



**ACCRA
TECHNICAL
UNIVERSITY**

2ND ARCATU CONFERENCE 2026

5-Day PRE-CONFERENCE SEMINAR

Theme

**Research Reimagined: Harnessing Artificial
Intelligence, Advanced Analytics And Collaboration
For Research Excellence**



**Mon. 7th – Fri. 11th
September, 2026**



**Venue:
Online**



9:00 am – 3:00 pm Daily



DAY 1 – MONDAY, 7th SEPTEMBER, 2026

The AI-Powered Researcher: Transforming Academic Writing, Research and Scholarly Productivity

Lead Speaker: Dr. Kristine Kraus | **Moderator:** Prof. Nana Yaw Asabere

Time	Programme Activity	Lead / Responsibility
9:00–9:15 am	Opening, Welcome and Introduction of Lead Speaker	Moderator
9:15–10:15 am	AI and the Changing Landscape of Academic Research and Writing	Dr. Kristine Kraus
10:15–10:30 am	Questions and Interactive Discussion	Moderator
10:30–11:15 am	Using AI Across the Research and Academic Writing Process	Dr. Kristine Kraus
11:15 am–12:00 noon	Practical Demonstration: Prompting, Literature Engagement, Academic Writing, Editing and Research Productivity	Dr. Kristine Kraus
12:00–1:00 pm	LUNCH BREAK	
1:00–1:45 pm	Hands-on Workshop: Applying AI to Participants' Own Research and Writing	Dr. Kristine Kraus
1:45–2:30 pm	Academic Integrity, Ethics, Hallucinations, Referencing and Responsible AI Use	Dr. Kristine Kraus
2:30–2:50 pm	Q&A and Participant Reflections	Moderator
2:50–3:00 pm	Key Takeaways and Closing	Moderator



DAY 2 – TUESDAY, 8th SEPTEMBER, 2026

From Data to Discovery: Mastering Research Analytics with R

Lead Speaker: Mr. Jacob Ayembila | **Moderator:** Prof. George Osei Adjei

Time	Programme Activity	Lead / Responsibility
9:00–9:10 am	Opening and Introduction	Moderator
9:10–10:00 am	Getting Started with R: Research Data and the R Environment	Mr. Jacob Ayembila
10:00–10:45 am	Importing, Cleaning and Preparing Research Data	Mr. Jacob Ayembila
10:45–11:30 am	Descriptive Statistics and Data Visualisation	Mr. Jacob Ayembila
11:30 am–12:00 noon	Guided Practical Exercise	Mr. Jacob Ayembila
12:00–1:00 pm	LUNCH BREAK	
1:00–1:45 pm	Inferential Analysis Using R: Testing Relationships and Differences	Mr. Jacob Ayembila
1:45–2:30 pm	Hands-on Data Analysis: Analysing a Research Dataset	Mr. Jacob Ayembila
2:30–2:50 pm	Interpreting and Reporting R Results for Academic Research	Mr. Jacob Ayembila
2:50–3:00 pm	Q&A, Key Takeaways and Closing	Moderator



DAY 3 – WEDNESDAY, 9TH SEPTEMBER, 2026

Beyond Conventional Analysis: Mastering SEM and fsQCA for Advanced Research

Lead Speaker: Prof. Opuni Frimpong | **Moderator:** Prof. Emelia Ohene-Afriyie

Time	Programme Activity	Lead / Responsibility
9:00–9:10 am	Opening and Introduction	Moderator
9:10–9:45 am	Why SEM? Moving Beyond Conventional Regression Analysis	Prof. Opuni Frimpong
9:45–10:30 am	Measurement Models: Reliability, Validity and Model Assessment	Prof. Opuni Frimpong
10:30–11:15 am	Structural Models: Path Analysis, Mediation and Moderation	Prof. Opuni Frimpong
11:15 am–12:00 noon	SEM Practical Demonstration and Interpretation of Output	Prof. Opuni Frimpong
12:00–1:00 pm	LUNCH BREAK	
1:00–1:30 pm	Introduction to fsQCA and Configurational Thinking	Prof. Opuni Frimpong
1:30–2:15 pm	Calibration, Necessity, Truth Tables, Sufficiency and Solution Configurations	Prof. Opuni Frimpong
2:15–2:40 pm	Practical Demonstration: SEM versus fsQCA	Prof. Opuni Frimpong
2:40–2:55 pm	Q&A and Research Applications	Moderator
2:55–3:00 pm	Closing	Moderator



DAY 4 – THURSDAY, 10TH SEPTEMBER, 2026

AI Meets Qualitative Research: From Raw Data to Deeper Insights

Lead Speaker: Dr. David Boison | **Moderator:** Prof. Vivian Biney-Aidoo

Time	Programme Activity	Lead / Responsibility
9:00–9:10 am	Opening and Introduction	Moderator
9:10–9:50 am	AI and the Transformation of Qualitative Research	Dr. David Boison
9:50–10:30 am	Preparing Interviews, Transcripts and Qualitative Data for Analysis	Dr. David Boison
10:30–11:15 am	AI-Assisted Coding, Categorisation and Thematic Analysis	Dr. David Boison
11:15 am–12:00 noon	Live Demonstration: From Raw Transcript to Codes, Categories and Themes	Dr. David Boison
12:00–1:00 pm	LUNCH BREAK	
1:00–1:45 pm	Hands-on Workshop: AI-Assisted Analysis of a Sample Interview	Dr. David Boison
1:45–2:20 pm	Moving from Themes to Interpretation and Academic Reporting	Dr. David Boison
2:20–2:40 pm	Ethics, Confidentiality, Data Protection, Bias and AI Hallucinations	Dr. David Boison
2:40–2:55 pm	Q&A and Participant Reflections	Moderator
2:55–3:00 pm	Closing	Moderator



DAY 5 – FRIDAY, 11TH SEPTEMBER, 2026

Connect, Collaborate and Create: Research Mentoring, Networking and Partnership Development

Lead Speaker: All Resource Persons | **Moderator:** Organising Committee

Time	Programme Activity	Lead / Responsibility
9:00–9:15 am	Orientation and Allocation to Research Clinics	Organising Committee
9:15–10:30 am	Parallel Research Clinics and One-to-One Consultations	Resource Persons
10:30–11:15 am	Manuscript, Data Analysis and Methodology Consultations	Resource Persons
11:15 am–12:00 noon	Research Collaboration and Project Development Meetings	Resource Persons & Participants
12:00–1:00 pm LUNCH & NETWORKING BREAK		
1:00–1:45 pm	Research Networking and Collaboration Matchmaking	Organising Committee
1:45–2:15 pm	Participant Action Plans and Future Collaboration Commitments	Participants
2:15–2:30 pm	Seminar Evaluation and Participant Reflections	Organising Committee
2:30–2:45 pm	Presentation of Certificates	Organisers
2:45–2:55 pm	Closing Remarks	Conference Chair
2:55–3:00 pm	Group Photograph and Official Close	All Participants

