



# 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

### CONTACT

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### PROFESSIONAL EXPERIENCE

- Deputy Minister for Planning, Research and Development  
Ministry of Education-Liberia  
2018 – 2023  
Key responsibilities:
  - Education Funding and Project Development,
  - Clearinghouse for all Education Development activities,
  - Principal Liaison between the Ministry of Education and everyone funding education in Liberia, including the government of Liberia and International donors,
  - Annual Budget preparation and Annual Reports writing for the Ministry of Education,
  - 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.
- Executive Director  
Liberia Institute for Science, Technology, Engineering and Mathematics  
2017 – 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,
  - 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.

## 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.

### ● Instructor Of Physics and Mathematics University of Liberia 2016 – 2018, 2011–2012

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 2015 – 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 2007–2007

Key responsibilities:

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

### ● Marketing Officer Based Brothers Inc Lagos, Nigeria 2006–2007

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.

## 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