

Uganda Library and Information Association



Building an Inclusive Open Science Ecosystem: The Contribution of Libraries and Librarians

Positioning Ugandan Libraries as Strategic Partners in National Development

Uganda Open Science Stakeholders' Meeting

Dr. Fredrick Kiwuwa Lugya

President/ University Librarian

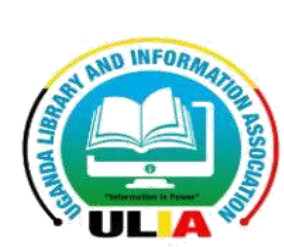
Uganda Library and Information Association/ Busitema University

Wednesday 12 September, 2025

Introduction

Key Points:

- ULIA - Who We Are
- Open Science Ecosystem - Inclusivity
- Library Evolution Timeline
- Core Contribution of Libraries and Librarians
- Strategic Collaboration for OS
- Libraries as fundamental, not peripheral



ULIA's Mission and Vision

Founded in 1973, ULIA – legalized - has served as the unifying voice for library professionals for over five decades.

Slogan: Transforming Lives Through Libraries and Information

Vision: A Uganda where libraries are at the heart of education, innovation, and community development.

Mission: To unite, advocate for, and empower professionals and institutions to deliver transformative services through collaboration, education, and innovation, ensuring access to information for all.

Core Principles

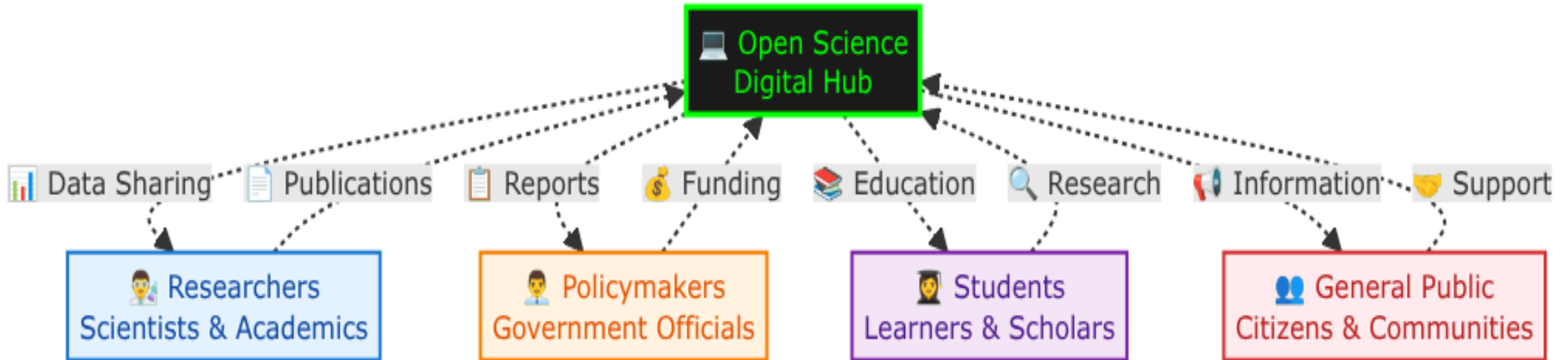
- 1. Equity and Inclusion:** Ensure access to information for all, regardless of socio-economic status, location, or ability.
- 2. Professionalism:** Uphold the highest standards of ethics and professionalism in library and information services.
- 3. Collaboration:** Foster partnerships with stakeholders to advance the library and information sector.
- 4. Innovation:** Embrace technology and innovative practices to enhance service delivery.
- 5. Sustainability:** Promote sustainable practices in library and information management.

Strategic Goals/ Objectives – SP 2025/30

1. Strengthening Advocacy and Policy Influence
2. Enhancing Professional Development and Capacity Building
3. Promoting Access to Information and Knowledge
4. Fostering Collaboration and Partnerships
5. Advancing Innovation and Technology Integration
6. Ensuring Organizational Sustainability

The Vision of an Inclusive Open Science Ecosystem

Open Science Digital Hub - Human-Centered Network



The Library Evolution Timeline: From Traditional Repositories to Open Science Hubs

Past

Present

Future

Traditional Libraries

Digital Libraries

Open Science Hubs

-  Custodians of physical collections
-  Focus on books and printed journals
-  Passive knowledge repositories
-  Limited to physical access

-  Curators of digital resources
-  Electronic access providers
-  Online catalogs and databases
-  Digital search and discovery tools

-  Active research partners
-  Data management support
-  Publishing and preservation services
-  Digital literacy training
-  Full research lifecycle integration

Core Contribution 1: Building and Managing the Infrastructure

Libraries'
Core Infrastructure
Contribute to
Open Science

Connects to



Institutional Repositories (IRs)

-  Hosting research output from Ugandan institutions
-  Ensuring global visibility of local research
-  Providing long-term preservation services

Supports



Persistent Identifiers (PIDs)

-  Supporting ORCID iDs for researcher identification
-  Implementing DOIs for publications and datasets
-  Ensuring proper attribution and citation tracking

Links with



Research Data Management (RDM) Support

-  Guiding researchers in creating data management plans
-  Offering data storage solutions and infrastructure
-  Facilitating data sharing best practices

Information Retrieval Systems

Google Scholar

fake news





Articles

About 1,540,000 results (0.10 sec)

My profile

My library

Any time

Since 2025

Since 2024

Since 2021

Custom range...

Sort by relevance

Sort by date

Any type

Review articles

☐ include patents

☒ include citations

☒ Create alert

The science of fake news

[DMJ Lazer](#), [MA Baum](#), [Y Benkler](#), [AJ Berinsky](#)... - Science, 2018 - science.org

... What Is **Fake News**? We define "**fake news**" to be fabricated information that mimics **news** media ... **Fake-news** outlets, in turn, lack the **news** media's editorial norms and processes for ...

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Social media and fake news in the 2016 election

[H Allcott](#), [M Gentzkow](#) - Journal of economic perspectives, 2017 - aeaweb.org

... We begin by discussing the economics of **fake news**. We sketch a model of media markets ... We conceptualize **fake news** as distorted signals uncorrelated with the truth. **Fake news** ...

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[HTML] The psychology of fake news

[G Pennycook](#), [DG Rand](#) - Trends in cognitive sciences, 2021 - cell.com

... **news** favoring Donald Trump). This estimate represents a lower bound since it only reflects that specific set of known **false news**. ... to visit **fake news** websites or share **fake news** articles ...

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Fake news: A definition

[A Gelfert](#) - Informal logic, 2018 - erudit.org

... of **fake news**, ... **fake news** to target specific audiences and exploit well-documented cognitive biases and heuristics in an attempt to mislead consumers into propagating **fake news** ...

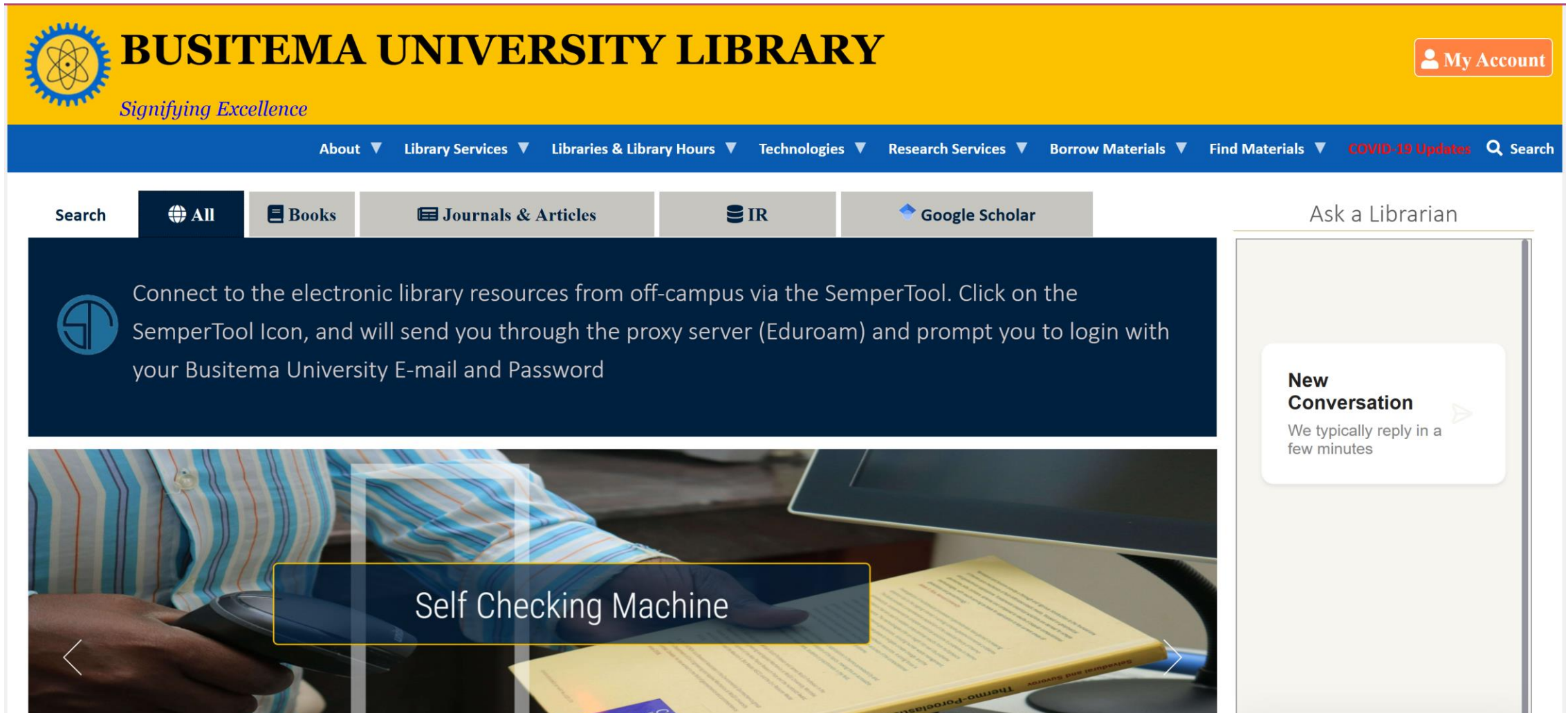
[PDF] arxiv.org

[PDF] aeaweb.org

[HTML] cell.com

[PDF] erudit.org

Core Contribution 1: Library Portal/ Gateway

This is a screenshot of the Busitema University Library website. The header is yellow with the university logo and name, and a "My Account" button. Below is a blue navigation bar with various service links. The main content area has a dark blue banner for the SemperTool and a carousel for a self-checking machine. A sidebar on the right contains a chatbot for asking a librarian.

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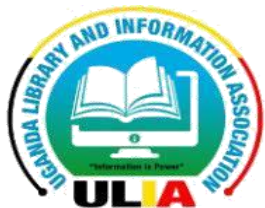
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 Connect to the electronic library resources from off-campus via the SemperTool. Click on the SemperTool Icon, and will send you through the proxy server (Eduroam) and prompt you to login with your Busitema University E-mail and Password

Self Checking Machine

Ask a Librarian

New Conversation
We typically reply in a few minutes



Library Catalogue



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Busitema Library Catalog

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New Arrivals



[Normal view](#) | [MARC view](#) | [ISBD view](#)

Presentation to the parliamentary sectoral committee of education and sports on January 12th, 2023 : budget framework paper for financial year 2023/24 for vote 305 / Paul Waako

By: Waako, Paul

Publication details: Busia : Busitema University, 2023

Description: [various paging] : ill. ; 30cm

Subject(s): [Budget framework](#)

DDC classification: 23 658.154 WAA

Tags from this library: No tags from this library for this title. [Log in to add tags.](#)

★★★★★ Average rating: 0.0 (0 votes)

Holdings (1)

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Item type	Current library	Call number	Status	Date due
 Book Closed Access	Engineering Library	658.154 WAA (Browse shelf)	Available	

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Institutional Repository



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BDEARS, the Busitema Digital Environment for Access to Research and Scholarship, collects, disseminates, and provides persistent and reliable access to the research and scholarship of academic and administrative staff, and students (Graduates and Undergraduates) at Busitema University

- Academic staff and graduate students can deposit their research and scholarship directly into BDEARS. Academic staff may use BDEARS to fulfill [Busitema University open access policy](#), and in many cases may use it to fulfill open

Busitema University IR Home → Filter by: Author

ABCDEFGHIJKLMNOPQRSTUVWXYZ

Starts with Go

Results Per Page: 10 update

Filter by: Author

Now showing items 1-10 of 3985

[Aanyu, Ann Grace](#). (1)

[Aanyu, Betty](#). (1)

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[Aanyu, Sarah Asilo](#). (1)

[Aarakit, Mary](#). (1)

[Abaasa, Patrick](#). (1)

[Abaho, Daphine](#). (1)

[Abaho, Vicent](#). (1)

[Abaine, Ambrose](#). (1)

Log in



Busitema University IR Home

BUOADIR Repository

Busitema University IR is a digital service that collects, preserves, and distributes digital material. Repositories are important tools for preserving an organization's legacy; they facilitate digital preservation and scholarly communication.

Communities in BUOADIR

Select a community to browse its collections.

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- [Directorate of Quality Assurance](#)
- [Faculty of Agriculture and Animal Sciences](#)
- [Faculty of Engineering and Technology](#)
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[Busitema University Council](#). (20)
[Maitland, Kathryn](#). (20)

Profiling Research Projects

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Library Research and Projects

Library Research

Library Projects

KOHA Data Loss and Recovery

Data Loss

On Sunday 5, March 2023, there was a serious power instability that ended up crushing one of the 8 Library Management System Discs. This in turn crushed the Library Server and Library Systems like the Library Website, Library Catalogue, Full Text Database, Circulation Module and Subject Guides and eventually, a lot of data was lost. Some of these systems had a backup while others didn't have backups. Those systems that had backups like the Library Website were fully restored by migrating the backed-up data to one of the available redundant University Servers. Nagongera Campus Library as well as Maritime Institute Library were greatly affected. Also greatly affected was the Full Text Database which, unfortunately had no back up.

PIs

Dr. Fredrick Kiwuwa Lugya

Mr. Isaac Mukungu

Library Research and Projects

Library Research

Library Projects

PIs

Dr. Fredrick Kiwuwa Lugya

Mr. Isaac Mukungu

Datacite & Open Scholarship Cadres for Uganda

BUILDING A COHORT OF OPEN SCHOLARSHIP



TRAINERS

(DOSCU)

@ THE LIBRARY E-LEARNING CENTER



The DataCite and Open Scholarship workshop is organised by [Busitema University Library](#) with support from [DataCite's Global Access Fund \(GAF\)](#). The Global Access Fund (GAF) was established to enable communities worldwide to make their research outputs discoverable. In this project: **"Building a cohort of open scholarship trainers to boost adoption of DataCite open infrastructure services among the Consortium of Uganda University Libraries"** Busitema University Library has developed and will deliver a five-day training trainers' workshop to a



≡ Google Scholar



 FOLLOWING

Verified email at busitema.ac.ug - [Homepage](#)

Human computer interaction Search discovery systems Context in HIB Information behavior
Online

☐ TITLE

TITLE



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YEAR

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|--------------------------|--|----|------|
| ☐ | What counts as a science and discipline in library and information science?
FK Lugya
Library Review 63 (1/2), 138-155 | 36 | 2014 |
| ☐ | User-friendly libraries for active teaching and learning: A case of business, technical and vocational education and training colleges in Uganda
FK Lugya
Information and Learning Science 119 (5/6), 275-294 | 26 | 2018 |
| ☐ | Next generation catalogues: an analysis of user search strategies and behavior
FK Lugya
University of Illinois at Urbana-Champaign | 5 | 2016 |
| ☐ | Successful resource sharing in academic and research libraries in Illinois
FK Lugya
University of Illinois. | 5 | 2010 |

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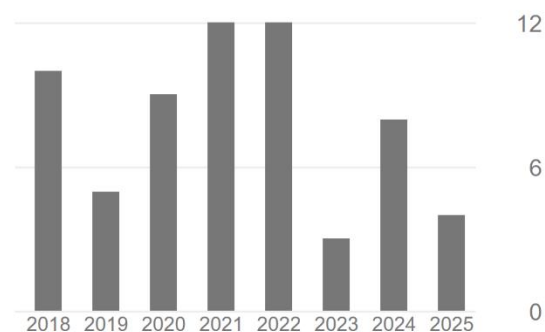
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Co-authors

EDIT



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Professor of Digital Library, Univ...

Personal Profiles - ORCiDs

ORCID

Connecting research and researchers

 **Fredrick Kiwuwa Lugya** ▾



English ▾

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iD

[https://orcid.org/
0000-0002-1901-2592](https://orcid.org/0000-0002-1901-2592)

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Email addresses

flugya@gmail.com 

Verified email domains

No verified email domains

Names

Published name

Fredrick Kiwuwa Lugya 

Name

Fredrick Kiwuwa Lugya

Biography

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Dr. Fredrick Kiwuwa Lugya

University Librarian

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Dr. Fredrick Kiwuwa Lugya



Ph.D. Library and Information Science,
University of Illinois

**University Librarian & Chief Records, Archives and
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Busitema

Office Hours: On Appointment, Rm 013 Engineering Library
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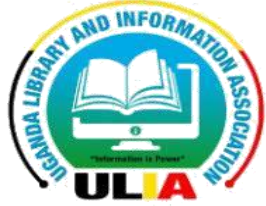
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Taxonomy of context in human information behavior

Article

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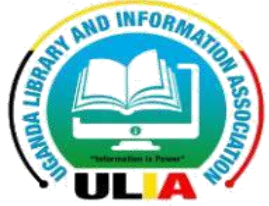


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The Library at Makerere
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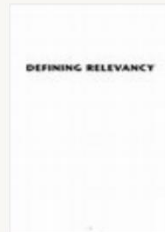
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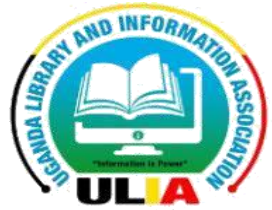
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iSchools Building on the Strengths Found in the
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Library's role in overcoming barriers to information



Professional Organizations



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Location: Home >> Anatomy & Radiology >> (Professional Organisations)

Anatomy & Radiology

A Library Subject Guide providing suggested resources and other information for beginning research about **Anatomy & Radiology**.

About

Background Resources

Journal Databases

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Professional Organisations

Legislations and Policies

Text Books

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Professional Bodies

Association of Radiologists of Uganda, ARU

ARU is a medical fraternity that believes in the continuous growth and transformation of individuals to lead the transformative change in the way diagnostic and therapeutic procedures are performed to ensure the delivery of better medical care and treatment. It promotes quality therapeutic and diagnostic procedures through stakeholder engagements, community outreach programs, continuing education and knowledge sharing.

See also [Anatomy Journal of Africa](#)

Society of Radiography Uganda

The Society of Radiography of Uganda is a Non-Profit making Company of Radiation Therapists in a myriad of Imaging and Therapeutic Modalities ranging from Radiology, Radiography, Radiology, Magnetic Resonance Imaging, Computed Tomography, Angiography, Magnetic Resonance Imaging.

The Society of Radiography in Kenya (SORK)

The Society of Radiography in Kenya (SORK) is a professional body that caters for the needs of Radiographers in Kenya. The Society is affiliated to related professional and community bodies such as the International Association of Radiographers (IAR), International Society of Radiographers (ISRRT), Association of professional societies in East Africa (ASPEA).

Kenya Association of Radiologists



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WLIC 2025

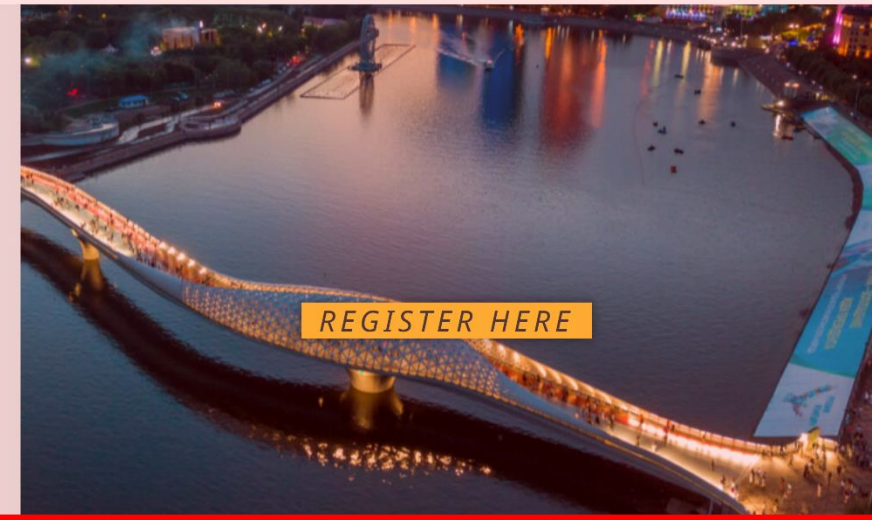
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[READ THE WELCOME MESSAGE FROM THE NATIONAL COMMITTEE HERE](#)



IFLA invites you to join the 89th World Library and Information Congress that will take place in the Congress Centre in Astana, Kazakhstan. It will be the first WLIC in the region with great keynote and

[REGISTER HERE](#)



Evaluation of the effect of deficit irrigation scenarios on maize production for irrigation water management :

Isabirye, Daniel Ronald

URI: <https://doi.org/10.60682/t9wk-pm40>

Date: 2024

Abstract:

There is a negative impact on rainfall pattern & water resources caused due to global climate change. This has eventually affected maize production. This study analyzed the effect of deficit irrigation scenarios on maize production for irrigation water management, where three treatments (Control 100%, 80%, 50% deficit irrigation strategies of crop water needs) were implemented. Daily weather parameters like rainfall/precipitation, temperature, humidity, radiation, wind speed among others were downloaded from NASAPOWER website & reference evapotranspiration, ETo calculated using the Penman Monteith equation. The results indicate that the estimated ETo is found highest in the mid-season stage and lowest in the initial stage. Evaporation pan was used at the site to estimate ETo. Agronomic measurements of leaf length, width and height and estimation of leaf area index, soil textural analysis, infiltration and hydraulic conductivity were carried out, soil moisture sensors used in recording of soil moisture, temperature, bulk electric conductivity status of the soil.

Description:

Dissertation

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Research Guides/ Pathfinders

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Agribusiness

A Library Subject Guide providing suggested resources and other information for beginning research about **Agribusiness**.

About

Background Resources

Journal Databases

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Legislations and Policies

Text Books

Scholars

Introduction to Agribusiness

Agribusiness is the business sector encompassing farming and farming-related commercial activities. It involves all the steps required to send an agricultural good to market, namely production, processing, and distribution. This industry is an important component of the economy in countries with arable land since agricultural products can be exported. Agribusiness is a method of describing organizations and ventures that are identified and developing with handling food and other farm products. Agribusiness is additionally used to explain organizations that are engaged with promotion and delivery of farm items. These organizations include distribution centres, whole sellers, processors, retailers and a lot of other things. Any organization that participates in creation, promotion, and delivery of food is associated with agribusiness. It is like any other business but it's limited to agricultural products.

Click to [Learn About Agribusiness](#)

The name suggests, "**AGRI**" stands for Agriculture, and the term "**Business**". This is also done on global level. Most practitioners state that this term "Agribusiness" was coined by professors **John Devis** and **Ray Goldberg** after they published a book called A concept of agribusiness.

Career opportunities

Agriculture business management programme are specially developed to focus on business and trade. A degree in agribusiness offers opportunities in financing, marketing and management. A wide range of career opportunities are available:

- Agricultural Law
- Business ownership

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Scholars

Scholars in the field of Anatomy and Radiology

Professor Julius Wandabwa, Busitema University

Ph.D., Medicine (obstetrics and gynecology), University of London

Research focus

- Severe Maternal Morbidity and Mortality
- Obstetrics and gynecology
- Pregnancy

Dr. Yahaya Gavamukulya, Busitema University

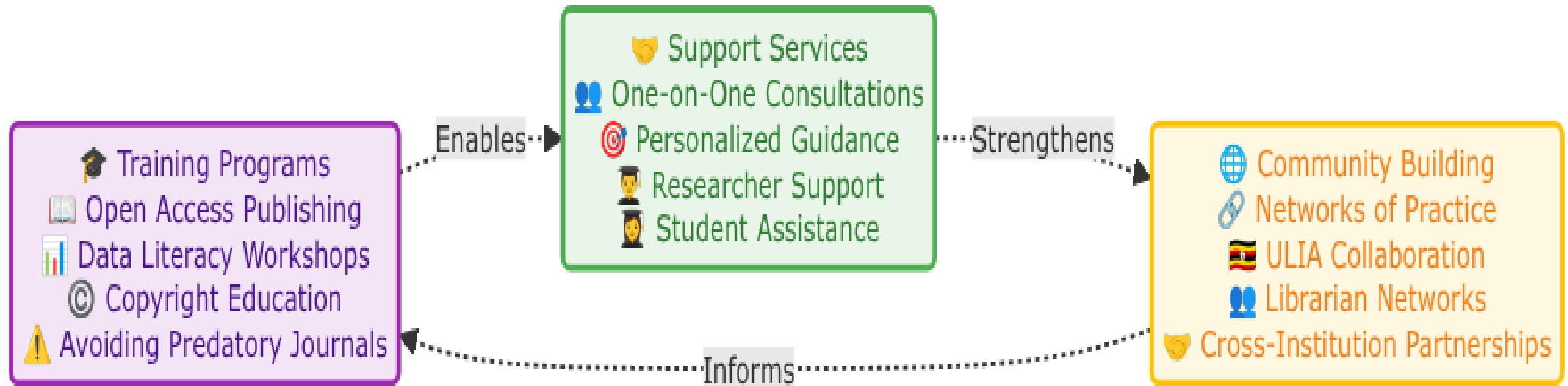
Ph.D., Molecular Biology & Biochemistry

Research focus

- Cancer Biology
- Drug Discovery
- Molecular Diagnostics
- Natural Products Bioprospecting
- Green Nanobiotechnology

Dr. Jacob Stanley Iramiot, Busitema University

Core Contribution 2: Fostering Capacity and Literacy



Core Contribution 3: Championing Policy and Advocacy

Libraries serve as trusted advocates for policies that ensure knowledge is a public good

Informs

Institutional Policy Support (green oval)

-  University policy development assistance
-  Open access policy implementation
-  Data policy guidance and support
-  Policy compliance assistance

Implements

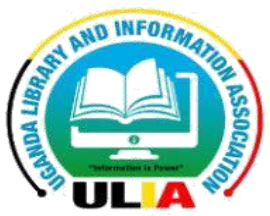
National Policy Advocacy (blue oval)

-  UG ULIA's voice in shaping national policy
-  Developing practical and inclusive policies
-  National open science framework development
-  Stakeholder collaboration and consultation

Strengthens

Ethical Standards Promotion (pink oval)

-  Intellectual property rights protection
-  Privacy protection principles
-  Ethical sharing standards
-  Responsible research practices



The ULIA Framework for Action: A Strategic Collaboration for Open Science



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- Integrate libraries into the National Open Science Roadmap – policy.
- Recognise libraries as essential infrastructure.
- Mandate and fund Institutional Repositories.
- Include librarians on research committees.
- Partner with Librarians early in your research projects for data management support.
- Collaborate on specialised capacity-building programs.



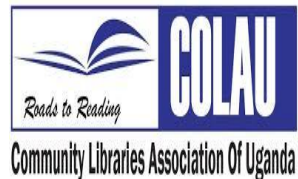
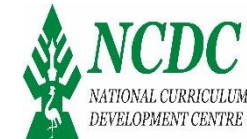
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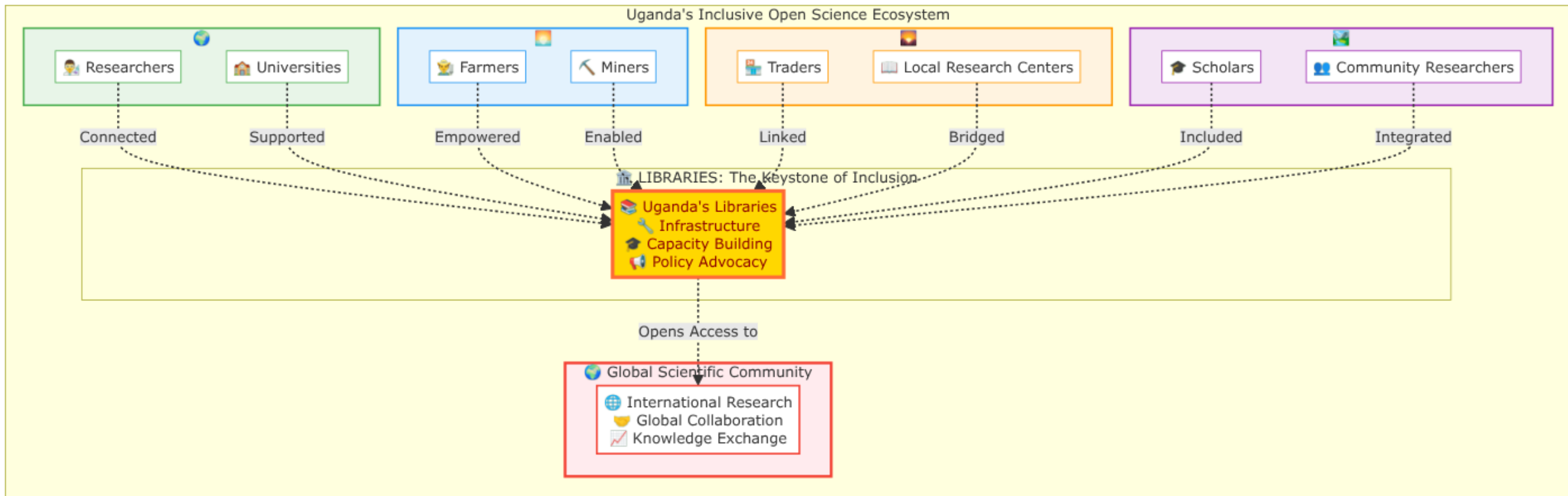
MAKING
UGANDA
THE BEST



National
Council for
Higher Education
Ensuring Quality for Excellence



Libraries as the Keystone of Uganda's Inclusive Open Science Ecosystem



For Uganda's Open Science ecosystem to be truly robust and inclusive, libraries must be recognized as fundamental, not peripheral.

These proposals are interlinked:

A. Jointly lobby to amend the Laws/ Acts

- Uganda National Library Act to legalise and institutionalise ULIA
- Local Gov't Act, and Education Act to institutionalise school librarian positions;

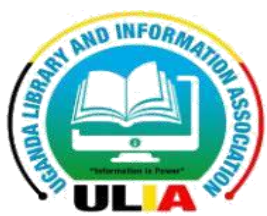
B. Jointly advocate for a National Digital Library hosted by RENU

C. Centralised government funding for national e-resource subscriptions - CUUL

D. Periodically conduct quality audits of libraries – National Surveys

E. Formalise ULIA's advisory role in policy formulation

F. Fund digital infrastructure and integrate library support – IR & RDM



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BUSITEMA RESEARCH HUB

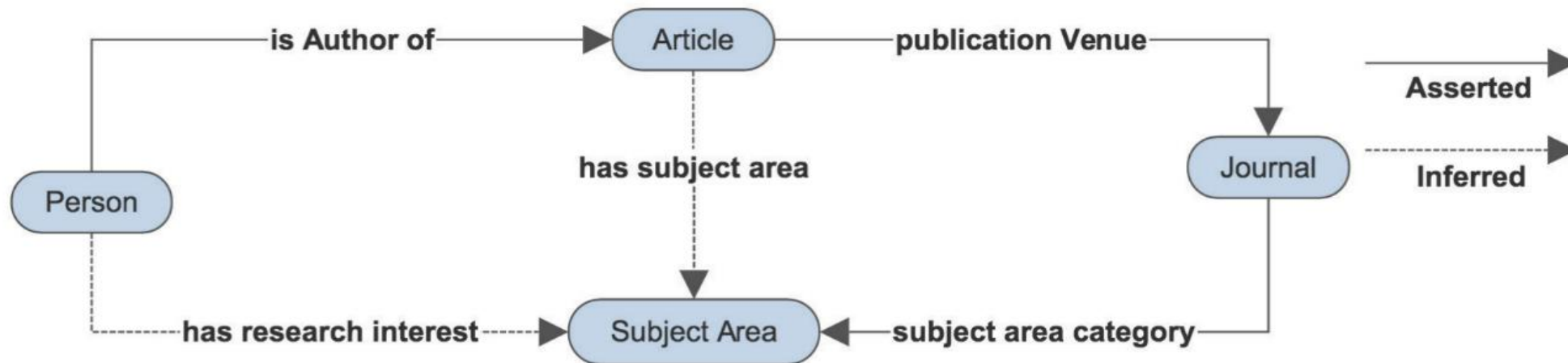
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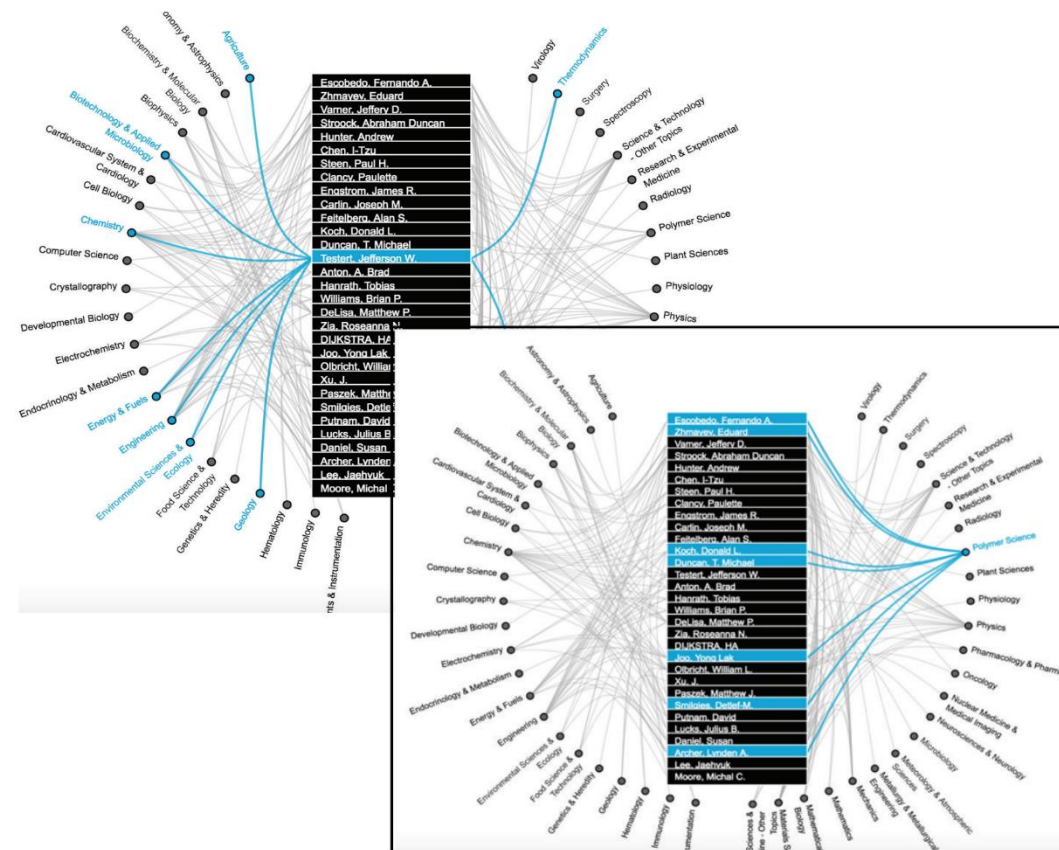
Busitema Research Hub is a research-focused discovery tool that enables collaboration among scholars of all disciplines.

Person-to-Subject-Area Mapping (Department level)



Concept map network - presenting Person-to-Subject-area (P2S) Map

Domain Expertise of a Scholar (Person level)



Animals

Tissue Engineering

Cartilage

Cells, Cultured

Collagen

Alginates

Biomechanics

Gels

Time Factors

Materials Testing

Implants, Experimental

Ear Cartilage

Recombinant Proteins

Male

Female

Glycoproteins

Glucuronic Acid

Hydroxyproline

Animals, Newborn

Disease Models, Animal

Intervertebral Disc

Cell Culture Techniques

Polylactic Acid

Cell Survival

Shear Strength

Models, Biological

Glycosaminoglycans

Chondrocytes

Rats

Mice

Cartilage

Neuronic Acids

Cell Adhesion

Friction

Extracellular Matrix

Stress, Mechanical

Mice, Nude

Collagen Type I

Sine

Montec, Thial

Female

Male

Biocompatible Materials

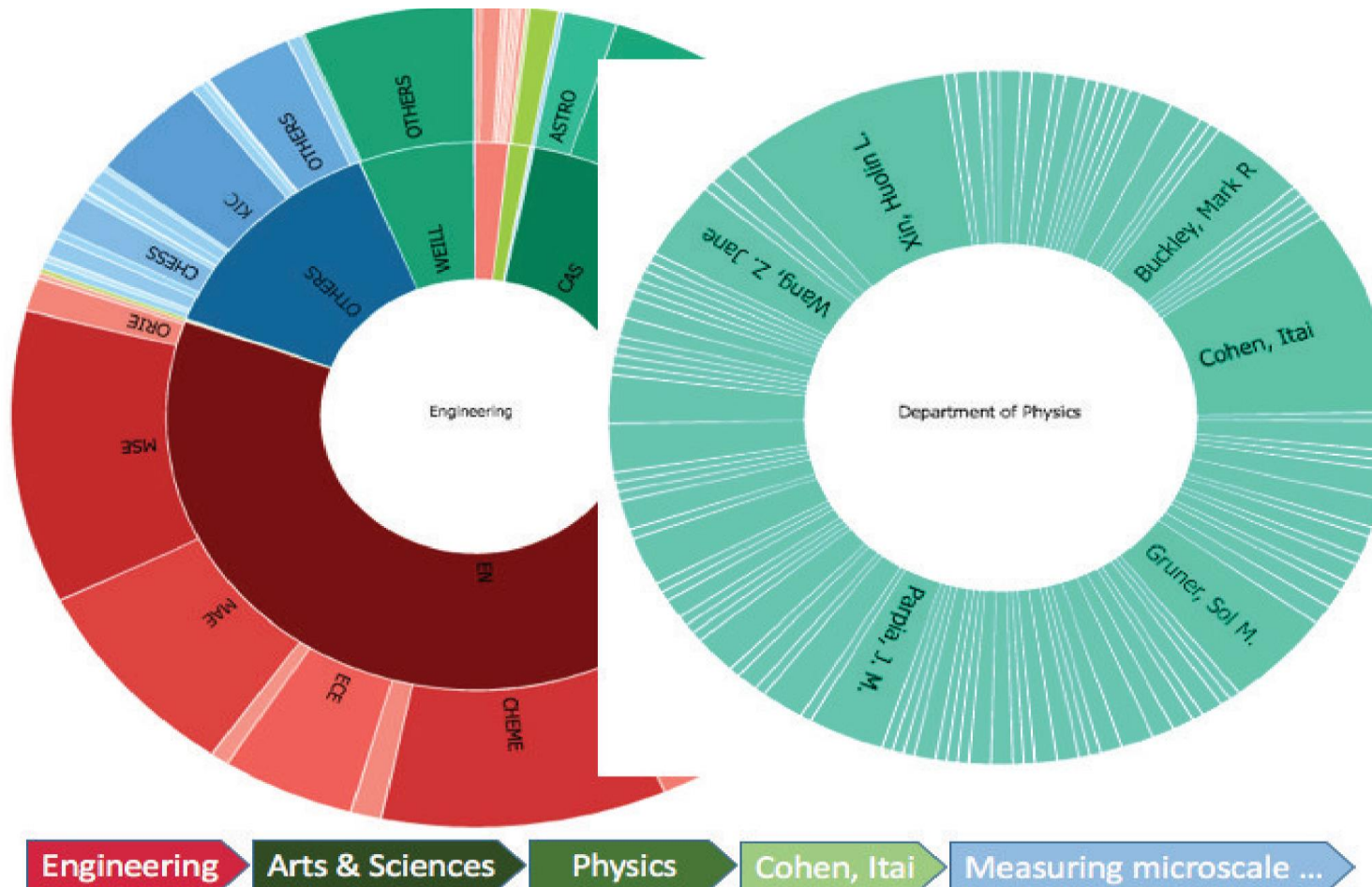
Purity

DMA

Male

Biomechanical Phenomena

Inter-unit/Cross-unit Collaborations (College level): Sunburst visualization - presenting inter-unit/cross-unit collaborations





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Events

2025

2022

2021

Success stories

Dr. Taako Edema George

