

# JEAN BAPTISTE MBANZABUGABO

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## ACADEMIC PREPARATIONS

### Education

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2023 – 2026/7	Ph.D.- (Ongoing), Instructional Systems and Learning Technologies, Department of Educational Psychology & Learning Systems; College of Education, Health, and Human Sciences Florida State University, Tallahassee -United States of America.
2013- 2016	D.Sc., Computer Science, Atlantic International University, Hawaii- United States of America.
2010- 2013	MSc., Software Engineering, Annamalai University, Bangalore-India. MCA., Computer Application, Bangalore University, Bangalore-India.
2006-2010	B.Sc. in Engineering, Computer Science, University of Rwanda/Kigali Institute of Science and Technology, Kigali-Rwanda

### Nondegree major Training certificates

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2025	Perspectives Program, Certificate of Completion, Constructive Dialogue Institute in partnership with FSU
2019-2020	Supervisors of Doctoral Candidates at African Universities, Stellenbosch University – South Africa
2019	Pedagogical and Research Skills in Postgraduate Training Certificate, Higher Education Council, Rwanda. ICDL Trainer Certification, Core Digital Skills, Professional, Digital Citizen, ICDL Africa Ltd, Rwanda
2014	PHP and DOT NET Course completion Certificate, Cegonsoft Pvt. Ltd, Bangalore, Karnataka
2013	Cisco Certified Academy Instructor (CCAI), Cisco Networking Academy

## Core Competencies

- Policy and Strategy development
- HL Institutional Audit and subject review,
- Instructional design & ADDIE
- Research and inquiry
- Curriculum development and evaluation of program and Instruction
- Leadership and management skills
- Digital Transformation & eLearning Systems
- Lifelong learning
- Computer proficiency
- Software Development (Full Stack)
- Data Architecture & Database Administration (MySQL, SQLite, PostgreSQL, MS SQL Server and NoSQL databases- Mongodb )
- Data Analytics & Visualization (Python, R, SPSS, Tableau, Power BI)
- Programming Languages: Python, Java, C/C#, PHP, HTML, JavaScript, Dart
- Big Data Tools (Hadoop, Spark) & Data Warehousing
- AI, Machine Learning and LLMs
- Data Integration, Cleaning & Modeling
- ETL Pipelines & API Development
- ERP/MIS/LMS Development (Moodle, Canvas, Custom Solutions)
- Cloud Platforms (AWS, Azure, Google Cloud)
- Project Management (Agile, Waterfall, SDLC)
- Computer and Network Troubleshooting & Maintenance
- Adobe Collection Suite, Articulate 360 and iSpring Suite

## PROFESSIONAL POSITIONS

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09/2025 - present ***Institutional Assessment Graduate Assistant,***

Office of Institutional Performance and Assessment, Florida State University, Tallahassee, FL

### **Responsibilities:**

- Support university-wide assessment of student learning and program effectiveness across academic units.
- Assist with the development and review of learning outcomes and assessments ensuring consistency with institutional goals and accreditation expectations.
- Contribute to other projects and initiatives including Updating data in IE Portal and AI integration project.

09/2023- present ***Graduate Teaching & Research Associate***

Department of Educational Psychology & Learning Systems; College of Education, Health, and Human Sciences

Florida State University, Tallahassee -United States of America.

**Responsibilities:**

- Assist in teaching graduate courses related to instructional design and learning technologies.
- Collaborate with faculty to design and update course materials, ensuring they reflect current research and best practices in the field.
- Review and grade assessments, provide constructive feedback to students, and handle their inquiries.
- Engage in research activities under the guidance of faculty member.

10/2020- 07/2023 ***Senior Lecturer of Computer Science and Information Technology***  
University of Kigali, Rwanda

**Responsibilities:**

- Teach undergraduate and graduate courses in computer science, information technology, and Business Information Technology department.
- Supervise and mentor students in research projects and dissertations.
- Participate in outreach related to development and review of curricula aligned with industry trends and accreditation standards of Rwanda Higher Education Council (HEC).
- Lead faculty training and capacity-building initiatives related to technology integration in teaching and learning.

***eLearning Management Systems (LMS) Development & Implementation Specialist***

University of Kigali, Rwanda

**Responsibilities:**

- Developed and implemented the university's Learning Management System (LMS) to support online, and blended learning across schools
- Designed instructional technology strategies, integrating Moodle LMS platform to enhance digital learning.
- Lead faculty PD/training & workshops on e-learning pedagogy, course design, and digital assessment methods.
- Collaborated with IT and academic departments to ensure a seamless adoption of LMS technologies across faculties.
- Monitor LMS performance and optimization of system functionality.

03/2020-09/2020 ***Online Teaching Coordinator during Lockdown Covid-19 Pandemic,***  
University of Tourism Technology and Business Studies, Kigali, Rwanda

**Responsibilities:**

- Lead the transition to online learning during the COVID-19 lockdown, ensuring uninterrupted instruction for students and faculty.
- Develop and facilitate the implementation of an emergency e-learning strategy, integrating Moodle LMS platforms , and virtual learning tools.
- Train and support faculty members in online course design, and remote assessment strategies to enhance virtual teaching effectiveness.
- Coordinate online examinations and assessments during the lockdown.
- Manage technical and administrative aspects of the university's e-learning platforms, troubleshooting issues and optimizing system performance.
- Monitor student engagement and performance, implementing support mechanisms to address learning challenges in the online environment.
- Collaborate with university leadership to develop policies and guidelines for online learning sustainability beyond the pandemic

09/2018-10/2020 ***Part Time Senior Lecturer***

Graduate School, University of Kigali

**Responsibilities:**

- Teach in Msc.in Information Technology (IT) program
- Provide mentorship and research guidance to master's students

05/2016-09/2020 ***Lecturer,***

University of Tourism Technology and Business Studies, Kigali- Rwanda.

**Responsibilities:**

- Teach undergraduate courses under computer science and Business Information Technology department.
- Supervise and mentor students in final research projects.
- Participate in outreach related to development and review of curricula aligned with industry trends and accreditation standards of Rwanda Higher Education Council (HEC).

***Moodle LMS Internal Consultant and Trainer***

University of Tourism,Technology and Business Studies, Kigali- Rwanda.

**Responsibilities:**

- Collaborate with academic leadership department to develop policies and best practices for sustainable and scalable Moodle-based learning environments.
- Provide expert consultation/Need assessment and technical support for the implementation, customization, and administration of the Moodle Learning Management System (LMS).
- Trained faculty and administrative staff on Moodle functionalities, including course creation, content management, online assessments, and learner tracking.
- Develop instructional guides and training materials, ensuring faculty could effectively integrate Moodle into their teaching practices.
- Evaluation of LMS project- phases

07/2015-12/2015 ***Assistant Lecturer,***

University of Rwanda, College of Business and Economics, the former School of Business and Finance, Kigali- Rwanda.

***Responsibilities:***

- Instructor in Business Information Technology department.
- Develop course materials and practical exercises, integrating hands-on learning experiences in Document production, Introduction to Information Technology, and Data Structures and algorithms courses

09/2013–05/2016 ***Assistant Lecturer,***

University of Tourism Technology and Business Studies, Kigali- Rwanda.

***Responsibilities:***

- Teach undergraduate courses in Business Information Technology department
- Develop course materials and practical exercises, integrating hands-on learning experiences in programming, database management, networking, and cybersecurity.
- Supervise student research projects, guiding them in applied research and Practicum in industry.

05/2006-07/2008 ***IT Assistant in Charge of IT Equipment and Computer Labs,***

School Finance and Banking, University of Rwanda

***Responsibilities:***

- Manage and maintain IT equipment and computer labs, ensuring all systems were functional, secure, and up to date for student and faculty use.
- Provide technical support and troubleshooting assistance for hardware, software, and network issues within the university's computer labs.
- Oversee the installation, configuration, and maintenance of operating systems, productivity software, and specialized financial and business applications.
- Ensure lab equipment and IT infrastructure met academic and research needs, supporting faculty and students in accessing digital resources.
- Manage lab scheduling and access control, optimizing availability for academic activities, practical sessions, and research work.
- Provide user support, guiding students and faculty on the effective use of digital tools, equipment and software applications.

05/2008-06/2013 ***IT Assistant Engineer,***

University of Tourism Technology and Business Studies, Kigali- Rwanda.

***Responsibilities:***

- Manage IT support services, ensuring timely resolution of technical issues for students, faculty, and administrative staff.
- Develop and enforce IT policies related to cybersecurity, data privacy, and digital resource management to safeguard institutional information systems.
- Provide technical support and troubleshooting assistance for hardware, software, and network issues within the university's computer labs.
- Oversee the installation, configuration, and maintenance of operating systems, productivity software, and specialized financial and business applications.
- Ensure lab equipment and IT infrastructure met academic and research needs, supporting faculty and students in accessing digital resources.

## APPOINTMENT POSITIONS

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### ***MIS Project Manager,***

University of Kigali, Rwanda

#### **Responsibilities:**

11/2020-07/2023

- Lead end-to end in-house development of university-wide MIS to streamline both Academic and none-academic departments
- Manage a cross-functional development team, overseeing system architecture, coding, testing, and phased deployment across university departments.
- Coordinate with university leadership and departmental heads to align system functionalities with operational workflows and compliance requirements.
- Design and facilitate the implementation and training programs for faculty and administrative staff, ensuring effective system adoption and digital capacity building.
- Develop data governance policies and security protocols, including backup and disaster recovery systems.
- Maintain system performance through iterative improvements based on user feedback, achieving high system uptime and user satisfaction.

### ***Dean of the School of Computing and Information Technology***

University of Kigali, Rwanda

#### **Responsibilities:**

- Planning and reporting on the school in university executive meeting
- Developed and implemented a strategic vision for the school's academic programs, ensuring alignment with its mission and goals.
- Oversee the development, review and implementation of a comprehensive curriculum.
- Promoted high standards of teaching and learning, monitor student progress, and support professional development for teaching staff.
- Ensure curriculum is relevant, engaging, and aligned with assessment standards.
- Developed and managed the school's budget, ensuring responsible allocation of resources.
- Recruited, hire, supervise, evaluate, and provide professional development opportunities for all staff members.
- Managed research projects and collaborations, fostering partnerships with industry, government, and international institutions.
- Oversaw accreditation and quality assurance processes, ensuring programs met national and international educational standards.
- Developed partnerships with tech companies, facilitating student internships and industry exposure.

09/2020- 10/2020 ***Acting Deputy Vice Chancellor Academics Affairs***  
University of Tourism Technology and Business Studies, Kigali- Rwanda.

**Responsibilities:**

- Oversee core academic functions, including curriculum development, teaching, learning quality, research oversight, staff development, and student support,
- Acting as a key strategic leader for academic vision and implementation ensuring University recover from Covid-19 pandemic

07/2015–09/2020 ***Dean of the Faculty of Business and Information Technology,***  
University of Tourism Technology and Business Studies, Kigali- Rwanda.

**Responsibilities:**

- Planning and reporting on the school in University executive meeting
- Provide academic leadership in curriculum development and review, faculty recruitment, evaluation, teaching, learning and assessment, Graduation and strategic planning for the Faculty of Business and Information Technology across the two campuses (Kigali campus and Rubavu).
- Lead faculty development initiatives, ensuring staff are equipped for new trends and required competencies.
- Manage research projects and collaborations, fostering partnerships with industry, government, and international institutions.
- Oversee accreditation and quality assurance processes, ensuring programs met national and international educational standards.
- Develop partnerships with tech companies, facilitating student internships and industry exposure.

07/2013- 05/2015 ***Director of ICT***  
University of Tourism Technology and Business Studies, Kigali- Rwanda.

**Responsibilities:**

- Lead the strategic planning and management of the university's ICT infrastructure, ensuring reliable and secure IT services.
- Managed IT support services, ensuring timely resolution of technical issues for students, faculty, and administrative staff.
- Developed and enforced IT policies related to cybersecurity, data privacy, and digital resource management to safeguard institutional information systems.
- Spearhead digital transformation initiatives, including network upgrades, University Website and email server, cloud computing adoption, and IT system enhancements.

## HONORS, AWARDS, AND PRIZES

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2020	<i>Outstanding University Digitalization Initiative and Performance,</i> University of Kigali, Rwanda
2025	Outstanding Research Paper Award, TCC 2025, University of Hawaii, United States of America.

## MEMBERSHIP IN PROFESSIONAL AFFILIATIONS

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2025-Current	E-Learning and Technology Integration Advisory Forum Group, GHU, Miami, U. S
2023 -current	Membership & Reviewer, AECT- Association for Educational Communications and Technology, U. S
2023- current	ISSA - ISLT, Member, Florida State University, U. S
2023 -current	Membership & Reviewer, Journal of Technology and Investment Scientific Research Publishing, United States of America
2021- Current	Member of the scientific committee of Ph.D. thesis defense and as a external reviewer (opponent) at the Institute of Applied Mathematics and Computer Science, Tomsk State University, Tomsk, Russia
2021-2022	Group Member for Institutional Audit & Subject Review, Higher Education, Rwanda
2020- Current	Supervisory and research capacity, Stellenbosch University, SA
2020 – 2023	Member as Dean, Executive Committee Membership -Academic Senate, University of Kigali, Rwanda
2019- Current	National electrotechnical Committee (NEC) Member, Rwanda Standard Board(RSB), Kigali, Rwanda
2018-2022	Doctoral Committee member as an External University and Industry expert, African Center of Excellence in Internet of Things (ACEIoT), University of Rwanda, Kigali, Rwanda

## TEACHING AND EXTRACURRICULAR ACTIVITIES

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Spring 2026-	<b>Teaching Assistant</b>
Current	Department of Educational Psychology & Learning Systems Florida State University
	<ul style="list-style-type: none"><li>• XXXXX</li></ul>
Fall 2025	Teaching Assistant Department of Educational Psychology & Learning Systems Florida State University
	<ul style="list-style-type: none"><li>• EME5603 Introduction to the Systematic Design of Instruction</li><li>• ADE5189 - Staff Training &amp; Development</li></ul>
Summer 2025	Research Assistant Practical Project: Integration of AI in jMAP tool and its extension from close-ended maps to open-ended maps.
Spring 2025	<b>Teaching Assistant</b> Department of Educational Psychology & Learning Systems Florida State University
	<ul style="list-style-type: none"><li>• EME5603 Introduction to the Systematic Design of Instruction</li><li>• EME5602 Technology &amp; Design</li><li>• EDF5442 Inquiry and Measurement for Practitioners (Design only)</li></ul>
Fall 2024	<b>Teaching Assistant</b> Department of Educational Psychology & Learning Systems Florida State University
	<ul style="list-style-type: none"><li>• EME 5457 Introduction to Distance Learning</li><li>• EDF5442 Inquiry and Measurement for Practitioners</li></ul>
Summer 2024	<b>Teaching Assistant</b> Department of Educational Psychology & Learning Systems Florida State University
	<ul style="list-style-type: none"><li>• EME5602 Technology &amp; Design</li><li>• EME 6415 Development of Computer Courseware</li></ul>
Spring 2024	<b>Graduate Assistantship in Professional</b> Department of Educational Psychology & Learning Systems Florida State University
	<ul style="list-style-type: none"><li>• Digitalization of ISLT Archives in Morgan Studio</li></ul>

- Instructional Design to use Screens in Morgan Studio
- Planning and organizer committee member for ISLT @50 ASKE Conference 2024
- Webliography of Doctoral Student Resources on canvas

Fall 2023

### **Graduate Assistantship in Professional**

Department of Educational Psychology & Learning Systems

Florida State University

- ISLT Courses Syllabus inventory on Canvas
- ISLT MS competency classes inventory
- ISLT Course inventory using IBSTIPI competencies
- ISLT MS Internship data tracking and recording
- Courses Planning annotation recording for Fall 2024-Summer 2026

2013 - 2023

### **TEACHING EXPERIENCE OUTSIDE U. S**

#### **In undergraduate program – in Rwanda (2013-2023):**

- Introduction to ICT (University of Rwanda, University of Kigali)
- Data Structures and Algorithms (University of Kigali, UoG University, UTB University)
- Database Systems (University of Kigali, UTB University)
- System Analysis and Design (University of Kigali, UTB University)
- Theory of Computation and Assembly language (UoG University, UTB University)
- Software Engineering (UTB University)
- Simulation and Modeling (UTB University)
- Computer Architecture and Assembly (University of Kigali, UTB University)
- Event-driven programming (UTB University)
- Visual Programming (University of Kigali, UoG University)
- Artificial Intelligence (University of Kigali, UoG University, UTB University)
- Object Oriented Programming (C++ and Java) (University of Kigali, UTB University)

#### **In graduate program 2017-2023:**

- Research Methodology for IT (University of Kigali)
- System Analysis and Design (University of Kigali)
- Multimedia and Emerging Technology (University of Kigali)
- Information Technology and Society (University of Kigali)
- Database Design and Management (University of Kigali)
- Advance Computer Programming with Java (University of Kigali)
- ICT and Project Management (University of Kigali)

## **CURRICULUM DEVELOPMENT AND REVIEW**

- Member & Team Leader, Bachelor of Science in Computer Science; University of Kigali, Rwanda
- Member & Team Leader, Bachelor of Science in Information Technology; University of Kigali, Rwanda
- Member & Team Leader, Bachelor of Science in Smart computing; University of Tourism Technology and Business Studies, Rwanda
- Member & Team Leader, Bachelor of Science in Computer Application; University of Tourism Technology and Business Studies, Rwanda
- Member & Team Leader, MSc. in Data Science and Analytics; University of Kigali, Rwanda
- Member & Team Leader, Bachelor of science in computer Science engineering, University of Gitwe, Rwanda
- Member, Bachelor of science in computer Science (Software development Track, Cybersecurity engineering, University of Gitwe, Rwanda

## **DOCTORAL COMMITTEE MEMBER**

- Prudence M Mavhemwa (2019-2021). Improving usable security in the design and use of Internet-of-Medical Things; Ph.D. in Embedded Computing, University of Rwanda
- Kambombo Mtonga (2019-2021), Optimized Healthcare Delivery - A Modelling and Technology Integration Approach, Ph.D. in Embedded Computing., University of Rwanda
- Bamurigire Peace (2019-2021), Intelligent IoT Based Optimized Yield on Rice Crop Using Deep Learning Techniques., University of Rwanda

## **MASTER'S COMMITTEE MEMBER AS DISSERTATION SUPERVISOR/MAJOR ADVISOR**

- NTIRENGANYA Emmanuel (2021), University of Rwanda-ACEIOT
- UWINEZA Adeline (2021), University of Rwanda-ACEIOT
- YANKURIJE Madeleine (2020), University of Rwanda-ACEIOT
- UWUMUREMYI Gaspard (2020), University of Rwanda-ACEIOT
- Nelly Uwumuremyi (2020), University of Rwanda-ACEIOT
- Mathieu ITANGUKWISHATSE (2020), University of Rwanda-ACEI
- HABIMANA GANZA (2019), University of Kigali
- HABIMANA AIMABLE(2019), University of Kigali
- KANOBANA ABDOU(2019), University of Kigali

- MBONIGABA JEAN CLAUDE(2019), University of Kigali
- MUHINDANGIGA JEAN BOSCO(2019), University of Kigali
- MUSONI ALLIANCE(2019), University of Kigali
- MUTIJIMA ASHER EMMANUEL (2019), University of Kigali
- NSABIMANA EVARISTE(2019), University of Kigali
- NYIRINKINDI JEAN BOSCO(2019), University of Kigali
- NSABIMANA Evariste(2018), University of Kigali
- HABIMANA GANZA Olivier(2018), University of Kigali
- HITIYAREMYE Eric(2017-2018), University of Kigali
- MUKARUGIRA Chantal(2017-2018), University of Kigali
- TWAHIRWA Eric(2017-2018) , University of Kigali
- NAHAYO Dismas (2017-2018), University of Kigali
- HABUMUGISHA Olivier(2017-2018), University of Kigali
- MUSONI Alliance (2016-2018), University of Kigali
- NSENGIMANA Odon(2016-2018), University of Kigali
- MUPENZI Clement (2016-2018), University of Kigali
- TUYIZERE Vital (2016-2018) University of Kigali
- BIZIMANA Théoneste (2016), University of Kigali
- SUBIKA Peter (2016), University of Kigali
- MBONIGABA Jean Claude (2017-2018), University of Kigali
- KANOBANA Abdou (2017-2018) , University of Kigali

### **Undergraduate**

Mentored and Advised(Many students for final year research projects since 2015-July 2023), Industry partnerships acceleration program for Industrial Attachment

## **CONSULTANCIES AND OUTREACH**

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2023

Digital Literacy Trainer-Consultant (Ministry of Education & Information Network Security Administration (INSA) Staff Capacity Development Project with Neuronet Plc & ICDL Africa), Neuronet Plc, Addis Ababa-Ethiopia.

Assignment:

- Designed and delivered comprehensive training programs covering Core, Intermediate and advanced profiles in digital literacy competencies.
- Conducted Train-the-Trainer (TTT) programs, equipping future trainers with the knowledge and skills necessary to teach ICDL modules effectively.
- Facilitated Training of Trainers (ToT) sessions, providing in-depth training on instructional methodologies, learner engagement strategies, and assessment techniques to enhance trainer effectiveness.

2022	Member, Need assessment and development of curriculum of Bachelor degree of computer Science with Tracks: Data Science, Software Development, and Network Management for Kigali Independent University
2021	Trainer, Delivery of Module 2: AI - Sectoral Approaches, Peer Learning and Capacity Building Program for Policy Makers from Africa and Asia on Artificial Intelligence, Africa-Asia AI Policy Maker Network Project, Sponsored by GIZ, Kigali
2021	Digital Literacy Trainer-Consultant (National Bank of Rwanda- Staff Capacity Development & ICDL Africa ICDL ToT Project), ICDL Africa Ltd, Kigali-Rwanda. <b>Assignment:</b> <ul style="list-style-type: none"><li>• Train-the-Trainer (TTT) programs, for future trainers in 12 ICDL modules covering Core, Intermediate, advanced and professional profiles in digital literacy competencies.</li><li>• Facilitated Training of Trainers (ToT) sessions, providing in-depth training on instructional methodologies, learner engagement strategies, and assessment techniques to enhance trainer effectiveness.</li></ul>
2019	Training Coordinator WASAC Staff Capacity Development Program in partnership with the University of Tourism, Technology and Business Studies (UTB) and the University of Lay Adventists, I <b>Coordinated the implementation</b> of the Training, ensuring seamless programming and reporting
	IT Expert Team Member, Development of ICT4COM Strategy, Digital Solutions for Sustainable Development, Consultancy Services for the finalization of the ICT4COM Strategy of Minicom, Rwanda
2018	Digital Literacy Trainer-Consultant (Computer Aid & ICDL Africa, ICT in Education Project), Njala University staff, Sierra Leone, Njala. <b>Assignment:</b> <ul style="list-style-type: none"><li>• Train-the-Trainer (TTT) programs, for future trainers in 12 ICDL modules covering Core, Intermediate, advanced and professional profiles in digital literacy competencies.</li><li>• Facilitated Training of Trainers (ToT) sessions, providing in-depth training on instructional methodologies, learner engagement strategies, and assessment techniques to enhance trainer effectiveness.</li></ul>
2017	IT Expert and Examiner, Recruitment assignments and examination services, by the Rwanda Management Institute for Public Servants

	(BNR, RSSB, REB) for various positions related to IT domains, Rwanda
	Trainer and expert, Digitalization and Finance Literacy, Training and Computerization of Sage Accounting and Business Management Software for Finance Department service; Rwanda Union of Blind, Kigali
2016	Training Coordinator, Capacity Building program in Oracle IBS Components; Joint Venture Consultancy with M-Services Ltd and KOENIG, India to Train WASAC ICT Staff in R12.x Oracle Applications.

### **MAJOR CONFERENCES AND PRESENTATIONS**

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2025	Presenter, AECT International conference, Oct. 20 -24, 2025. at Planet Hollywood Resort & Casino in Las Vegas, Nevada.
	Presenter, 2025 IEEE Conference on Computational Imaging Using Synthetic Apertures (CISA), June 2-6, 2025, University of Maryland.
	Presenter, Facilitator, TCC Hawaii, Teaching, Colleges & Community Worldwide Online Conference (TCC). April 22–24, 2025. Online, Orlando, FL.
	Presenter, CEHHS Research Showcase FSU, March 28, 2025
2024	Presenter & Volunteer, AECT International conference, Oct. 16 -20, 2024. Downtown Kansas City, Kansas City.
	Planning Team Member, Presenter, IST 50 for 50 FSU, Tallahassee, April 4-5, 2024
2023	Attendee & Volunteer, AECT International conference, Oct. 16 -20, 2023. DoubleTree Hotel by Hilton, Orlando, FL.
2022	Presenter, 1st Science and Technology Conference, 26-27 January 2022. Kigali Convention Center, Rwanda
2019	Attendee, eLearning Africa 2019 , 14th International Conference & Exhibition on ICT for Education, Training and Skills Development, Oct 23- 25, 2019 Côte d'Ivoire

## GRANTS AND FUNDING

### Funded Project

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2020-2023	<b>Co-PI</b> , Special Collaborative Research Grants to Address COVID-19 Pandemic in Rwanda, National Council for Science and Technology, Forty-Three Million Two Hundred Thirty-Seven Thousand Five Hundred Rwandan Francs (43,237,500.00) University of Tourism Technology and Business Studies (UTB)
2021-2023	Co-PI, Research Information Management System (RIMS) Customization under CCRREEA project: \$47,000 University of Kigali (UoK)
2018-2019	<b>Co-PI</b> , Staff Capacity building Program, WASAC- Rwanda: Fifty million, two hundred seven thousand, three hundred Rwandan francs (50,207, 300.00) University of Tourism Technology and Business Studies (UTB)

### **Other unfunded Research Projects Involved**

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2025- todate	<b>Co-PI</b> <ul style="list-style-type: none"><li><i>Research Practice Partnership Experience, Examining the dynamics and outcomes of a research-practice partnership (RPP) between university-based researchers and school-based educators.</i> <i>Faculty Supervisor: Prof. Vanessa Dennen</i></li></ul> <b>PI</b> <ul style="list-style-type: none"><li><i>Exploring the Impact of Institutional AI Limitations on K-12 Senior High School Students' Informal Use, Attitudes, and Learning Behaviors.; RPP Flagship, FSU &amp; Florida State University Schools</i> <i>Faculty Supervisor: Prof. Vanessa Dennen</i></li></ul>
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### ***Researcher Associate***

- *EduGauge System: Enhancing Student Monitoring and Analytics in Online Learning, Innovation in Instructional Design and systems*

*Faculty Supervisor: Dr. Allan Jeong and Dr. Bret Staudt Willet*

### ***Graduate Independent Researcher, PI***

- *Artificial Intelligence for Advancing Instruction (AIAI) Challenge, organized by the University of Virginia. The project focused on developing machine learning models capable of identifying instructional activities and classroom discourse patterns from video data and anonymized audio transcripts, with the goal of enabling scalable analysis to inform instructional improvement.*

*Faculty Supervisor: Dr. Allan Jeong*

### ***Research Associate, Programmer***

- *A Digital Annotation Tool to Deal with Educational Fads on the Internet: EduFadder*

*Faculty Supervisor: Dr. Kadir Kozan*

- *Integration of AI in jMAP tool and its expansion from close-end to both close and Open-ended concept maps creation*

*Faculty Supervisor: Dr. Allan Jeong*

### ***Independent Researcher, Author***

- *Instructional Textbook: Data Structures and Algorithms with Python, Instructor-Student Version*

## **EDITORSHIP OR EDITOR ASSISTANTSHIP**

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2024-

Guest Editor: Scientific journal of Hospitality and Tourism Management  
University of Tourism Technology and Business Studies (UTB), Rwanda

## REVIEWER AND VOLUNTEER SERVICES

### **Reviewer**

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2025 *AECT Conference, 2025*

2024 *AECT Conference, 2024*

### **Volunteership**

2025 *LMS and Technology Integration Advisor, GAPCI/GHU*

2024 *Mentor, Undergraduate Research Opportunity Program*

2024 *ISSA, Secretary*

2023 *AECT Conference, 2023*

## PUBLICATIONS

### **Editorial**

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Jeong, A.C., Wong, R. & **Mbanzabugabo, J.B.** (2025). A systematic review of concept mapping and critical thinking: methodological gaps & research directions. *Education Tech Research Development*. <https://doi.org/10.1007/s11423-025-10562-2>

Prince, R., Niu, Z., Ruranga, C., & **Mbanzabugabo, J.B.** (2025). SA-LAIS-PCGS: Speckle-aware restoration and perceptual enhancement of breast synthetic aperture ultrasound images. 2025 IEEE Conference on Computational Imaging Using Synthetic Apertures (CISA), 1–5. <https://doi.org/10.1109/CISA64343.2025.11091560>

**MBANZABUGABO, J.B.**, Prince, R. (2023). The role of E-commerce in Agriculture digitization, promoting rural development in Rwanda, *Electronic Commerce Research and Applications*, <https://doi.org/10.21203>

Cedric, U., **MBANZABUGABO, J.B.** (2022). Smart School Bus Monitoring and Notification System using Rfid and Gps, *Journal of Ergonomics*, 11(6) No:1000319 <https://doi.org/10.21203/rs.3.rs-2195410/v1>

Patrick, N., **MBANZABUGABO, J.B** (2021). Team Motivational Factors Influencing the Performance of Government Projects In Rwanda. A Case of Electricity Access Rollout Project (EARP); Global Scientific Journals (GSJ), 9(9), ISSN 2320-9186, <https://doi.citefactor.org/10.11216/gsj.2021.09.54190>

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## Books

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## Journal Manuscripts Under Review/ Revision

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**MBANZABUGABO, J.B**, Jeong, A.C. & Bret, S.W. (in review). Automated Online Discussion Analysis: Leveraging Contextual Embeddings and Ensemble Models. Submitted November 2025 to the International Journal of Online Learning.

**MBANZABUGABO, J.B.**, Jeong, A.C. (in review). Generative AI in Higher Education: A Synthesis of Academic Leaders’ Perspectives. Submitted December 2025 to the Springer Nature, Discover Education Journal.

**MBANZABUGABO, J.B**, Jeong, A.C. & Prince, R. (in review). The effect of multimodal learning on knowledge transfer: Examining intervention and control groups in educational settings Submitted December 2025 to the International Journal of Online Learning.

## Manuscripts in Preparation

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**MBANZABUGABO, J.B, & Bret, S.W L.** From Discussion Posts to Learning Patterns:

Understanding Engagement and Argumentation through SNA and ENA (Target Journal: International Journal of Online Learning)

**MBANZABUGABO, J.B, Vanessa, D., Megan, C. & Bret, S.W L.** Impact of Institutional

AI Limitations on K-12 Senior High School Students' Informal Use, Attitudes, and Learning Behaviors. (Target Journal: *Journal of Research on Technology in Education*)

**MBANZABUGABO, J.B, Bung-Woo, J. & Damilare, A.** How Generative AI in K-12

Education Helps Students Develop Computational Thinking (CT) (Target Journal: *Education Tech Research Development and International Journal of AI in Education*)

## Referred Conference Presentation/Poster

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### 2025 AECT Conference, Las Vegas

- MBANZABUGABO, J.B., Jeong, A.C. & Prince, R. (Accepted). The effect of multimodal learning on knowledge transfer: Examining intervention and control groups in educational settings. Concurrent paper presentation
- Kozan, K., MBANZABUGABO, J.B. (Accepted). A Digital Annotation Tool to Deal with Educational Fads on the Internet: EduFadder. Poster presentation
- MBANZABUGABO, J.B, Jeong, A.C. (Accepted). EduGauge System: Enhancing Student Monitoring and Analytics in Online Learning, Roundtable Presentation

### 2025 TCC Conference- Hawaii

- MBANZABUGABO, J.B. (in review). Generative AI in Higher Education: A Synthesis of Academic Leaders' Perspectives. Concurrent Paper presentation (Online) the and received an Outstanding Award paper.

### 2024 AECT Conference, Kansas City, Missouri

- MBANZABUGABO, J.B., Jeong, A.C. (Accepted). Automated Online Discussion Analysis: Leveraging Contextual Embeddings and Ensemble Models. Concurrent Paper presentation
- MBANZABUGABO, J.B. (Accepted). Developing A Personal Performance Support System with Generative AI. *Roundtable Presentation*.

## REFERENCES

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### Declaration

I, the undersigned, certify that, to the best of my knowledge and belief, this CV accurately describes my qualifications, experience, and professional background.

**Jean Baptiste MBANZABUGABO**

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Name



2025

Signed