DR JULIUS SECHANG MBOLI

Academic & Professional Profile · Updated October 2026
Lecturer, Centre of Excellence for Data Science, AI & Modelling (DAIM), University of Hull · Senior Fellow of Advance HE (SFHEA)

Focus. Artificial intelligence, agentic AI and human–AI teaming, responsible AI, IoT and circular economy, data science and decision support, digital trade, interdisciplinary AI research, leadership and inclusive technical training.

RESEARCH & APPLIED INNOVATION

- Responsible AI and generative-AI ethics: co-author of a published 2026 PMLR paper examining moral decoupling in discourse around generative AI; human annotation and NLP analysis of 7,371 Reddit posts.
- AI, circularity and sustainability: IoT-enabled circular-economy decision support (Wiley); Digital Twin Handbook chapter (2025); waste classification using transfer learning and computer vision (2026 preprint).
- Digital trade: Co-Investigator, Innovate UK-funded PROGRESS physical-assurance digital-trade collaboration, Teesside University and partners (2023–2025).
- Applied agentic AI and energy: Energentic team member exploring modular, explainable AI agents for energy systems and commercialisation through Innovate UK ICURe.

ACADEMIC LEADERSHIP & TEACHING

- Senior Fellowship (SFHEA, 2026) for leadership and sustained influence in teaching, curriculum innovation, mentoring and inclusive practice. Fellow (FHEA) awarded in 2024.
- Contributed strategic leadership to DAIM recruitment and led development of MSc AI for Business; delivered teaching in Big Data and Data Mining, Applied Artificial Intelligence, AI for Marketing and Sales, and Probability and Statistics.
- Structured mentoring for seven Graduate Teaching Assistants; two subsequently achieved Associate Fellow (AFHEA) recognition.
- Led DAIM Agentic AI Summer Bootcamp 2026 for visiting students, covering LangGraph, tool calling, RAG, Ollama, Groq and Human-in-the-Loop patterns, with an Amazon fulfilment-centre industrial visit.

SELECTED PUBLISHED OUTPUTS

- Chimezie, O. J. & Mboli, J. S. (2026). Separating the Art from the Algorithm: Detecting Moral Decoupling in Consumer Discourse About Generative AI. Proceedings of Machine Learning Research, 348, 31–41.
- Mboli, J. S. (2025). The role of digital twins in realising circular economy in the era of Industry 4.0 and Industry 5.0. In The Digital Twin Handbook, 213–236. DOI: 10.1049/PBPC071E_ch9.
- Mboli, J. S. et al. (2025). Are Large Language Models Ready for Business Integration? Communications of the IBIMA, Article 121190. DOI: 10.5171/2025.121190.
- Mboli, J. S., Thakker, D. & Mishra, J. L. (2022). An Internet of Things-enabled decision support system for circular economy business model. Software: Practice and Experience, 52(3), 772–787. DOI: 10.1002/spe.2825.

SPEAKING, ENGAGEMENT & EXECUTIVE LEARNING

- Invited keynote, ANSA Conference (Freiburg, Germany, 27 September 2025): “Bridging Continents with Artificial Intelligence: Inclusive Pathways for Education and Work in Africa and Europe.”
- Public outreach on the responsible use of AI for young people with Q-impact; AI for Public Sector Strategy & Operations executive training and consultancy design; Responsible AI community engagement.

QUALIFICATIONS & CONTACT

PhD (University of Bradford, 2023) · MSc (University of Bradford) · MBA (University of the People) · BEng (Electrical & Electronic Engineering).

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Selected professional summary, not a full academic CV. Publisher, institutional and programme links and current publication statuses are listed on jsmboli.github.io/sources.html.