



ALTON V. KESSELY

Educator, Data Analyst, and Research Scientist

An immensely dedicated and committed professional with a strong background as an educator, mathematician, research scientist, and meticulous data analyst, boasting over eight years of valuable experience. Keen to employ well-honed analytical abilities to tackle intricate challenges while delivering strategic leadership and adept management.

EDUCATION

- University of Cape Town
Cape Town, South Africa
Masters in Applied Mathematics
Completed in 2015
- African Institute for Mathematical Science
Stellenbosch University
Cape Town, South Africa
Masters in Mathematical Science
Completed in 2013
- University of Science and Technology of China
Hefei, China
Masters in Astronomy
Completed in 2011
- University of Abuja
Abuja, Nigeria
Bachelor in Physics
Completed in 2007
- Code with Mosh, Udemy, LinkedIn Learning, and SuperdataScience
Certificates in Git, HTML, CSS, JavaScript, React JS, Python, Django and Machine Learning
Completed in 2024

CONTACT

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Monrovia, Liberia

PROFESSIONAL EXPERIENCE

- Instructor of Physics and Mathematics
University of Liberia
February 2024 – Current
Key responsibilities:
 - Teaching Undergraduate Mathematics and Physics courses,
 - Undertaking research projects,
 - Providing academic guidance for students,
 - Carrying out professional activities as specified by the Department of Physics and the Department of Mathematics.
- Deputy Minister for Planning, Research and Development
Ministry of Education-Liberia
February 2018 – January 2024
Key responsibilities:
 - Key responsibilities: Education Funding and Project Development,
 - Clearinghouse for all Education Development activities Planning, Monitoring, and Evaluation of all Education Plans and their implementations,
 - Policy evaluation and appraisals,
 - Education Management Information System including Research, Statistics, and Demographics,
 - Led the Education Sector Development Committee and the Local Education Group.
 - Ensuring Safe and Conducive Learning Environment
- Executive Director
Liberia Institute for Science, Technology, Engineering and Mathematics
March 2017 – February 2018
Key responsibilities:
 - Led the commitment of the Institute to promoting quality STEM education, Research, and Innovation in Liberia,
 - Fostered partnerships with government, non-governmental organizations, private businesses, educational institutions, community leaders, and civil society organizations for the promotion of STEM education and research in Liberia,
 - Promoted, Honed, and enhanced the Skills of Liberians in STEM through mentorship and scholarships,
 - Created a culture of STEM-based research and innovation across schools and institutions across Liberia,
 - Carried out and participated in various STEM-related education and innovative initiatives,

ACHIEVEMENTS

● 2018 – 2023

- Provided great leadership of multi-stakeholders, leading to highly Successful donor engagement and fostering meaningful policy dialogue, leading to a compact with the Global Partnership for Education.
- Raised over USD 300 million in direct donor support for education.
- Provided direct supervision for all of the Ministry of Education projects, including the large portfolio of development partners-supported projects and programs worth over USD 200 million.
- Led the development of Liberia's new Education Sector Plan and education sector analysis.
- The successful digitization of Educational Data collection tools for Liberia.
- Led the successful conduct of the Annual School censuses for 2019–20, 2020–21 and 2021–22.
- Established School Quality Standards.
- The Establishment of a National Literacy and Numeracy Assessment System for Grades 3 and 6.
- Led Liberia's Education response to the Covid-19 pandemic.

● 2017 – 2018

- Successfully launched the Liberia Institute for Science, Technology, Engineering and Mathematics after being dormant since its formation in 2016.

● 2015– 2016

- Carried out disaster risk assessment for Liberia's education sector.
- Developed a workable plan for providing education in emergency
- Worked on a plan for how Science, Technology, Engineering and Mathematics education can be made a priority in Liberia.

- Encouraged, promoted, and facilitated the culture of interdisciplinary research between STEM and non-STEM disciplines,
- Organized seminars, workshops, training, public forums, and debates for the purpose of raising awareness and imparting skills and knowledge of STEM

● Instructor Of Physics and Mathematics University of Liberia

*October 2016 – February 2018,
August 2011–August 2012*

Key responsibilities:

- Taught Undergraduate Mathematics and Physics courses,
- Undertook research projects,
- Provided academic guidance for students
- Carried out professional activities as specified by the Department of Physics and the Department of Mathematics.

● Disaster Risk Analyst and STEM Specialist Ministry of Education–Liberia

June 2015 – October 2016

Key responsibilities:

- Carried out Disaster risk assessments for Liberia's education sector,
- Developed a workable plan of how to provide education in Emergencies,
- Worked on a comprehensive plan of how STEM education can be made a priority in Liberia.

● Physics and Mathematics Teacher Firestone High School Harbel, Liberia

March 2007–July 2007

Key responsibilities:

- Prepared Lesson plans,
- Taught High School Physics and Mathematics,
- Evaluated Students,
- Provided mentorship for students.

● Marketing Officer Based Brothers Inc Lagos, Nigeria

January 2006–January 2007

Key responsibilities:

- Sought Clients for the company's products (Window blinds and furniture) and Persuaded them to buy the company's products,
- Built and nurtured customer relationships through effective communication and engagement.

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TOP SKILLS

● Hard Skills

- Data modeling and reporting
- Data mining and analysis
- Statistics
- Machine and Deep Learning
- Advanced knowledge in Computer Programming (Python, Pandas, JavaScript, Latex, and R)
- Proficiency in the use of Spreadsheets (Excel, Numbers, Calc) for Data Analysis
- Policy formulation and development
- Monitoring and Evaluating
- Report writing skills

● Soft Skills

- Observation
- Decision Making
- Communication
- Multi-tasking
- Strategic leadership
- Good interpersonal
- Team building skills
- Critical thinking