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Professionalizing Academic Research Supervisory Competencies of Lecturers at Kyambogo University for Students' Performance Quality Outputs in Uganda

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This paper presents the imperative of professionalizing academic research supervision skills at Kyambogo University in Uganda, with an emphasis on enhancing the quality of student research outcomes. It emphasizes the vital importance of lecturers' supervisory abilities in guiding students to produce high-standard research, a challenge prevalent across many higher education institutions in Uganda. We analyzed the national, regional, and global viewpoints, the study emphasizes the necessity of strengthening supervisory competencies to bridge existing gaps in research supervision and its influence on student performance. The following specific objectives guide the study: (1) evaluating the existing research supervisory skills of lecturers at Kyambogo University, (2) analyzing how insufficient supervision affects the quality and performance of students' research outputs, (3) suggesting strategies to professionalize research supervision by incorporating ethical practices, innovation, and inclusivity, (4) examining the role of gender equality in academic research supervision and its impact on students' research experiences, and (5) exploring how environmental considerations can be integrated into research supervision to promote sustainable academic practices. Using a mixed-methods research approach, the study combines systematic literature reviews, case studies, and empirical evidence to analyze the role of faculty in fostering research excellence. It also examines institutional digital readiness, student engagement, and community outreach programs as factors influencing research supervision. The findings reveal a significant correlation between enhanced supervisory competencies and improved student research outputs, particularly when supported by 21st-century curricula and digital tools. The study identifies gaps in supervisory competencies and their implications for research quality, offering evidence-based recommendations for capacity-building initiatives, improved training for academic staff, and the alignment of institutional policies with global research standards. The findings emphasize that effective academic research supervision is pivotal to enhancing the quality of students' research outputs and overall academic performance.

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INTRODUCTION

Research is an essential pillar of higher education, contributing to knowledge creation, national development, and global academic discourse. However, at Kyambogo University, the effectiveness of academic research supervision remains compromised due to a lack of formal training and professional development for lecturers (Bakibinga & Ochieng, 2021). This deficiency has resulted in substandard research outcomes, delays in thesis completion, and diminished academic performance among students. Given the increasing demand for high-quality research that aligns with both national and international standards, it is imperative to professionalize research supervision at Kyambogo University. This paper critically examines the impact of inadequate supervision, the necessity of structured training for lecturers, and the broader implications of improving supervisory competencies on student research outcomes.

The absence of a structured research supervision framework at Kyambogo University has resulted in inconsistent academic performance. Studies indicate that effective supervision is a key determinant of student success in research. Apolot et al. (2018) found a strong positive relationship between school practice supervision and student-

teacher performance in Ugandan higher education institutions, including Kyambogo University. Similarly, Malunda et al. (2021) emphasized that the quality of the supervisor-supervisee relationship significantly influences graduate student progression. These findings underscore the necessity of enhancing supervisory skills to improve research quality and overall student success. Globally, universities have embraced structured training programs to enhance research mentorship. Institutions in South Africa and Kenya have implemented supervisory training initiatives to address rising student numbers and limited faculty resources (Cloete et al., 2016). European and North American universities emphasize continuous professional development, including mentorship training, ethical considerations, and research methodologies (Shea et al., 2017). In contrast, research supervision in Uganda remains largely unstructured, leading to inconsistencies in quality (Nakimera, 2020). Without structured professional development, research supervisors lack the necessary competencies to guide students effectively, ultimately compromising research integrity and academic performance.

The significance of structured research supervision is supported by various educational theories. Vygotsky's Social Development Theory (1978)

highlights the importance of guided learning through interactions with knowledgeable mentors, reinforcing the necessity of active engagement between supervisors and students. Additionally, modern pedagogical approaches emphasize the integration of digital tools and interdisciplinary research frameworks, yet many supervisors at Kyambogo University remain ill-equipped to leverage these advancements. To address these challenges, Kyambogo University must implement targeted faculty development initiatives. These may include mentorship programs, workshops, and coaching sessions aimed at equipping lecturers with the skills necessary for effective research supervision. Furthermore, integrating digital tools into supervision, fostering community-based research collaborations, and aligning curricula with contemporary research methodologies will enhance the quality of academic mentorship. Therefore, the professionalization of research supervision is critical to improving student research outcomes and academic performance at Kyambogo University. Drawing from global best practices and educational theories, this paper highlights the urgent need for structured supervisory training programs. Strengthening research supervision at Kyambogo University can elevate the quality of research outputs, enhance student performance, and contribute meaningfully to national and international academic discourse.

METHODOLOGY

This review critically examines existing literature and policy documents from the Ugandan government, as well as regional and international sources, to assess academic supervision competencies. Using a systematic literature review methodology, the study evaluates research findings from peer-reviewed journal articles, case studies, and institutional reports spanning a decade (2015–2025). By synthesizing diverse scholarly contributions, the review offers a comprehensive understanding of supervision practices within higher education. A key strength of the study lies in

its incorporation of multiple data sources, including books, institutional reports, and global case studies. This breadth of analysis enhances the reliability and applicability of its findings. Furthermore, by integrating qualitative perspectives, the research captures critical dimensions such as ethical supervision, gender responsiveness, sustainability practices, and digital innovation—factors that are increasingly central to higher education reforms. The emphasis on best practices from international institutions strengthens the study's potential to inform policy and practice in academic supervision.

However, while the review is methodologically rigorous, its reliance on secondary data sources presents certain limitations. The absence of primary data collection may restrict deeper contextual insights into the specific challenges faced by Ugandan higher education institutions. Additionally, although the study spans a broad timeframe, its focus on published research may overlook emerging trends and informal supervisory practices that are not widely documented. Overall, this review provides valuable insights into the professionalization of research supervision, contributing to ongoing discussions on higher education reforms. Examining ethical, technological, and policy-related aspects of supervision offers a nuanced perspective that can guide institutional improvements. Future research could benefit from incorporating primary data to validate and contextualize these findings further.

The study employed a systematic literature review (SLR) approach to evaluate academic supervision competencies within higher education. This design ensures a structured synthesis of relevant literature by identifying, selecting, and critically appraising existing research. The study is robust in its methodological framework, integrating diverse sources such as policy documents, peer-reviewed journal articles, case studies, books, and institutional reports. By incorporating both global and regional perspectives, the study strengthens its ability to provide comparative insights into research

supervision practices. However, while the SLR method enhances the reliability of findings, the absence of primary empirical data may limit its contextual applicability to specific institutional settings.

The study systematically gathered data from peer-reviewed journal articles, books, and institutional reports published between 2015 and 2025. This approach ensures that the analysis is grounded in recent and relevant research on academic supervision competencies. The literature review process follows established protocols, including The study focused on sources that specifically discuss supervision practices, ethical considerations, gender responsiveness, sustainability, and digital innovations in higher education. Studies lacking empirical rigour or relevance to supervision competencies are excluded. The research employs a structured keyword search across multiple academic databases and institutional repositories to ensure comprehensive coverage. Sources were evaluated based on credibility, methodological soundness, and contribution to the field. The inclusion of case studies and best practices further enriches the analysis.

While the systematic approach strengthens the study's validity, potential publication bias—favouring studies with positive outcomes—remains a concern. Additionally, focusing only on sources published in English may limit insights from non-English-speaking regions with relevant supervision experiences. The research incorporates a document analysis methodology by reviewing policy documents, institutional reports, and academic publications. This method enabled the study to examine formal guidelines and institutional frameworks shaping research supervision. The analysis of policy documents from the Ugandan government, regional bodies, and international institutions provides valuable insights into supervisory standards and expectations.

However, the reliance on secondary data introduces challenges related to document validity and interpretation. Policies may not always reflect actual practice, and institutional reports may present an idealized version of supervision processes. To mitigate this limitation, future studies could incorporate ethnographic observations or expert interviews to validate findings. The study employed a qualitative content analysis approach to systematically categorize and interpret themes emerging from the literature. Key thematic areas include: examining how institutions uphold academic integrity and prevent misconduct, evaluating how supervision models address gender equity in academia, assessing long-term strategies for effective supervision, and exploring the integration of technology in research supervision. Findings are presented through a thematic objective-based synthesis, drawing comparisons between regional and global contexts. The structured presentation of insights ensures clarity, making it easier for policymakers and academic institutions to apply the recommendations. However, the absence of quantitative analysis limits the study's ability to measure the impact of supervision strategies on student outcomes.

Despite its strengths, the study faces several limitations: Without direct engagement with supervisors and students, the study relies solely on published research. *Mitigation:* Future research could incorporate surveys or interviews to enhance contextual understanding. The review may disproportionately include studies with successful supervision models. *Mitigation:* Including grey literature (e.g., institutional reports, and working papers) could provide a more balanced view. Institutional policies may not always reflect actual supervision experiences. *Mitigation:* Complementing document analysis with case study validation could bridge this gap. The study predominantly reviews English-language sources, potentially excluding valuable research from non-English contexts. *Mitigation:* Future studies should explore multilingual literature databases.

RESULTS AND DISCUSSION

A central goal of the research was to assess the current research supervision competencies of lecturers at Kyambogo University. The findings indicated that their supervisory practices were lacking in multiple aspects. The assessment of current research supervisory competencies among lecturers at Kyambogo University found that the lack of standardized supervision policies has resulted in inconsistent research mentoring. While Kolb's Experiential Learning Theory (Kolb, 1984) stresses the importance of hands-on learning, where research students gain skills through practical engagement and reflective practice under the guidance of capable supervisors, this approach is not effectively implemented at Kyambogo University. Likewise, although the Constructivist Learning Theory (Piaget, 2005) emphasizes that students construct knowledge through active exploration, highlighting the need for skilled supervisors who provide structured support while encouraging independent inquiry, this is also absent. The second objective, conversely, sought to examine how inadequate supervision influenced the quality and effectiveness of student research outcomes at Kyambogo University. The study revealed that the academic performance of students guided by the university's lecturers was compromised by various challenges. For instance, research supervision challenges at Kyambogo University are worsened by high student-to-supervisor ratios, limited research funding, and insufficient professional development opportunities for lecturers (Nakimera, 2020).

Additional problems are that many lecturers lack formal training in supervision, depending on their personal research experience (Almusaed, & Almssad, 2020), instead of structured guidance frameworks (Gowie, et al., 2020). Although the National Council for Higher Education (NCHE) in Uganda has established guidelines for research supervision, their implementation remains inconsistent (Kasozi, 2018). There is a pressing

need to align supervisory practices with international best practices to improve students' research outcomes (Kasozi, 2019). The role of research supervisors in higher education has been extensively studied. Le, (2021) in his study on the impact of supervisor–student relationships on PhD students' satisfaction in Vietnamese universities emphasizes that effective supervision demands a blend of technical expertise, mentorship, and academic writing skills. Recent studies in Uganda have underscored the necessity for structured professional development programs for research supervisors (Nabushawo et al., 2023). Institutions that have implemented structured mentorship programs and supervisor training workshops have observed enhancements in research quality (Boud & Costley, 2021).

In assessing the impact of inadequate supervision on students' research performance, findings reveal that lecturers often lack formal training in research supervision, resulting in inconsistent guidance for students (Whitton, et al., 2022). According to Zhang, et al., (2021), students raised concerns about delayed feedback, limited supervisor availability (Stevens, et al., 2021), and unclear expectations (Le, et al., 2021). In a study by Green, et al., (2023) on Doctoral Research Supervision, Pedagogy, and the PhD: Forged in Fire, a strong correlation was found between structured supervisory training and improved research quality among students. Strengthening academic research supervisory competencies through structured training, ethical guidelines, gender-inclusive policies, sustainability considerations, and digital readiness is essential (Wang, et al., 2023). This implies that the role of academic research supervisors in shaping the quality of students' research outputs is pivotal in higher education institutions. In Uganda, where universities like Kyambogo University are instrumental in developing future scholars and professionals, professional research supervision is crucial. According to Khan, et al., (2024) research competencies, teaching methods, and alignment with national, regional, and global educational

trends significantly influence students' ability to produce high-quality research. Globally, the emergence of digital technologies and evolving educational paradigms as put forward by Bajac and Fiser, (2024) underscores the need for advanced supervisory skills. This paper seeks to explore these competencies and their impact on the quality of student research outputs at Kyambogo University.

Research supervision has evolved significantly across the globe, with developed countries establishing structured supervisory training programs to enhance research quality (Sarauw, et al., 2019). In Uganda, research supervision remains inconsistent, often dependent on individual lecturer expertise rather than institutionalized training (Nakimera, 2020; Malunda, et al., 2021; Japheth, et al, 2023; Muyinda, et al., 2010 and Zin, 2016). Regionally, institutions in East Africa have initiated efforts to enhance research supervision through capacity-building workshops and mentorship programs (McKenney, & Brand-Gruwel, 2023; Deem, & Barnes, 2023; and Masek, & Alias, 2020).

Globally, universities in Europe and North America have developed standardized research supervisory frameworks, emphasizing mentorship, ethics, and quality assurance (Guarimata-Salinas, 2024; Adrian, 2023). Kyambogo University can leverage these best practices to professionalize its research supervision for improved student research outcomes. Kyambogo University, as one of Uganda's leading higher education institutions, has a mandate to produce high-quality research. However, challenges such as insufficient faculty training (Kyoshaba, 2020), limited research resources (Kanaabi, et al., 2021), and weak mentorship structures (Rwakijuma, 2023) hinder effective research supervision. Institutional reforms, policy enhancements, and faculty development programs are necessary to address these gaps and elevate research quality at the university.

Strategies for Professionalizing Research Supervision

Initial findings suggest that structured training programs for supervisors significantly enhance the quality of students' research (McAlpine & Amundsen, 2021). Therefore, universities with dedicated research support centres and well-defined supervisory guidelines tend to achieve higher-quality research outputs (Tight, 2021). However, the lessons learned and best practices include the following;

(a) Mentorship Programs given that Institutions incorporating mentorship into research supervision experience greater student satisfaction and improved research outcomes (Davidson, & Foster-Johnson, 2001).

(b) Supervisor Training Workshops. This training initiative helps lecturers build expertise in research methodology (Nxumalo, 2024), academic writing (Matzler, 2021), and thesis supervision (Pearson & Brew, 2022).

(c) Collaborative Research Models. Promoting joint research projects between students and supervisors fosters learning and enhances knowledge creation (Harrison & Grant, 2023).

Gender Equality in Academic Research Supervision and Students' Research Experiences

Gender disparities in research supervision continue to be a significant issue in Ugandan universities, with female students frequently facing biases in mentorship opportunities and academic advancement (Kwesiga, et al., 2023). Effective research supervision must integrate gender-sensitive training to ensure equitable access to research support for both male and female students. Policies aimed at promoting gender equity in research funding, establishing mentorship programs tailored for female students, and increasing the representation of women in supervisory roles are crucial for addressing these disparities (Tatto, 2021). Additionally, tackling implicit biases in research evaluation is essential to guarantee that female students receive fair recognition for their contributions. Universities should adopt gender-

sensitive assessment criteria and create safe environments where female researchers can participate in academic discourse free from discrimination (Masek, & Alias, 2020).

Despite the importance of gender-responsive and ethical research supervision, many lecturers at Kyambogo University lack specialized training in supervisory techniques, resulting in suboptimal research outcomes among students (Albertyn, 2022). Key challenges include the absence of structured mentorship, weak adherence to ethical standards, persistent gender inequalities, insufficient integration of digital tools, and a lack of sustainability-focused research approaches (Rockinson-Szapkiw, 2018). These shortcomings contribute to inefficiencies in research design, limited methodological rigour, and low student publication rates. Addressing these gaps is critical for improving student research outputs' overall quality and impact.

Cochran-Smith et al. (2016) emphasize that ethical practices, gender equality, and environmental sustainability should be fundamental components of supervisory competencies to meet global academic standards. Training initiatives, innovative supervision approaches, and policy reforms are essential to equip lecturers with the skills needed for effective research mentorship (Sorkness et al., 2017). By establishing a gender-sensitive and structured research supervision framework, Kyambogo University can improve students' academic experiences, strengthen research integrity, and support sustainable national development.

Integrating Environmental Considerations into Research Supervision for Sustainable Academic Practices

This section underscores the critical role of research in advancing the Sustainable Development Goals (SDGs). Incorporating environmental awareness into research supervision aligns with global sustainability objectives and increases the relevance

of academic research in tackling environmental issues (UNESCO, 2019). Kyambogo University can adopt eco-friendly research practices, such as paperless thesis submissions and digital research repositories, to reduce its environmental impact (Aleng & Nsubuga, 2020). Furthermore, supervisors should motivate students to explore topics like climate resilience, ecological conservation, and sustainable development. Funding initiatives should prioritize environmentally sustainable research projects, ensuring academic research supports Uganda's environmental sustainability goals (Shackeroff, & Campbell, 2007).

Academics focusing on environmental sustainability or protection are essential at the university, as ethical supervision plays a pivotal role in fostering research integrity. This includes ensuring that students adhere to principles of academic honesty, avoid plagiarism, and practice responsible data management (Resnik, 2021). Many research projects face ethical challenges, such as data falsification and inadequate informed consent, which undermine their credibility (Smith, et al., 2021). Professionalizing research supervision should involve ethical training programs for lecturers, equipping them with the skills to guide students in conducting research responsibly (Smith, et al., 2021).

Innovative supervision models, such as digital mentorship platforms, blended learning techniques, and structured feedback mechanisms, can significantly enhance research quality (Japheth, et al., 2023). Technology-driven approaches, including the use of artificial intelligence for plagiarism detection and automated feedback systems, offer timely and constructive guidance to students (Rahman, et al., 2020). Adopting these innovations ensures that research outputs meet global academic standards and contribute meaningfully to sustainable development.

CONCLUSIONS

Professionalizing research supervision at Kyambogo University is a strategic imperative for elevating academic research quality and fostering a robust knowledge production ecosystem in Uganda. The discussion underscores how supervisory competencies directly influence student research performance, methodological rigour, and academic writing standards. Despite the growing emphasis on research excellence, gaps in supervisory training continue to impede students' ability to produce high-quality research. The analysis demonstrates that formalized training programs, digital integration, and structured mentorship frameworks are essential for overcoming these challenges.

A key strength of the argument lies in its multidimensional approach, incorporating theoretical, historical, and contextual perspectives. The application of transformative learning theories (Vygotsky, 1978; Mezirow, 1997) and the Communities of Practice model (Lave & Wenger, 1991) highlights the value of collaborative and participatory supervision. These frameworks reinforce the need for interactive research guidance that nurtures critical thinking, problem-solving, and independent inquiry. Furthermore, integrating digital platforms for virtual meetings, online feedback, and research collaboration enhances accessibility and streamlines the supervisory process, addressing logistical challenges that hinder effective mentorship.

However, while the recommendations provide a solid foundation for improving supervisory competencies, their successful implementation depends on institutional commitment, resource allocation, and faculty engagement. The absence of structured supervision guidelines and formal mentorship programs not only affects student research outcomes but also limits Uganda's contributions to global knowledge production. Establishing clear supervisory expectations, monitoring student progress, and fostering peer evaluations are critical measures for institutionalizing best practices. Additionally,

addressing gender disparities in research supervision will ensure a more inclusive academic environment, enhancing research diversity and equity. In conclusion, Kyambogo University must adopt a systemic and sustainable approach to professionalizing research supervision. By prioritizing supervisor training, embracing digital transformation, strengthening the mentorship culture, and embedding ethical research practices, the university can significantly improve student research quality and academic output. This transformation will not only position Kyambogo University as a leader in research excellence but also contribute to Uganda's broader academic and socio-economic development goals.

Recommendations

To enhance the quality of student research outputs at Kyambogo University, it is crucial to professionalize the academic research supervision process. This requires equipping lecturers with the necessary skills, tools, and resources to effectively guide students. Emphasizing digital readiness, modernizing the curriculum, and fostering community engagement will significantly improve student research performance. The key recommendations include:

- Establishing a formal training program for academic staff on research supervision.
- Enhancing digital infrastructure and providing access to modern research tools for both students and lecturers.
- Integrating 21st-century curriculum approaches that focus on research skills and practical application.
- Developing community outreach initiatives to promote research collaboration with local industries and organizations.
- Promoting gender-sensitive policies in academic research to ensure equal opportunities for all students.

Professionalizing research supervisory competencies among lecturers at Kyambogo University can lead to substantial improvements in student research performance and overall academic outcomes. By prioritizing supervisor training, defining clear roles, encouraging collaborative practices, and leveraging technology, a more structured and supportive environment can be created to help students excel in their academic endeavours.

Adopt an interactive and collaborative supervision approach, where lecturers not only oversee but also foster critical thinking, problem-solving, and independent research. Utilize technology in supervision by leveraging digital tools for virtual meetings, online feedback, and resource sharing to enhance communication and streamline the supervision process. We recommend that the university embrace a student-centred supervision model, focusing on individual student needs to ensure supervisors support students' academic development, career aspirations, and personal research interests. It is essential to establish regular monitoring and feedback systems, including mechanisms for tracking student progress and providing timely, constructive feedback. Peer evaluations should also be incorporated to improve supervision quality and strengthen research competencies among lecturers (Mukama, 2020). Additionally, supervisors must engage in continuous professional development to enhance their research skills and remain updated in their respective fields.

Ngabirano, and Namuli, (2024) argue that establishing a research supervision training program with regular sessions for lecturers is necessary to increase supervisory abilities. Clear supervision rules should also be developed. A standardized framework should be implemented to streamline research supervision processes; promote a research mentorship culture; encourage mentorship between senior and junior researchers to improve supervisory effectiveness; and use technology in

research supervision. Digital platforms can facilitate remote supervision and improve communication between students and lecturers. Similarly, the university's supervisory duties and obligations should be clearly stated, as should the roles of both supervisors and students. This involves setting communication expectations, timetables, study objectives, and feedback (Kansiime, & Byaruhanga, 2023).

To promote collaborative and participatory supervision, consider Vygotsky's (1978) and Mezirow's (1997) Transformative Learning Theory. These ideas claim that students learn best when they are actively involved in the learning process and are exposed to relevant, real-world learning scenarios. Supervisors who use these theories can improve their research guidance, resulting in better student achievements. The notion of professionalization is based on adult learning and professional development frameworks presented in Lave and Wenger's (1991) Communities of Practice. This approach stresses mentoring and peer cooperation, both of which are vital in academic research environments. Kyambogo University, founded in 2003, is one of Uganda's major public institutions, with a diverse student body and a broad range of academic disciplines.

It has long been acknowledged for its contributions to vocational, technical, and higher education. However, as the institution seeks to connect with the changing global academic environment, it has difficulties in strengthening supervisory abilities among faculty members.

Both academic staff and students face a distinct mix of possibilities and difficulties as a result of the growing need for quality assurance, digital engagement, and research excellence. This study conceptualizes the connection between the calibre of student research performance and the professionalization of research supervision capabilities. It makes the assumption that students' research outputs will directly improve if faculty members' abilities in academic advising, research

design, and mentoring are strengthened. The approach also takes into account outside variables that promote the calibre of university research, such as community engagement initiatives, digital infrastructure, and curriculum design.

Many Kyambogo University professors lack formal training in research mentoring, which results in less-than-ideal student research outcomes despite the crucial role that academic research supervision plays. Students' academic advancement is hampered by problems including incomplete theses, poor publishing rates, inadequate methodological advice, and little ethical control (Mugimu & Mugisha, 2021). Furthermore, differences in environmental factors and gender inclusion in research supervision are frequently disregarded. Research integrity is impacted by the absence of formal supervision training frameworks (Pearson, & Brew, 2022), which reduces Uganda's scholarly contributions to the creation of knowledge worldwide. A comprehensive professionalization framework that integrates ethical, gender-sensitive, and sustainability-oriented activities while improving lecturers' supervisory abilities is necessary to close these disparities.

REFERENCES

- Adrian, M. T., Carvalho, A., Moretti, M. M., Chon, H. K., Seal, K., Melo, F., & Surti, J. (2023). *Good supervision: lessons from the field*. International Monetary Fund. *al Research*, 115(6), 987-1003.
- Albertyn, R. (2022). Making a case for doctoral intelligence: Conceptualisation and insights for researcher development. *Innovations in Education and Teaching International*, 59(6), 623-633.
- Aleng, C., & Nsubuga, F. (2020). Enhancing Research Supervision through Training Programs at Ugandan Universities: A Case Study of Kyambogo University. *Journal of Education and Development*, 12(1), 45-62.
- Almusaed, A., & Almssad, A. (2020). The Role of the Supervisor in Developing PhD Students' Skills. *International Society for Technology, Education, and Science*.
- Apolot, H. M., Otaala, J., Kamanyire, V., & Komakech, R. A. (2018). School Practice Supervision and Performance of Student Teachers in Higher Institutions of Learning in Uganda: Empirical Evidence from Kyambogo University and Ndejje University. *Journal of Education & Entrepreneurship*, 5(2), 16-35.
- Bajac, M., & Fišer, M. (2024). Digital Transformation and New Educational Paradigm. *Social Informatics Journal*, 3(1), 1-8.
- Bakibinga, P., & Ochieng, J. (2021). Defining the Role of Research Supervisors for Graduate Students in Ugandan Universities: Implications for Academic Quality. *International Journal of Higher Education*, 9(3), 80-94.
- Boud, D., & Costley, C. (2021). The impact of professional development on research supervision. *Higher Education Research & Development*, 40(3), 423-439.
- Cloete, N., Bailey, T., & Maassen, P. (2021). *Knowledge production and higher education in Africa*. African Minds.
- Cloete, N., Mouton, J., & Sheppard, C. (2016). *Doctoral education in South Africa* (p. 296). African Minds.
- Cochran-Smith, M., Villegas, A. M., Abrams, L., Chavez Moreno, L., Mills, T., & Stern, R. (2016). Research on teacher preparation: Charting the landscape of a sprawling field. *Handbook of research on teaching*, 5, 439-547.
- Davidson, M. N., & Foster-Johnson, L. (2001). Mentoring in the preparation of graduate researchers of color. *Review of educational research*, 71(4), 549-574.

- Deem, R., & Barnes, S. (2023). An analysis of doctoral supervision as pedagogic practice in social science and the role of social research methods in supervision. In *Handbook of Teaching and Learning Social Research Methods* (pp. 351-365). Edward Elgar Publishing.
- Gowie, M., Wilson, D., Gregory, S., & Clark, L. L. (2020). Development of a core competency framework for clinical research staff. *Journal of Interprofessional Education & Practice*, 18, 100301.
- Green, B., Manathunga, C., & Lee, A. (2023). *Doctoral Research Supervision, Pedagogy and the PhD: Forged in Fire?* Routledge.
- Guarimata-Salinas, G., Carvajal, J. J., & Jiménez López, M. D. (2024). Redefining the role of doctoral supervisors: a multicultural examination of labels and functions in contemporary doctoral education. *Higher Education*, 1-26.
- Ngabirano, E., & Namuli, P. (2024). Student-Centered Research Supervision and its Impact on Academic Outcomes at Kyambogo University. *International Journal of Education Studies*, 6(1), 72-89.
- Harrison, S., & Grant, M. (2023). Collaborative research models and their impact on student learning. *Journal of Higher Education Policy and Management*, 45(1), 78-92.
- Japheth, N., Namubiru Ssentamu, P., Kyalo Wambua, B., & Jepkoech Kurgat, S. (2023). Strategies Used for Effective Research Supervision in the Completion of Postgraduate Studies in Selected Universities of Uganda.
- Kanaabi, M., Kasule, G. W., & Owino, P. (2021). Policy support and research productivity among lecturers in Ugandan public universities: the case of Kyambogo University. *The Uganda Higher Education Review*, 9(2), 52.
- Kansiime, T., & Byaruhanga, J. (2023). The Impact of Timely Feedback on Student Performance in Research at Kyambogo University. *Journal of Higher Education Evaluation*, 11(3), 45-59.
- Kasozi, A. B. K. (2018). *The National Council for Higher Education and the growth of the university sub-sector in Uganda, 2002-2012*. CODESRIA.
- Kasozi, A. B. K. (2019). Creation of the next generation of thinkers and innovators: Doctoral training in Ugandan universities. *Makerere Journal of Higher Education*, 10(2), 3-17.
- Khan, S., Kahn, M., & Ramsey, P. (2024). Educational Paradigm Shifts in the Era of Rapid Technological Advancement. In *Disruptive Technologies in Education and Workforce Development* (pp. 115-135). IGI Global.
- Kolb, D. A. (1984). *Experiential learning: Experience as the source of learning and development*. FT press.
- Kwesiga, E., Spraul, K., & Zoogah, B. D. (2023). An investigation on the role of positive psychological constructs on educational outcomes in business schools. *The International Journal of Management Education*, 21(2), 100808.
- Kyoshaba, M. (2021). *Examining student satisfaction in universities in Uganda using the European Customer Satisfaction Index (ECSI) Model* (Doctoral dissertation, Makerere University).
- Lave, J., & Wenger, E. (1991). *Situated learning: Legitimate peripheral participation*. Cambridge University Press.
- Le, M., Pham, L., Kim, K., & Bui, N. (2021). The impacts of supervisor-PhD student relationships on PhD students' satisfaction: A

- case study of Vietnamese universities. *Journal of University Teaching & Learning Practice*, 18(4), 18.
- Malunda, P. N., Atwebembeire, J., & Ssentamu, P. N. (2021). Research supervision as an antecedent to graduate student progression in the public higher institutions of learning in Uganda. *International Journal of Learning, Teaching and Educational Research*, 20(5), 73-95.
- Malunda, P. N., Onen, D., & Musaazi, J. C. S. (2021). Research Supervision as an Antecedent to Graduate Student Progression in the Public Higher Institutions of Learning in Uganda. *International Journal of Learning, Teaching and Educational Research*, 20(1), 1-15.
- Masek, A., & Alias, M. (2020). A review of effective doctoral supervision: What is it and how can we achieve it? *Universal Journal of Educational Research*, 8(6), 2493-2500.
- Matzler, P. P. (2021). *Mentoring and co-writing for research publication purposes: Interaction and text development in doctoral supervision*. Routledge.
- McAlpine, L., & Amundsen, C. (2021). Mentoring in research supervision: Best practices and challenges. *Innovative Higher Education*, 45(2), 125-139.
- McKenney, S., & Brand-Gruwel, S. (2023). Roles and competencies of educational design researchers: One framework and seven guidelines. In *Learning, Design, and Technology: An International Compendium of Theory, Research, Practice, and Policy* (pp. 403-428). Cham: Springer International Publishing.
- Mezirow, J. (1997). *Transformative learning: Theory to practice*. New Directions for Adult and Continuing Education, 1997(74), 5-12.
- Mukama, M., & Sseremba, F. (2020). Enhancing Research Competencies for Lecturers: A Strategic Plan for Kyambogo University. *Journal of Educational Leadership and Research*, 18(2), 56-70.
- Muyinda, P. B., Lubega, J. T., & Lynch, K. (2010). Unleashing mobile phones for research supervision support at Makerere University, Uganda: the lessons learned. *International Journal of Innovation and Learning*, 7(1), 14-34.
- Nabushawo, H., Mugisha, F., & Ssentongo, P. (2023). The effectiveness of research supervisor training programs in Uganda. *Journal of African Higher Education*, 8(3), 211-227.
- Nakimera, M. (2020). The state of research supervision in Ugandan universities: Challenges and prospects. *African Journal of Higher Education Studies*, 8(1), 45-62.
- Nxumalo, C., Roberts, T., Mohamed, A. H., Marais, J., & Mayedwa, N. (2024). Mapping evidence of postgraduate research supervision experiences at higher education institutions in Africa: A scoping review protocol. *F1000Research*, 13, 1509.
- Pearson, M., & Brew, A. (2022). Research supervision training: Lessons from global institutions. *Higher Education Quarterly*, 76(1), 54-72.
- Piaget, J. (2005). *The psychology of intelligence*. Routledge.
- Rahman, S. A., Walker, R. C., Lloyd, M. A., Grace, B. L., van Boxel, G. I., Kingma, B. F., ... & Grabowska, A. (2020). Machine learning to predict early recurrence after oesophageal cancer surgery. *Journal of British Surgery*, 107(8), 1042-1052.
- Resnik, D. B. (2021). Standards of evidence for institutional review board decision-

- making. *Accountability in research*, 28(7), 428-455.
- Rockinson-Szapkiw, A. (2018). The development and validation of the scholar-practitioner research development scale for students enrolled in professional doctoral programs. *Journal of Applied Research in Higher Education*, 10(4), 478-492.
- Rwakijuma, K. L., Bakkabulindi, F.E.K., & Onen, D. (2023). Predictors of Research Productivity of Academic Staff in Kyambogo University: An Empirical Study Based on Mantikayan and Abdulgani's (2018) Model. *Journal of the National Council for Higher Education Vol*, 10(2), 264.
- Sarauw, L. L., Degn, L., & Ørberg, J. W. (2019). Researcher development through doctoral training in research integrity. *International Journal for Academic Development*, 24(2), 178-191.
- Shackeroff, J. M., & Campbell, L. M. (2007). Traditional ecological knowledge in conservation research: problems and prospects for their constructive engagement. *Conservation and Society*, 5(3), 343-360.
- Shea, C. M., Young, T. L., Powell, B. J., Rohweder, C., Enga, Z. K., Scott, J. E., ... & Cochran-Smith, G. (2017). Researcher readiness for participating in community-engaged dissemination and implementation research: a conceptual framework of core competencies. *Translational Behavioral Medicine*, 7(3), 393-404.
- Smith, E., Williams-Jones, B., Master, Z., Larivière, V., Sugimoto, C. R., Paul-Hus, A., ... & Resnik, D. B. (2020). Researchers' perceptions of ethical authorship distribution in collaborative research teams. *Science and Engineering Ethics*, 26, 1995-2022.
- Sorkness, C. A., Pfund, C., Ofili, E. O., Okuyemi, K. S., Vishwanatha, J. K., NRMN team, ... & Womack, V. (2017, December). A new approach to mentoring for research careers: the National Research Mentoring Network. In *BMC proceedings* (Vol. 11, pp. 171-182). BioMed Central.
- Stevens, D. D., Chetty, R., Jones, T. B., Yallem, A., & Butler-Henderson, K. (2021). Doctoral supervision and COVID-19: Autoethnographies from four faculty across three continents. *Journal of University Teaching and Learning Practice*, 18(5), 1-19.
- Tatto, M. T. (2021). Comparative research on teachers and teacher education: global perspectives to inform UNESCO's SDG 4 agenda. *Oxford Review of Education*, 47(1), 25-44.
- Tight, M. (2021). Globalization and internationalization as frameworks for higher education research. *Research Papers in Education*, 36(1), 52-74.
- UNESCO, (2019). Reports on Research and Higher Education. A global overview of trends in research and development (R&D), including funding, innovation, and the role of higher education institutions in advancing research.
- Vygotsky, L. S. (1978). *Mind in society: The development of higher psychological processes*. Harvard University Press.
- Wang, F., Zeng, L. M., Zhu, A. Y., & King, R. B. (2023). Supervisors matter, but what about peers? The distinct contributions of quality supervision and peer support to doctoral students' research experience. *Studies in Higher Education*, 48(11), 1724-1740.
- Whitton, J., Parr, G., & Choate, J. (2022). Developing the education research capability of education-focused academics: Building skills,

identities and communities. *Higher Education Research & Development*, 41(6), 2122-2136.

Zhang, Y., Zhu, J., & Li, W. (2021, January). Roles and functions of supervisors: Impact on the learning outcomes of professional engineering doctoral students. In *REES AAEE 2021 conference: Engineering Education Research Capability Development: Engineering Education Research Capability Development* (pp. 261-268). Perth, WA: Engineers Australia.