literature and Development

Titles of Master's Dissertations

Dissertation 1:

Hybridity in Abodunrin's It Would Take Time: A Conversation with Living Ancestors and Brathwaite's Masks

Dissertation 2:

Modulations of hybridity in Abodunrin's It Would Take Time: A Conversation with Living Ancestors; Brathwaite's Masks, Ngugi's Matigari and Mvona's An Arrow from Maraka

CONFERENCE PAPERS

Harawa, A.M. 'Nudity' as a strategy of cultural preservation: A case study of Ingoma dance. Paper presented at The First Sino-Malawi Culture Exchange Conference organized by UNIMA -Chancellor College in conjunction with Chinese Embassy at Chitsulo Conference Centre and Mua Culture Museum from 5-6th April, 2018.

Harawa, A.M. Towards the harmonization of the cat-mouse relationship between authors and publishers. Paper presented at an interface workshop for authors and publishers organized by the Malawi Union of Academic and Non-Fiction Authors (MUANA) held in Liwonde, Machinga in September 2018.

WELLMAN KONDOWE, PhD; MA; B Ed

RESEARCH INTERESTS

- Political Discourse Analysis
- Text Linguistics
- Forensic Linguistics
- Functional Linguistics
- Bantu Linguistics

Title of PhD Thesis

Insincerity and the Principle of Believability in Malawian Criminal Courtroom Trial: An Inquiry into Forensic Discourse.

Title of Master's Dissertation

Political discourse analysis: Systemic functional study of Bingu wa Mutharika inauguration addresses

JOURNAL PUBLICATIONS

Kondowe, W. and Ngwira, F.F (2019), "Projecting voice in political discourse: A study of Saulos Klaus Chilima's discursive strategies, Malawi", *Theory and Practice in Language Studies*, Vol. 9 No. 5, pp. 500-550.

Gamage, U.P. and **Kondowe, W.** (2019), "A pragmatic study of humour in *Udurawana's* Joke Stories of Sri Lanka: Implications for second language teaching and learning", *Theory and Practice in Language Studies*, Vol. 9 No. 7, pp. 762-768.

Chiyembekezo, R., **Kondowe, W.** and Ngwira, F.F. (2019), "Teaching English speaking skills to L2 students using Role-Play Method: What do teachers in Malawi say?" *Researchers World-Journal of Arts, Science & Commerce*, Vol. 10 No. 1, pp. 12-20.

WILLIAM MAULIDI, MSc; MIP; BA (Ed)

RESEARCH INTERESTS

- Intellectual Property
- Entrepreneurship
- Technology Transfer
- Technology Commercialisation
- Artificial Intelligence

Title of Master's Dissertation

Dissertation 1:

Assessing the viability of using music recognition technologies in tracking music plays on broadcasting stations in Malawi: The case of MBC Radio 2 FM.

Dissertation 2:

The study on the extent to which digital environment has contributed to music piracy in LDCs: The case of Malawi.

JOURNAL PUBLICATIONS

Maulidi, W. (2018), "Digital Environment and Copyright Infringement in Malawi", *African Journal of Intellectual Property*, Vol 3 No 1, pp. 61-73.

CONFERENCE PAPERS

Maulidi, W. Assessing the viability of using music recognition technologies in tracking music plays on broadcasting stations in Malawi. Paper presented at the Conference of the South African Association of Intellectual Property Law and Information Technology Law Teachers and Researchers (AIPTIL), hosted by SARchi Research Chair in Intellectual Property, Innovation and Development and the Intellectual Property Unit, University of Cape town, 1-2nd July, 2019.

Maulidi, W. Teaching Intellectual Property beyond walls of Law Schools: Prospects for African Universities. Paper presented at the Conference of the South African Association of Intellectual Property Law and Information Technology Law Teachers and Researchers (AIPTIL), University of Pretoria, 4-5th July, 2018.

Maulidi, W. The impact of the extensions of pharmaceutical transition period for African LDCs on the implementation of TRIPS: The case of Malawi. Paper presented at the *WIPO-WTO Colloquium for Teachers and Researchers of Intellectual Property Law, African Edition*, University of South Africa (UNISA), 9-12th April, 2018.

DEPARTMENT OF THEOLOGY AND RELIGIOUS STUDIES

MISSION

To provide high quality education, training, research, consultancies and outreach services in Theology and Religious Studies.

RESEARCH ACTIVITIES

Members of staff are actively involved in research, publications and editorial work. Research undertaken by members of staff within the Department of Theology and Religious Studies mainly fall within the areas of gender and development, public theology, and religion and the environment.

RHODIAN MUNYENYEMBE, PhD; MA; BA; Dip. Theol.

RESEARCH INTERESTS

- Socio-cultural influences of the Charismatic Movement on Malawian Christianity
- Church-State relations in Malawi
- Christianity and Education in Malawi
- Traditional Chieftaincy and the Christian Faith in Malawi

Title of PhD Thesis

A history of the CCAP as a federative denomination (1924-2015)

Title of Master's Dissertation

Christianity and socio-cultural issues: An evaluation of the charismatic movement's contribution towards the contextualisation of the Gospel in Malawi

BOOK PUBLICATION

Munyenyebe, R. (2019), *Pursuing an elusive unity: A history of the Church of Central Africa Presbyterian as a federative denomination (1924-2018)*, Carlisle, UK: Langham Publishing.

JOURNAL PUBLICATIONS

Munyenyebe, R. and Hofmeyr, J. (2016), "Lofty but not powerful: a critical analysis of the position of the general assembly in the union of the Church of Central Africa Presbyterian (Malawi)", *Studia Historiae Ecclesiasticae*, Vol. 42 No. 3, pp. 1-21.

Munyenyebe, R. and Hofmeyr, J. (2016), "When ecclesiastical unity is pursued but not realised: Synodical independency and denominational pluralism within the Church of Central Africa Presbyterian (CCAP)", *Studia Historiae Ecclesiasticae*. DOI: <http://dx.doi.org/10.17159/2412-4265/2016/1243>.

JONATHAN NKHOMA, MA; BA (Theol.); BA (Biblical Studies)

RESEARCH INTERESTS

- New Testament and Early Christianity
- Gender and Disability Studies
- Missiology
- Malawian Church History
- Theology and Development

Title of Master's Dissertation

The use of fulfillment quotations in the Gospel according Matthew

BOOK CHAPTER PUBLICATIONS

Nkhoma, J.S. (2019), "Religious Education and Civic Responsibility in Malawi: A Historical Perspective," in Amanze, J.N., Masango, M., Chitando, E. and Siwila, L. (eds.), *Religion and Development in Southern and Central Africa Vol. II*, Mzuzu: Mzuni Press, pp.329 - 351.

Nkhoma, J.S. (2018), "Malawi", in Lamport, M.A. (ed.), *Encyclopedia of Christianity in the Global South, Vol. II*, Blue Ridge Summit, PA: Rowman & Littlefield, pp. 477 - 481.

FACULTY OF TOURISM, HOSPITALITY AND MANAGEMENT STUDIES

Faculty of Tourism, Hospitality and Management Studies was founded with the objective of producing scarce human resources to grow Malawi's hospitality and tourism sectors. The Faculty strives to produce graduates that are equipped with professional technical knowledge and skills in tourism planning, hospitality management, management, research and development. Graduates from the faculty are engaged as planners, consultants, managers and entrepreneurs in the private, public and non-governmental sectors.

The Faculty has three operational departments. These include Tourism, Hospitality Management, and Management and Entrepreneurial Studies.

RESEARCH ACTIVITIES

Academic members of staff in the Faculty of Tourism, Hospitality and Management Studies carry out research in service quality, hospitality management and marketing, tourism development, and tourism marketing.

DEPARTMENT OF HOSPITALITY MANAGEMENT

The Department of Hospitality Management was established under the Faculty of Tourism, Hospitality and Management in 2007 following the performance gaps that existed in the tourism and hospitality industry as revealed by the training needs assessment survey conducted by a team of researchers drawn from University of Malawi and the Ministry of Tourism in the year 2000.

Vision

The Department strives to address the growing need for well-trained and highly skilled workforce in the hospitality industry by adopting a competency-based curriculum and producing employable graduates who possess a sound theoretical and practical base.

Mission

Delivering potential leaders to the hospitality industry with a holistic view of hospitality as a form of business, a service industry and also a social practice, with broad cultural, political, economic and environmental connectedness and implications.

RESEARCH INTERESTS

The Department is taking a leading role in championing research in the following areas of hospitality: Sustainability; service quality; hospitality management and marketing.

MICHAEL BENNETT SEPULA, PhD; MSc; B Ed; Dip.

RESEARCH INTERESTS

- Hotel Service Quality
- Customer Satisfaction
- Corporate Social Responsibility in the Hospitality Industry
- Sustainable Hospitality Operations Practices
- Food Safety Management

Title of PhD Thesis

Hotel rating system dimensions as determinants of service expectations and customer satisfaction in star-rated hotels in selected cities in Malawi

Title of Master's Thesis

Assessing determinants of consumer perceptions of service quality, its improvement and image in Malawian Lodges: Focusing on employees' expectations and perceptions

BOOK CHAPTER PUBLICATIONS

Chilembwe, J.M. and **Sepula, M.B.** (2017), "Corporate social responsibility practices in the tourism and hospitality industry in Malawi", in Koutra, C. (Ed.), *Social responsibility: Application of good practices and malpractices in tourism and hospitality industry in the developing world*, Hauppauge, New York: Nova Science Publishers, pp. 87-118.

JOURNAL PUBLICATIONS:

Sepula, M. B. (2019), "Predicting customer satisfaction using a two-level service expectation framework: Empirical evidence from star rated hotels in Malawi", *African Journal of Education, Science and Technology*, Vol. 5 No. 3, pp. 100 - 115.

Sepula, M.B. and Bello, F.G. (2019), "Guests' perceptions of official hotel rating system dimensions in star-rated hotels in Malawi", *Global Review of Research in Tourism, Hospitality and Leisure Management*, Vol. 5 No. 1, pp. 715 - 743.

Sepula, M.B., Kieti, D.M., Korir, J.C., Cheloti-Mapelu, I. and Bello, F.G. (2018), "Does grading standard dimension of hotel rating system predict customer satisfaction? Empirical evidence from Malawi", *Journal of Tourism and Hospitality Management*, Vol. 6 No. 2, pp. 149 - 163.

Sepula, M. B. and Shirandula, D. (2017), "Influence of customer service on the performance of hospitality enterprises: Lessons from sunbird tourism limited in Malawi", *African Journal of Tourism, Hospitality and Leisure Studies*, Vol. 3 No. 1, 6-16.

Shirandula, D., Cheloti-Mapelu, I. and **Sepula, M. B.** (2017), "Relationship between gender and proactive work behaviour in the Kenya's hotel industry", *African Journal of Tourism, Hospitality and Leisure Studies*, Vol. 3 No. 1, pp. 1- 5.

CONFERENCE PAPERS

Malesi, K. L., Rotich, D., Korir, J. and **Sepula, M. B.** Nutritional composition of flakes developed from finger millets. Paper presented at 6th International Interdisciplinary Conference (IIC-2019) on “Towards Achievement of Sustainable Development Goals (SDs): Opportunities and Challenges” held at the University of Eldoret, Eldoret, Kenya in 2019.

Sepula, M. B., Kieti, D. M., Korir, J. C. and Cheloti-Mapelu, I. Hotel rating system dimensions as determinants of customer satisfaction in selected star-rated hotels in Malawi. Paper presented at ATLAS Africa Conference 2019 on “Tourism and Innovation” held at Makerere University, Kampala, Uganda in June 2019.

Sepula, M. B. and Korir, J. C. Harmonisation of hotel rating systems in Southern Africa: Benefits and challenges for the hospitality industry in Malawi. Paper presented at the 2nd Annual International Conference on “Supporting Green Growth and Knowledge Economy through Research Innovation and Technology for Sustainable Development” held at Machakos University, Machakos, Kenya in April 2019.

Sepula, M. B. Do Service Expectations predict customer satisfaction? Empirical evidence from star rated hotels in Malawi. Abstract presented at an African Studies Association of the UK (ASAUUK)/British Academy Workshop on “Academic Publishing: Challenges and Opportunities”. School of Arts and Social Sciences held at Moi University, Main Campus, Eldoret, Kenya in December 2018.

Sepula, M. B. and Mhango, G. M. K. Tourism and hospitality policy strengths, weaknesses and its effectiveness: Lessons from Malawi. Paper presented at the Academy for Global Business Advancement’s (AGBA) 14th World Congress on “Business and Entrepreneurship Development in a Globalized Era” held at Moi University, Eldoret, Kenya in November 2018.

Sepula, M. B. Assessing determinants of consumer perceptions of service quality, its improvement and image in Malawian Lodges: The employees’ perspective. Paper presented at ATLAS Africa Conference 2017 on “Africa's Tourism and Travel Competitiveness: Opportunities and challenges” held at Moi University, Eldoret, Kenya in June 2017.

Sepula, M. B. Influence of hotel grading system on the relationship between service quality and customer satisfaction in selected star-rated hotels in Malawi. Paper presented at ATLAS Africa Conference 2017 on “Africa's Tourism and Travel Competitiveness: Opportunities and challenges” held at Moi University, Eldoret, Kenya in June 2017.

Shirandula, D. and **Sepula, M. B.** Relationship between gender and proactive work behaviour in the Kenya’s hotel industry. Paper presented at ATLAS Africa Conference 2017 on “Africa's Tourism and Travel Competitiveness: Opportunities and challenges” held at Moi University, Eldoret, Kenya in June 2017.

DEPARTMENT OF TOURISM

The Department of Tourism was opened in 2007 as one of the two maiden departments in a newly founded Faculty of Tourism and Hospitality Management. With an initial student population of only 20, the Department has seen tremendous growth in the number of applicants as well as admissions into its programmes which has also grown from one to four. Boasting ten years of service excellence in the Tourism Education Sector, the Department is dedicated to ensuring that the right crop of students enter onto the tourism job market in Malawi and abroad.

The interplay of staff enthusiasm, expertise, dedication to service quality and good relationship with the industry, empowers our students to develop professional skills relevant for the industry with confidence to deliver. The Department emphasises diligence in teaching, student experience and constant contact with the communities we operate in.

Mission

To provide high quality tourism education, training and research and complimentary services in partnership with the tourism industry, to meet the political, social, technological, and economic needs of the tourism industry, individuals and communities in Malawi.

RESEARCH AREAS

Members of staff in the Department of Tourism carry out research in the following areas: Tourism development, sustainable tourism, and tourism marketing.

JAMES MALITONI CHILEMBWE, MSc; BSc; Adv. Dip. IATA; Dip. Tou. Mgt; Cert. GDS

Orchid Id: <https://Orcid.org/0000-0002-3482-5073>

RESEARCH INTERESTS

- Tourism Transportation
- Tour Operations and Management
- Travel Operations and Management
- Travel and Tourism Sustainability
- Travel Information Technology

Title of Master's Dissertation

Evaluation of service quality, value and satisfaction of Air Transportation in Malawi: A case study of Air Malawi

BOOK CHAPTER PUBLICATIONS

Chilembwe, J.M. and Mweiwa, V.R. (2019), "Responsible travel and tourism adventure: evidence from Malawi as a tourist destination", in Sharma, A. (Eds.), *Sustainable Tourism Development: Futuristic Approaches*, Florida, USA: Apple Academic Press, Inc, pp. 31-53.

Chilembwe, J.M., Mweiwa, V.R. and Mankhomwa, E. (2018), "Role of tour operators in destination tourism marketing in Malawi", in Camilleri, M.A. (Eds.), *Strategic Perspectives in Destination Marketing*, Hershey, PA: IGI Global Publishers, pp. 295-321.

Chilembwe, J.M. and Sepula, M.B. (2017), "Corporate social responsibility practices in the tourism and hospitality industry in Malawi", in Koutra, C. (Ed.), *Social Responsibility: Application of Good Practices and Malpractices in Tourism and Hospitality Industry in the Developing World*, Hauppauge, New York: Nova Science Publishers, pp. 87-118.

JOURNAL PUBLICATIONS

Chilembwe, J.M. (2017), "Bicycles transport sustainability opportunities for tourism development: Case study of Mzuzu City, Malawi", *International Journal of Tourism & Hospitality Reviews (IJTHR)*, Vol. 4 No. 1, pp. 1- 9.

Chilembwe, J.M. and Mponda, I.K. (2016), "Tourism sustainable governance practices in Malawi as a tourist destination: The challenges and opportunities for tourism development", *Tourism Spectrum*, Vol. 2 No. 1, pp. 1-10.

GRACE KAMANGA, MSc; BSc

ORCID: <https://orcid.org/0000-0002-2381-6059>

RESEARCH INTERESTS

- Top of Form
- Bottom of Form
- Destination management
- Sustainable tourism
- Tourism and education
- Tourism marketing
- Tourism security

Title of Master's Dissertation

Corporate social responsibility practices in the tourism industry in Malawi

BOOK CHAPTER PUBLICATIONS

Kamanga, G. and Njoloma, E. (2019), "The socio-economic impact of tourism on local community in Nkhata Bay District, Malawi", in Gursory, D. and Nunkoo, R. (Eds.), *The Routledge Handbook of Tourism Impacts: Theoretical and Applied Perspectives*, London: Routledge, pp. 265-277.

JOURNAL ARTICLE PUBLICATIONS

Bello, F., **Kamanga, G.** and Jamu, E.S. (2019), "Skills gaps and training needs in the tourism sector in Malawi", *African Journal of Hospitality, Tourism and Leisure*, Vol. 8 No. 4, pp. 1 - 18.

Njoloma, E., and **Kamanga, G.** (2019), "The effects of crime on tourists' travel decisions to Malawi", *African Journal of Hospitality, Tourism and Leisure*, Vol. 8 No. 3, pp. 1-11.

Mzembe, A. N., Novakovic, Y., Melissen, F. and **Kamanga, G.** (2019), "Institutional bricolage as an antecedent of social value creation in a developing country's tourism and hospitality industry", *Corporate Social Responsibility and Environmental Management*. DoI: <https://doi.org/10.1002/csr.1740>.

Bello, F. G. and **Kamanga, G.** (2018), "Drivers and barriers of corporate social responsibility in the tourism industry: The case of Malawi", *Development Southern Africa*. DOI: 10.1080/0376835X.2018.1555028.

Kamanga, G. and Bello, F.G. (2018), "Exploring corporate social responsibility (CSR) in the tourism industry: The case of Malawi", *Tourism Review International*, Vol. 22 No. 2, pp. 117-130.

Bello, F.G., Banda, W. and **Kamanga, G.** (2017), "Corporate social responsibility (CSR) practices in the hospitality industry in Malawi", *African Journal of Hospitality, Tourism and Leisure*, Vol. 6 No. 3, pp. 1-21.

CONFERENCE PAPERS

Mzembe, A.N. and **Kamanga, G.** Exploring the role of founders' identities and motivations in social value creation in the Malawian Tourism and Hospitality Industry. Paper presented at the European Academy of Management (EURAM) conference held in Lisbon, Portugal from 26 – 28 June, 2019.

LIBRARY AND LEARNING RESOURCES CENTRE

The Library and Learning Resources Centre (LLRC) is the information hub of the University. It caters for the information needs of its clients (academic and non-academic staff, students, administrative staff and other researchers). Some of the core activities undertaken by the LLRC include managing information literacy sessions of its clients, assisting in literature searches of staff and students, advising on appropriate and ethical citation of information sources used, among others. Moreover, the LLRC staff undertake consultancies related to the setting up of new libraries and information centres and carry out library visits as part of the outreach mission.

The LLRC has six main sections that include Readers Services, Serials and Periodicals, Malawiana and Special Collections, Technical Services, Children's and Outreach Services, and Administration. Each of these sections are headed by an Assistant Librarian who belong to the academic staff cadre of the University.

VISION

To be a leading, dynamic, inclusive and innovative library and learning resources centre in Malawi and beyond in providing and facilitating access to, and use of up-to-date information to support teaching, learning, research and outreach activities.

MISSION

To provide up-to-date and relevant information resources; promote the effective utilisation of those resources; and facilitate rapid access to information held within and in remote places through conventional and electronic means to Mzuzu University community and other stakeholders.

RESEARCH ACTIVITIES

LLRC staff carry out research in areas of pressing need. These endeavours have given rise to research out in terms of technical reports, conference and seminar papers, journal articles, books and book chapters. Much of the research output attributed to the LLRC staff falls within the broad areas of ICT application in libraries and information centres, information behaviour, information literacy, social inclusion of information centres, youth and children information services, disaster management in information centres, and use of open source information resources. The profiles and research out of LLRC staff are presented below.

AUBREY HARVEY CHAPUTULA, PhD; MLIS; BA (Ed)

ORCID id: <http://orcid.org/0000-0003-3753-9934>

RESEARCH INTERESTS

- CT applications in libraries
- Collection development and management
- Training and human resource issues in libraries
- Social media applications in libraries
- Social inclusiveness in information centres

Title of PhD Thesis

eReadiness of public university libraries in Malawi with special reference to the use of mobile phones in the provision of library and information services

Title of Master's Dissertation

The development of academic library collection in Malawi: A case of Chancellor College Library

JOURNAL PUBLICATIONS

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MALOTO CHAURA, MLIS; BLIS; Dip. (LIS)

RESEARCH INTERESTS

- Information behavior of library users
- Information literacy

Title of Master's dissertation

Information Behaviour of Fourth Year Students of Mzuzu University in Malawi

JOURNAL PUBLICATIONS

Chipeta, G., Dube, G., Chawinga, W., Malemia, L. and **Chaura, M.** (2018), "Information-seeking behavior of first-year undergraduate students at Mzuzu University, Malawi", *Mousion*, Vol. 16 No. 1, pp. 1-18.

CONFERENCE PAPERS

Malemia, L., Abdullah, H., Dube, G. and **Chaura, M.** Inclusive academic libraries in the 21st Century: a comparative study of Mzuzu University Library and St. John of God College of Health Sciences Library in Mzuzu, Malawi. Paper presented at XXIII Standing Conference of Eastern, Central and Southern African Library and Information Associations organized by the Uganda Library and Information Association held at the Imperial Resort Beach Hotel, Entebbe, Uganda from 23rd to 27th April 2018.

Chaura, M., Malemia, L. and Ngwira, F. Exploring the role of library and librarians in research support services: case study of Mzuzu University and Learning Resources Centre, Malawi. Paper presented at the 4th Zimbabwe University Libraries Consortium held at ZESA National Training Centre, Harare, Zimbabwe from 27th -29th March 2019.

Malemia, L., **Chaura, M.** and Abdullah, H. The academic library in the 21st Century: service quality and user satisfaction at Mzuzu University Library. Paper presented at the 4th Zimbabwe University Libraries Consortium held at ZESA National Training Centre, Harare, Zimbabwe from 27th -29th March 2019.

GIFT ALFRED DUBE, MSc (LIS); BA (Ed)

RESEARCH INTERESTS

- Children and youth information service
- Libraries and literacy development
- Information seeking behavior of adolescents
- Technology and literacy development
- Internet safety for children and youth

Title of Master's Dissertation

Funding school libraries in Malawi

JOURNAL PUBLICATIONS

Thindwa, T., Chawinga, W.D. and **Dube, G.** (2019), "Information - seeking behavior of security studies students: A case study", *South African Journal of Information Management*, Vol. 21 No. 1, pp. 1-10.

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Dube, G.A.B., Kanyundo, A.J. and Majawa, F.P. Coping with fire disaster at Mzuzu University: Experiences from librarians and students. Proceedings of the XXIII Standing Conference of Eastern, Central and Southern African Library and Information Associations organized by the Uganda Library and Information Association held at the Imperial Resort Beach Hotel, Entebbe, Uganda from 23rd to 27th April 2018, pp. 147-167.

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FELIX MAJAWA, MLIS; BA (HRM)

RESEARCH INTERESTS

- Digital Library Management
- Open Access
- Social Media
- Library Disaster Management

Title of Master's Dissertation

Implementation of digital libraries: Case of Bunda College of Agriculture Library

JOURNAL PUBLICATIONS

Chawinga, W. D. and **Majawa, F. P.** (2018), "An Assessment of Mzuzu University Library after a fire Disaster", *African Journal of Library, Archives and Information Science*, Vol. 28 No. 2, pp. 183-194.

CONFERENCE PAPERS

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Ngwira, F. and **Majawa, F.** Disseminating Agricultural Information Services to Farmers for Attaining Food Security in Zombwe Extension Planning Areas (EPA), Mzuzu Agricultural Development Division (MZADD) Mzimba, Malawi. Paper presented at the 23rd Standing Conference of Eastern, Central and Southern Africa Library and Information Associations held in Entebbe, Uganda from 23-27 April 2018.

Lubanga, S., Chawinga, W., Kapondera, S. and **Majawa, F.** Web based Student Information Management System in Universities: Experiences from Mzuzu University. Paper presented at the 23rd Standing Conference of Eastern, Central and Southern Africa Library and Information Associations held in Entebbe, Uganda from 23-27 April 2018.

LIZZIE MALEMIA, MLIS; BSc (Ed)

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RESEARCH INTERESTS

- Information Behaviour
- Information Literacy

Title of Master's Dissertation

The use of electronic journal articles by academics at Mzuzu University, Malawi.

JOURNAL PUBLICATIONS

Chipeta, G. T., Dube, G. A. B., **Malemia, L.**, Chaura, M. G., and Chawinga, W. D. (2018) "Information seeking behavior of first year undergraduate students at Mzuzu University, Malawi", *Mousaion: South African Journal of Information Studies*, Vol 36, No. 1, pp. 1-18.

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Malemia, L., Abdullah, H., Dube, G., and Chaura, M. Inclusive academic libraries in the 21st Century: a comparative study of Mzuzu University Library and St. John of God College of Health Sciences' Paper presented at the SCECSAL XXIII Positioning Library and Information Services to achieve Sustainable Development: innovations and partnerships held in Entebbe, Uganda, 23rd – 27th April, 2018.

About the editor



Aubrey Chaputula (PhD) obtained his Master of Library and Information Studies (MLIS) degree from the University of Botswana in 2009, and PhD (Information Studies) from the University of KwaZulu-Natal, South Africa, in 2017. He has attained the rank of Associate Professor, and is currently working as Readers Services Librarian at Mzuzu University. He has also worked as an Adjunct member of staff in the Department of Information Science at Mzuzu University. Dr Chaputula has served as reviewer for several journals under the Emerald and Sage Publications such as Electronic Library, Library Review, Library High Tech and Information Development. He also serves as postgraduate external examiner for the University of Cape Town and University of KwaZulu Natal. His research interests are in the fields of ICT applications in libraries, ICT4D, collection development and management, use of social media and mobile applications in libraries, and disability and inclusiveness in libraries.