

SUMMER 2026



Research Club at CMU-Africa

NEWSLETTER



Carnegie
Mellon
University
Africa

Inside this Issue

- Welcome Remark
- Meet the Leadership Team
- Summer Students Spotlight
- Research Opportunities at CMU-Africa

**CMU-Africa Research Club
Welcomes**

Tartans Class of 2028

to

CMU-Africa



WELCOME REMARKS - RESEARCH CLUB



Dear Tartans of CMU-Africa,

A warm welcome to the 2026–2027 academic year and to the **Class of 2028** in particular. You've just joined one of the most ambitious research communities on the continent, and this newsletter is the Research Club's way of saying so. To the classes ahead of you: welcome back, and thank you for the shoulders the new cohort now stands on.

The mission has not changed. **CMU-Africa exists to build a transformative future for the continent, and research remains one of the sharpest instruments we have to do that.** What has changed, and you'll see it on the pages that follow, is the scale and reach of what our students are actually accomplishing. This past summer alone, Tartans represented the university across Africa, Europe, Asia, and Australia, published in international venues, and released open tools already being used by communities the wider AI world has overlooked. Read those pages closely. In a year or two, they'll be about you.

The Research Club is here to help you get there. This year, we remain committed to:

- Fostering connections - pairing you with faculty mentors and peers whose questions overlap with yours, because most good research starts with a good conversation.
- Amplifying your work - spotlighting the projects, papers, and prototypes coming out of our community, so what you build here doesn't stay here.
- Strengthening the culture - building a vibrant, supportive ecosystem that champions student-led inquiry, celebrates publication, and treats first attempts with the seriousness they deserve.

Research is a demanding pursuit - we won't pretend otherwise. It asks for late nights, a tolerance for being wrong in public, and the patience to sit with problems that don't yield on the first try. But the skills, the collaborators, and the solutions you develop here will follow you long after your time in Kigali, and the questions you choose to work on will help shape the continent for years to come.

To the Class of 2028: get involved early. Show up to the sessions, ask the naive questions (they are often the best ones), and find the people whose curiosity matches yours. To everyone: help us keep building the kind of research culture we all want to be part of.

Here's to a fantastic and productive year. We can't wait to see what you'll do.

~ The Research Club Leadership Team

Join our WhatsApp group [here](#)

Follow us on LinkedIn [here](#)

MEET THE LEADERSHIP

Meet the Research Club leadership team guiding our work this year. Get to know the students behind the sessions, spotlights, and initiatives - and join us in supporting the vision they're shaping for CMU-Africa. Their doors, and this club, are open to you.



Matewos Tegete Endaylalu
Chair

mendayla@andrew.cmu.edu



Zainab Akintayo
Vice Chair

zakintay@andrew.cmu.edu



Grace Kaimburi
Strategist

gkaimbur@andrew.cmu.edu



Paul Okwija Mugume
Public Relations
pom@andrew.cmu.edu



Jean Gabriel Mpuhwezimana
Community Engagement Officer
jmpuhwez@andrew.cmu.edu

To get started with research, begin by choosing a topic that genuinely interests you and reading a few recent, relevant papers to understand the current state of the field. Look for unanswered questions or areas that can be improved, and then formulate a focused, testable research question. Starting small - by reproducing an existing study and making incremental improvements - is often the most practical and effective way to build confidence and develop strong research skills.



SUMMER STUDENT SPOTLIGHT

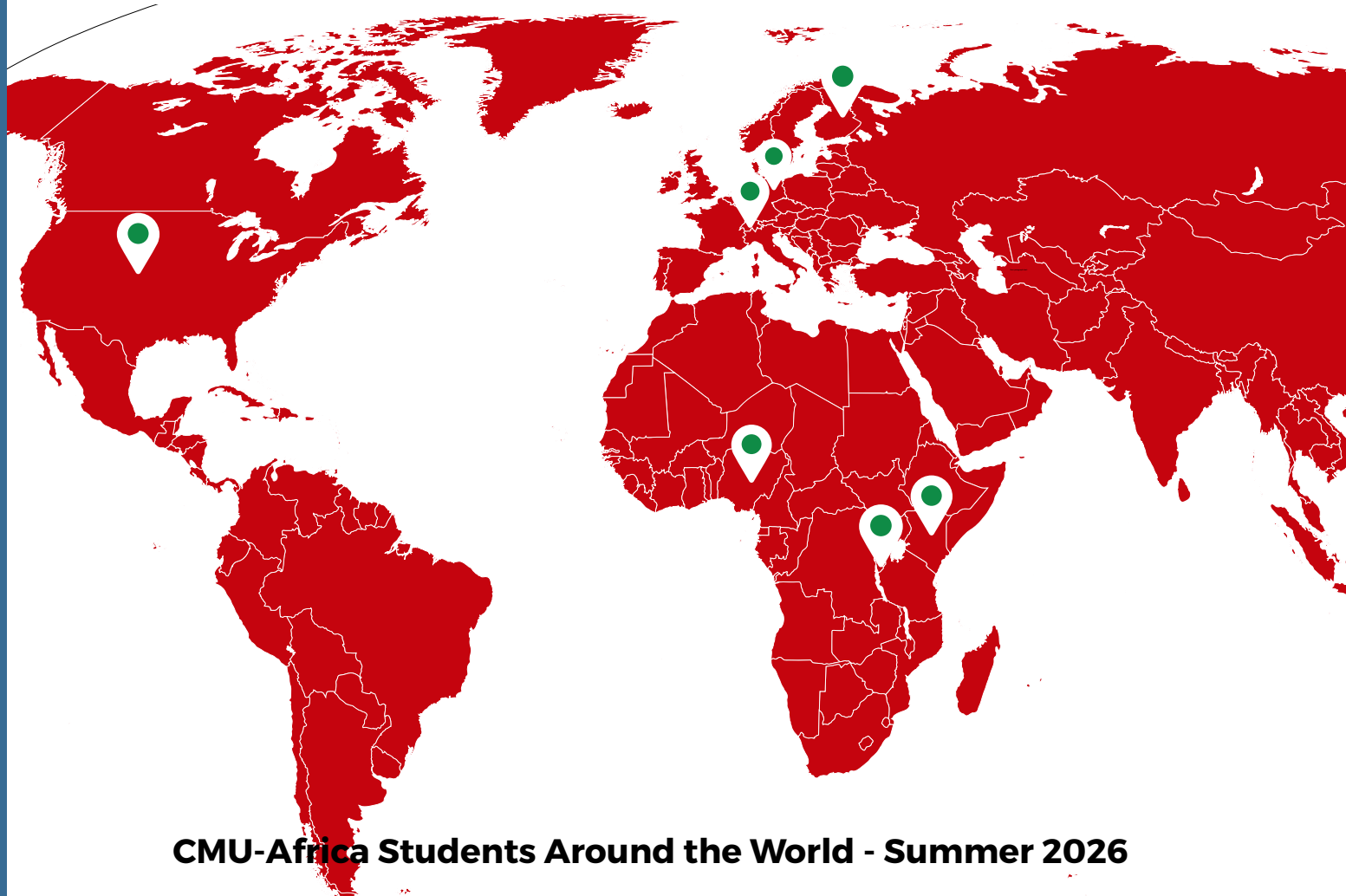
At CMU-Africa, the summer between first and second year is when many students take their most ambitious step outside the classroom. Some pursue industry internships - a requirement for MSIT students and a strong option for MSEAI and MSECE - while others use the time to go deeper into research: joining faculty projects, publishing papers, presenting at international conferences, or attending competitive summer schools abroad.

The CMU-Africa Career Services team and our faculty play a key role in surfacing these opportunities and supporting students through the application process. But the students themselves do the harder work - actively seeking opportunities worldwide, submitting papers to peer review, and taking full advantage of the summer to sharpen the skills that a busy academic semester rarely leaves room for.

In the following pages, we spotlight a select group of students from the MSEAI, MSIT, and MSECE programs whose summer work turned into published papers, awarded research, and formative experiences at leading international programs. They worked on problems that matter - from biomedical AI and African-language speech technology to microgrid safety and vision-language model efficiency - and are excited to share their stories with the CMU-Africa community.

These experiences are crucial stepping stones whether you aspire to join industry after graduation, pursue a research career, or apply to a PhD program. Over Summer 2026, CMU-Africa students proudly represented the university across Africa, Europe, and North America - presenting at Deep Learning Indaba in Lagos and PowerAfrica in Nairobi, publishing at CLEF in Jena, and studying at the Cornell-Maryland-Max Planck Pre-doctoral Research School in Saarbrücken and the ETH Robotics Summer School in Zurich. Others took their research further still, interning at the UNFCCC in Bonn, the IMF in Washington, D.C., and Aalto University in Espoo - together spanning seven countries and demonstrating the global reach and impact of our community.

-Happy reading!



CMU-Africa Students Around the World - Summer 2026

LEADERSHIP SUMMER RESEARCH SPOTLIGHT



Zainab Akintayo

MSEAI'2027

Supervisor

Prof. Ismaila Dabo

CMU-Africa

PUBLISHED PAPER SPOTLIGHT

Paper Title: Predicting Coagulant Efficacy for Water Pollutant Removal Using Machine Learning and Molecular Binding Energies

Water treatment plants decide which coagulant to use largely through empirical testing and institutional experience - not through any deep understanding of why one coagulant binds to one pollutant better than another. Zainab's project asks whether that gap can be closed at the molecular level: can computational descriptors of how a coagulant and a pollutant physically interact actually predict how well coagulation will work in practice?

Working with natural coagulants - chitosan, tannic acid, moringa - against a representative set of pollutants including dyes, PFAS ("forever chemicals"), and natural organic matter, she built a computational pipeline starting with molecular docking and binding-energy calculations using molecular mechanics. As the project progressed, the limits of relying on docking scores alone became apparent, pushing the work toward more rigorous energy calculations that account for molecular charge, solvent effects, protonation state, and electronic structure - the kind of detail that separates a rough correlation from a real mechanistic explanation.

How do you feel about your summer experience

"Working on a project on molecular docking chemistry - a term I hadn't heard until my supervisor mentioned it - was eye-opening, and a series of learning and relearning the basic concepts of chemistry," Zainab says. The project reshaped how she thinks about coagulation and pushed her to go deeper into water chemistry and water treatment more broadly. Presenting to her supervisor and other researchers, and fielding their questions, proved just as valuable as the computation itself - pointing the work in a better direction and surfacing angles that might otherwise have been missed.

Lessons Learnt?

Access to clean water remains one of the most persistent infrastructure gaps across the continent, and the coagulants used to treat it are too often chosen by trial and error rather than by design.

INTERNATIONAL INTERNSHIP EXPERIENCE



Grace Kaimburi

MSEAI'2027

**United Nations Climate
Change Secretariat**

Intern, Mitigation Division

Focus Area: Climate Policy Tools & Capacity-Building Knowledge Products

Article 6.4 of the Paris Agreement establishes the international mechanism for greenhouse gas mitigation and sustainable development - but the guidance governing it is scattered across CMA decisions, Supervisory Body rulings, and technical annexes, written in dense legal language, updated frequently, and hard to search. For governments, project developers, and civil society groups engaging with Article 6.4 for the first time - particularly from developing countries and under-resourced institutions - that fragmentation itself becomes a barrier to participation.

Grace's work during this internship was building the answer to that problem: the Article 6.4 Navigator, a retrieval-augmented generation (RAG) system that lets any stakeholder ask a plain-language questions - and receive an answer grounded entirely in official UNFCCC text, with citations back to the exact source document. Under the hood, the system retrieves relevant passages from the official Article 6.4 corpus, uses a language model to draft a plain-language answer from that retrieved context, and returns the answer alongside direct references - so the tool never speculates or substitutes for the official guidance, it simply makes that guidance reachable. Multilingual support aligned with the UN's official languages was built into the design from the outset, since much of Article 6.4's intended audience works in French, Spanish, and Arabic as often as English. Alongside the Navigator, Grace also co-developed the PACM podcast through to its launch and helped design the Technical Expert Review Course from the ground up.

How do you feel about your summer experience

"Capacity building is not about holding conferences and workshops," Grace reflects. "It is about what people can use without your presence - the tools, guidance, and resources you leave with them, that they can pick up easily in their day-to-day work long after any event is over." Policies are only as strong as the practitioners who can actually implement them - and most of the world's climate guidance is dense, technical, and scattered across formal decision documents. Work that turns that guidance into something a person can actually use is what makes international climate policy real on the ground rather than theoretical on paper.

Learn More about UNFCCC Internships: <https://unfccc.int/secretariat/employment/recruitment>

INTERNATIONAL INTERNSHIP EXPERIENCE



Ukachi Agnes Eze-Mbey

MSIT'2027

**Aalto University
Espoo, Finland**

Research Assistant

Focus Area: Network Support Across Life Stages for STEM Academics

Studying How Career Breaks Shape STEM Careers

Career breaks for parenthood and caregiving are common - but their long-term effect on a STEM academic's career trajectory is rarely studied with any rigor. At Aalto University, Ukachi worked as a research assistant on a project examining exactly that: how career breaks due to parenthood and caregiving shape the careers of STEM academics, and what kind of network support helps people navigate those breaks without losing momentum in their field.

It's a notably different kind of research from the technical, systems-building work featured elsewhere in this issue - qualitative, human-centered, and concerned with the structural realities that shape who stays in STEM and who doesn't. That range is itself worth noting: research skill isn't confined to one methodology, and understanding people's career trajectories takes the same rigor as fine-tuning a model or optimizing a microgrid.

How do you feel about your summer experience

Ukachi's biggest takeaways were methodological and personal in equal measure: learning how to carry out qualitative research from the ground up, how to work independently on a research question without constant oversight, and how to operate effectively in a diverse, multinational academic environment far from home.

Learn More about Aalto University's Summer Research Programme: <https://www.aalto.fi/en/aalto-science-institute-asci/aalto-science-institute-international-summer-research-programme>



INTERNATIONAL INTERNSHIP EXPERIENCE



Glorry Sibomana

MSEAI'2027

**International Monetary
Fund**

USA, WASHINGTON D.C

AI Engineer

Some of the most important documents in the world can't leave the building they live in. At the IMF, Glorry spent his summer working on exactly that constraint: adapting a small open-weight vision-language model - around 3B parameters - to extract structured information from multilingual administrative documents, in a setting where the real corpus was confidential and could never be used for training.

His workaround was to build a synthetic document generator calibrated on aggregate statistics from the real corpus - reproducing realistic layouts, scan and photo artifacts, stamps, and multi-page structures across nine languages. He then fine-tuned the model using parameter-efficient methods (QLoRA) on on-premise GPU hardware, and designed the evaluation around leakage-safe held-out splits, per-field accuracy, and significance testing against a zero-shot baseline. The result: the fine-tuned model reached strong extraction accuracy on document categories where the base model had scored zero. Agentic AI tooling ran throughout his daily engineering workflow, giving his practical grounding in the second half of his research area.

How do you feel about your summer experience

"The main lesson was that evaluation drives everything," Glorry says. An early training run looked healthy from its loss curve, but stratified evaluation showed entire document categories failing - and the causes turned out to be engineering bugs, not model limits, including a silent library default that had been truncating the training context. He learned to distrust aggregate metrics, to break results down by language and document type, and to report small sample sizes honestly with confidence intervals.

He also got hands-on with the full low-resource fine-tuning stack: quantized training, token budgets, multi-image inputs, and the unglamorous work that takes most of the time - data provenance, reproducible seeds, and keeping multi-day jobs alive on remote machines. "Above all, I learned that working with confidential data is mostly about designing pipelines where the data never needs to move."

Learn More about IMF Internships: <https://www.imf.org/en/about/recruitment/working-at-the-imf/fund-internship-program>

SUMMER SCHOOL EXPERIENCE

Odunayo Akinlade MSEAI'2027

**Cornell, Maryland & Max
Planck Pre-doctoral
Research School
(CMMRS 2026 ·
Saarbrücken, Germany)**

August 3-7, 2026



CMMRS brings together undergraduate and Master's students from around the world for an intensive week of lectures, panels, mentorship, and poster sessions designed to demystify what a research career in computer science actually looks like. This year Odunayo spent that week at the Max Planck Institute for Software Systems in Saarbrücken, sitting with leading researchers across areas well outside her usual focus on Human-AI Interaction, trustworthy AI, privacy, and AI evaluation - a deliberate stretch that shaped how she now thinks about her own next steps.

How do you feel about your summer experience

"The most valuable part," she says, "was being able to engage directly with researchers - asking them about their work, their careers, and their advice on the PhD path." She left Saarbrücken with new perspectives, meaningful connections, and a firmer conviction that the researchers she most admires are the ones who find problems that genuinely interest them and pursue them deeply.



Learn More about CMMRS: <https://cmmrs.mpi-sws.org/>

SUMMER SCHOOL EXPERIENCE

Rhoda Ojetola MSEAI'2027

**ETH Robotics Summer School
ETH Zurich, Center for
Robotics (RobotX)
Geneva, Switzerland**

June 20-26, 2026



Search-and-rescue robotics doesn't leave much room for theory alone - the environments are rough, unpredictable, and often hazardous by design. Rhoda spent a week at ETH Zurich's RobotX summer school getting exactly that kind of hands-on exposure: lectures and tutorials on core robotics concepts, paired with programming autonomous ground robots built for rough terrain and testing them across varied environments.

The week ran alongside ARCHE (Advanced Robotic Capabilities for Hazardous Environments), which brought legged robots, teleoperated excavators, amphibious vehicles, and UAVs into simulated disaster scenarios - giving participants a front-row view of how different robotic platforms are designed to complement each other when a single robot type isn't enough for the job.

How do you feel about your summer experience

"A highlight was meeting professors and hearing the guest lectures, along with getting to see many different kinds of robots in action," Rhoda says. "It was also very hands on."

Programs like RobotX exist to put students in front of that complexity early, with real hardware instead of only simulations, so that when disaster-response robotics needs a new generation of researchers, some of them will already know what the field actually looks like up close.

Learn More about RobotX:

<https://robotx.ethz.ch/education/summer-school.html>



SUMMER RESEARCH SPOTLIGHT



**Victor Tolulope Olufemi,
MSIT'2027**

Supervisor

**Prof. Prasenjit Mitra
CMU-Africa**

PUBLISHED PAPER SPOTLIGHT

Paper Title: WAXAL-NET: Fine-Tuned Edge ASR Across 19 African Languages

Most African languages are underserved by modern speech recognition. The multilingual “foundation” models good enough to help are too heavy to run on the low-cost devices where African speech is actually recorded, and the smaller models that do run there fail on spontaneous, conversational speech. WAXAL-NET asks whether a compact, specialized model can close that gap.

Using the WAXAL corpus of image-prompted speech across 19 African languages, Victor's team fine-tuned three edge models (39M–300M parameters) and benchmarked them against three zero-shot foundation models 3–40× their size. To evaluate honestly, they cleaned the test set, tested cross-domain generalization on FLEURS, and ran a distributed native-speaker audit across all 19 languages to characterize how the models actually fail.

The fine-tuned edge models cut average word error rate from 64.9% to 38.0% - showing that domain specialization can outweigh raw scale for real-world African speech. The team also found that model architecture tracks language family, and that standard WER understates performance for syllabary scripts like Ge'ez. All 57 fine-tuned models, the cleaned data, and the code are released openly, giving practitioners usable ASR for languages that previously had none.

How do you feel about your summer experience

“The most rewarding part was the scale of collaboration,” Victor says - over thirty researchers and thirty-two native-speaker contributors across nineteen language communities, coordinated in-house at CMU-Africa. Defending the methodology through peer review pushed him as both a researcher and a communicator; Prof. Prasenjit Mitra's guidance, and access to the GPU resources the work demanded, made its depth possible. “Seeing our models released openly, and already useful to people working in these languages, made every late night worth it.”

Lessons Learnt?

Speech technology has to be built where the languages are spoken, or the languages don't get built for. WAXAL-NET is a proof of concept that they can be - and a template for how it should be done.

SUMMER RESEARCH PUBLICATIONS



John Dalton Gibson MS ECE 2027

Supervisor

**Prof. Eric Nyberg of CMU's
Language Technologies
Institute (CMU LTI)**

**Friedrich-Schiller University in
Jena, Germany.**

Dates: September 21-24, 2026

PUBLISHED PAPER SPOTLIGHT

Paper Title: SynapFlow at BioASQ@CLEF 2026 (Biomedical Retrieval-Augmented Generation)

When a clinician queries a biomedical database, the top-ranked results often say the same thing in slightly different ways - a familiar failure mode that starves a downstream language model of the varied evidence it needs to reason well. John's paper, presented at the BioASQ track of CLEF 2026, an international evaluation forum for information access systems, tackles that redundancy head-on.

Working with Prof. Eric Nyberg of CMU's Language Technologies Institute, John built a weighted hybrid retrieval pipeline that introduces Maximal Marginal Relevance as a post-reranking filter - sitting on the output of a neural re-ranker to prune redundant passages before generation. Prior biomedical QA work had used MMR only as a first-pass retrieval strategy; applying it after a neural re-ranker to explicitly enforce diversity in a RAG pipeline is, to their knowledge, a first for the domain.

How do you feel about your summer experience

The result is a system that gives the generator a broader, less repetitive evidence base - exactly what a clinician needs when the question at hand doesn't have a single, textbook answer. It's a small architectural change with an outsized effect, and the kind of contribution that quietly moves the field: sharpen a real bottleneck, benchmark it honestly, share the pipeline.

Learn More about the CLEF Conference: <https://www.imageclef.org/2026>

SUMMER RESEARCH PUBLICATIONS

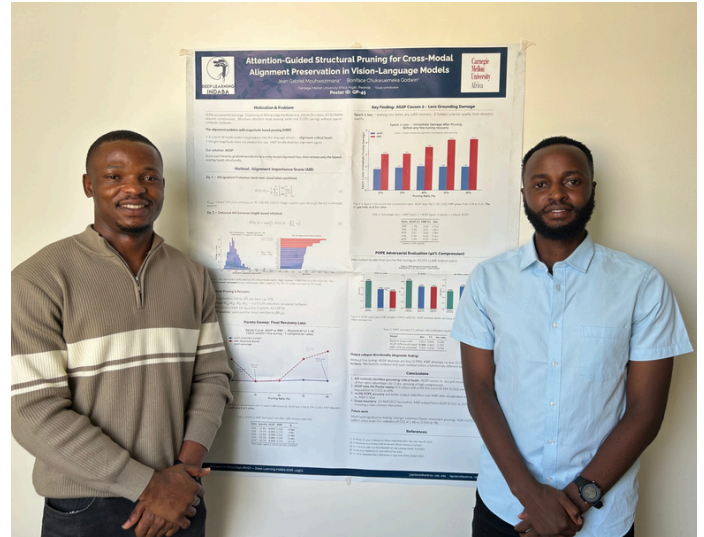
Boniface Chukwuemeka Godwin

Supervisor

Professor Ozan Tonguz

**Deep Learning Indaba
Pan-Atlantic University, Lagos,
Nigeria.**

Dates: 2-7 August 2026



AWARDED PAPER SPOTLIGHT ★ BEST PAPER

Paper Title: Attention-Guided Structural Pruning for Cross-Modal Alignment Preservation in Vision-Language Models

Vision-language models learn a delicate alignment between what they see and what they read - the very thing that lets them describe an image or answer a question about it. Making these models smaller is essential for deployment on real hardware, but standard pruning often severs precisely that alignment, quietly degrading the model's cross-modal reasoning even as the accuracy numbers on unimodal benchmarks look fine.

In their Best-Paper-Award-winning work, Boniface and co-author Jean Gabriel Mpuhwezimana propose using the model's own attention patterns to guide the pruning decision - identifying and preserving the structural components that carry cross-modal information, so what remains after compression is a leaner model whose picture-word alignment is intact. The award recognizes both the clarity of the idea and the care of its execution.

Co-Author(s)

Jean Gabriel Mpuhwezimana

Why is this important?

Making frontier models runnable in the places that most need them - hospitals, classrooms, and phones without a datacenter behind them - is one of the field's quietest but most consequential problems. Compression that respects what a model actually learned is how deployment becomes possible, and how the benefits of these systems reach beyond the labs that trained them.

Learn More about the Deep Learning Indaba Conference: <https://deeplearningindaba.com/>

SUMMER RESEARCH PUBLICATIONS



Kayesu Ritah MSEAI'2026

Supervisor

**Prof Sarath B. Tennakoon and
Prof Barry G. Rawn.**

**Power Africa Conference in Nairobi
(21-25 September 2026).**

PUBLISHED PAPER SPOTLIGHT

Paper Title: Safety Protocols for Repurposing High-Voltage Lithium-ion Batteries from Electric Vehicles for Microgrid Applications

Africa's second-life battery economy - reusing spent electric-vehicle battery packs to power microgrids - is one of the more promising paths toward affordable off-grid electricity. But the international standards governing this space overwhelmingly regulate end-product performance, not the technicians who dismantle the packs to begin with. Kayesu's paper closes that gap.

Through a task-based hazard analysis, the study identifies battery pack extraction and disassembly as the highest-risk operational phases, and introduces a field-ready Pre-Task Risk Assessment Form alongside OSHA-aligned safety procedures. Together, these are the practical apparatus a workshop actually needs to keep personnel safe while scaling second-life battery circularity for microgrids. The work is co-authored with Sarath B. Tennakoon and Barry G. Rawn, and will be presented at the Power Africa Conference in Nairobi (21-25 September 2026).

Co-Author(s)

Kayesu Ritah · Sarath B. Tennakoon · Barry G. Rawn

Why is this important?

Energy-access research is often about the technology; this paper is about the people who touch the technology. Both have to work - and the human side is the one more often overlooked. That Kayesu chose to build the safety infrastructure alongside the engineering one is exactly the kind of decision that turns a promising sector into a responsible one.

Learn More about the 2026 IEEE PES/IAS PowerAfrica Conference: <https://ieeepowerafrica.org/>

SUMMER RESEARCH PUBLICATIONS

Kevin Jonathan IRADUKUNDA MSECE 2026

Supervisor

**Prof. Jesse Thornburg
CMU-Africa**

**18th Asia-Pacific Power and
Energy Engineering Conference
(APPEEC 2026)
Singapore**

Dates: 24-27 August 2026



PUBLISHED PAPER SPOTLIGHT

Paper Title: Optimizing Microgrid Generation & Storage (Combinations for Low-Resource Contexts)

Designing a microgrid for a rural clinic or an off-grid community is a hard sizing problem: how much solar, how much wind, how much battery storage, at what cost, meeting what demand curve - and where every wrong answer is either wasted capital or lights that go out. Kevin's paper, as main author with Prof. Jesse Thornburg, takes on that combinatorial question directly, framing it as an optimization over generation and storage combinations tuned to the constraints of low-resource contexts.

Why is this important?

Every one of the hundreds of millions of people still without reliable electricity in Sub-Saharan Africa lives downstream of decisions like the ones this paper is trying to make well. Sound optimization is not a footnote here; it is the difference between a system that lasts and a system that becomes an expensive lesson. Work that treats the constraints of low-resource contexts as first-class design inputs - rather than afterthoughts on a template imported from somewhere else - is exactly the kind of research the region needs more of.

Learn More about the IEEE PES Asia-Pacific Power and Energy Engineering Conference:
<https://attend.ieee.org/appeec-2026/>

RESEARCH OPPORTUNITIES AT CMU-AFRICA

At CMU-Africa, every student engages in research through assignments, course projects, reports, and more. In essence, we are all researchers. Here are some resources and opportunities to help you get started and excel in research:

1. Research Methods in Engineering Course: Your journey begins with this foundational course, offered in both Fall and Spring semesters.
2. Join Research Groups: Explore opportunities to volunteer or intern with various research groups during the summer. These experiences provide hands-on exposure to cutting-edge projects.
3. Research Track for MSIT Students: IT students can opt for a dedicated research track designed for students interested in pursuing a research career or a Ph.D. after their program.
4. Independent Study or Engineering Research Project: Students can also undertake independent study or research project which offers a way to engage in research while earning course units. Reach out to the academic advisor for guidance on this option.
5. The Department of Electrical and Computer Engineering CMU-Pittsburgh also has open research opportunities for students. More information [here](#).
6. CMU Africa, Libraries Research Guide [here](#).
7. Learn more about CMU Africa research [here](#).

For more opportunities, reach out to the Research Club officials.

Visit our [website for a full list of conferences](#).



Available

Digital Foundations for Sustainable Transportation

WE WILL GAUGE THE APPLICABILITY OF VARIOUS INTELLIGENT TRANSPORT / E-MOBILITY SYSTEMS IN DIFFERENT SOCIO-ECONOMIC CONTEXTS.

PROJECT DETAILS →

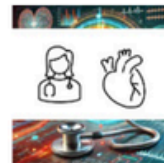


Available

Digital Malaria Control for the Developing World

THE PROJECT EMPLOYS MACHINE-LEARNING CLASSIFICATION METHODS ON MICROSCOPIC IMAGES OF BLOOD SMEARS TO DETECT MALARIA PARASITES AND MIXED INFECTIONS.

PROJECT DETAILS →



Available

Enhanced CVD Discovery in Medically Underserved Communities via AI-assisted Stethoscopy

THIS RESEARCH AIMS TO ENHANCE THE DIAGNOSTIC CAPABILITIES OF ELECTRONIC STETHOSCOPES.

PROJECT DETAILS →



Available

Enhancing Parents' Reporting and Prediction of Adverse Effects following Maternal and Child Immunization in Rwanda through Mobile Application

THIS PROJECT WILL STRENGTHEN VACCINE SAFETY MONITORING AND IMPROVE PUBLIC HEALTH OUTCOMES IN RWANDA.

PROJECT DETAILS →



Available

Evading AI-based Radar Detection

MACHINE LEARNING METHODS HAVE BEEN USED TO DETECT OBJECTS BEHIND WALLS. CAN WE DEVELOP A METHOD THAT WOULD EVADE AI DETECTION?

PROJECT DETAILS →



Available

Leveraging Large Language Models for Enhancing Public Healthcare

WHEN IS IT USEFUL TO USE LLMs TO ADDRESS CRITICAL HEALTHCARE CHALLENGES IN UNDERSERVED COMMUNITIES?

PROJECT DETAILS →

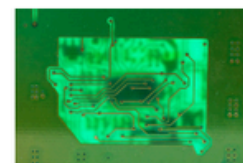


Available

LLMs for Maternal Health Question-Answering and Complications Detection

THE HIGH RATES OF MATERNAL MORTALITY IN AFRICA CAN BE ADDRESSED BY IMPROVING MATERNAL KNOWLEDGE ON OBSTETRIC DANGER SIGNS.

PROJECT DETAILS →



Available

ML-accelerated Prediction of Thermoelectric Semiconductors from Locally Sourced Wolframite

THIS PROJECT WILL MAXIMIZE THE THERMOELECTRIC EFFICIENCY OF WOLFRAMITE MATERIALS AWO(4) USING ML-ACCELERATED ATOMISTIC SIMULATIONS

Have you followed us on our social Media?

The research club has opened our official pages where you will get information about research, opportunities and very insightful contents. Kindly follow us on our LinkedIn [page](#) by clicking on the icon below and engage our posts.



Feedback for Research Club

Do you have feedback for us?

- As a student researcher, do you want to share your research?
- Do you have any opportunities you want to showcase on this newsletter?
- Ask a Professor - Do you have a question for faculty you want us to feature on the next newsletter?
- Do you have an Alumni, doing amazing works, you want us to feature?
- Any other suggestions

[Scan this QR code or fill the form here](#)



Your feedback is highly appreciated

Enjoy the Semester!

Thank you for reading

Editors:

Matewos Endaylalu

Zainab Akintayo

Grace Kaimburi

Paul Mugume

Jean Gabriel Mpuhwezimana

Carnegie
Mellon
University
Africa