JEFFAR JUNIOR OBURU

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PROFESSIONAL SUMMARY

Dynamic and results-driven professional with a Ph.D. in Applied Statistics and a strong background in actuarial science, data analytics, and research. Over a decade of experience in academia, research, consulting, and data-driven decision-making across diverse industries. Adept at designing and implementing innovative analytical methodologies, optimizing data-driven insights, and fostering strategic collaborations. Proven track record in curriculum development, research supervision, risk assessment, and financial modeling. Highly skilled in leveraging statistical tools and data visualization techniques to translate complex data into actionable strategies. A strong communicator, mentor, and problem-solver committed to advancing knowledge, driving efficiency, and delivering impactful solutions in academia, research, and industry.

SKILLS & ABILITIES

Data analysis, statistical modeling, actuarial modeling, risk assessment, financial mathematics, portfolio optimization, predictive modeling, machine learning, research supervision, curriculum development, monitoring and evaluation (M&E), data quality assurance, impact assessment, data visualization, business intelligence, project management, strategic planning, academic writing, peer-reviewed publishing, public speaking, professional presentations, mentorship, interdisciplinary collaboration, problem-solving, bilingual communication (English and Kiswahili).

EXPERIENCE

April, 2021- Present.   **Lecturer/Researcher- Actuarial Science & Applied Statistics, Jaramogi Oginga Odinga University of Science and Technology.**

- Leading the development and implementation of research methodologies.
- Supervising undergraduate research projects, fostering innovation.
- Conducting comprehensive data analysis to support academic research.
- Developing curriculum and learning materials for improved outcomes.
- Delivering lectures and teaching various courses, ensuring students are gaining a comprehensive understanding of the subject matter.
- Engaging in departmental seminars and workshops to share findings.
- Providing mentorship and academic advising to students.
- Coordinating exam supervision and maintaining accurate performance records.
- Contributing to interdisciplinary research projects.

- Engaging with community stakeholders to align research with local priorities.
- Authoring and co-authoring research papers published in peer-reviewed journals.
- Developing and implementing research protocols, ensuring scientific integrity and ethical compliance.

Achievements:
- Successfully developed and refined a research methodology that enhanced data consistency and reliability, contributing to the overall improvement of research outcomes.
- Published 10 research papers in peer-reviewed journals, significantly contributing to the university's research visibility

Jan 2020 - Apr 2021.   **Part-Time Lecturer- Actuarial Science & Applied Statistics, Jaramogi Oginga Odinga University of Science and Technology.**

- Delivered lectures and taught various courses, ensuring students gained a comprehensive understanding of the subject matter.
- Developed curriculum and learning materials for improved educational outcomes.
- Supervised undergraduate research projects, fostering innovation and critical thinking.
- Provided mentorship and academic advising to students, supporting their academic and professional development.
- Conducted comprehensive data analysis to support academic research initiatives.
- Coordinated exam supervision and maintained accurate performance records.
- Authored and co-authored research papers published in peerreviewed journals.

Jan 2020 - Apr 2021   **Monitoring and Evaluation Officer, Department of Planning, Kakamega County Headquarters**
- Led the collection, organization, analysis, and presentation of program data, ensuring accurate and timely reporting on key project indicators.
- Prepared and ensured timely submission of weekly progress reports and deliverables, contributing to the overall project monitoring and evaluation plans.
- Developed and reviewed M&E guidelines, standards, and protocols to ensure alignment with best practices and compliance with project requirements.
- Co-led the training of M&E assistants and data entry clerks, enhancing their skills in data collection, analysis, and reporting.

- Assisted in preparing the project for possible data quality audits, ensuring the validity, integrity, precision, reliability, and timeliness of all performance data.
- Supervised, mentored, and coached temporary seasonal M&E staff, fostering a collaborative and productive work environment.
- Worked closely with various teams to provide routine feedback during project implementation, facilitating data-driven decisions to improve project outcomes.
- Designed, reviewed, and tested M&E tools for reporting formats and data collection, including mobile-based tool..
- Tracked and reported data on all project indicators, prepared monitoring and evaluation plans, and contributed to MEL workplans, annual reports, and other project documents.
- Conducted routine monitoring, program supervision, and support visits to field sites, ensuring adherence to project goals and timelines.
- Communicated regularly with the county and global support teams to report on activity progress and identify areas for programmatic improvements.
- Developed recommendations and enhancement solutions based on findings to address gaps and optimize project performance.
- Coordinated with various teams on data collection and analysis, ensuring comprehensive evaluations and actionable recommendations.

Achievements:

- Enhanced data accuracy by developing and implementing new data collection methodologies.
- Successfully trained and mentored M&E assistants and data entry clerks, improving their data analysis skills.
- Conducted comprehensive data quality audits, ensuring high standards of data validity, integrity, and reliability.
- Provided critical feedback that led to data-driven decisions, improving project outcomes.

May 2017 - Jan 2020   Consultant, Jefftech Consultancy

- Provided expert consultancy in Monitoring, Evaluation, and Learning (MEL) for international development projects, with a focus on public health and malaria prevention initiatives.
- Led the design and implementation of DHIS2-based monitoring frameworks, ensuring alignment with project goals and compliance with international data quality standards.
- Collaborated with project teams to develop and refine key performance indicators (KPIs) specific to health outcomes, and created customized monitoring tools to track these indicators effectively.
- Conducted capacity-building workshops for field staff and data entry teams, enhancing their proficiency in mobile-based data collection, database management, and data quality assessments.
- Analyzed complex health datasets using advanced statistical software (SPSS, Stata, R), providing actionable insights to support data-driven decision-making and strategic planning.
- Spearheaded the development and deployment of mobile data collection tools, improving data accuracy by 25% and reducing the time required for data collection.
- Prepared comprehensive analytical reports and presentations, communicating findings to stakeholders and providing recommendations to optimize project performance and inform policy decisions.

Achievements:
- Successfully enhanced data reliability across multiple projects by 20% through the implementation of rigorous data quality assurance processes.
- Led a project that streamlined survey methodologies, resulting in a 15% reduction in data collection costs while maintaining data integrity.
- Played a pivotal role in a public health project that improved vector control monitoring systems, contributing to more effective malaria prevention efforts in high-risk regions.

Jun 2016 - Feb 2017   Assistant Underwriter, The Monarch Insurance Company Limited

- Assessed risks and examined insurance proposals.
- Analyzed statistical data to determine premiums and terms.
- Negotiated insurance terms with brokers and clients.
- Monitored claims and adjusted policies as necessary.
- Liaised with brokers and customers for satisfaction.
- Supported development of new insurance products.
- Conducted background research for underwriting decisions.
- Provided administrative support to the underwriting team.

Achievements:

- Reduced underwriting risk by implementing a new risk assessment model, resulting in a 15% decrease in claims.

Feb 2016 – Jun 2016 **Data Analyst, Kenya Forestry Research Institute**

- Utilized advanced computerized models for data extraction.
- Conducted quality assessments of data.
- Performed comprehensive data analysis for research findings.
- Collaborated with teams to improve data collection methods.
- Supported implementation of new data analysis tools.
- Prepared detailed reports based on data analysis.
- Presented findings to management and stakeholders.
- Contributed to development of data-driven research initiatives.

Achievements:

- Enhanced data collection methods that improved data accuracy by 25%

Apr 2012 – Aug 2014 **Marketing Agent, Neo Market Agency**

- Developed effective marketing messages and collateral.
- Established partnerships with local businesses for promotions.
- Conducted market research to inform strategies.
- Managed client relationships and ensured satisfaction.
- Analyzed campaign performance and provided insights.
- Supported digital marketing and social media campaigns.
- Created solutions-oriented campaign themes.
- Coordinated marketing activities to achieve objectives.

Achievements:

- Increased client acquisition by 20% through targeted marketing campaigns.

EDUCATION

Nov 2024 – Date. **Postgraduate Diploma in Certified Financial Analyst (CFA)**
Strathmore University

Oct 2020 – October 2024 **Doctor of Philosophy in Applied Statistics**

Jaramogi Oginga Odinga University of Science and Technology

Completed extensive research and advanced coursework in

statistical methodologies and their applications, with a strong focus on data analysis and evidence-based policy formulation.

Feb 2017 – Dec 2019.   **Master of Science in Actuarial Science**

Maseno University

Gained deep expertise in risk assessment, financial modeling, and actuarial principles, with significant exposure to real-world applications through industry collaborations.

Aug 2012 – Dec 2016   **Bachelor of Science in Mathematical Sciences with Information Technology.**

Maseno University

Developed a solid foundation in mathematical theories and practices, with practical experience in problem-solving and analytical techniques across various mathematical disciplines.

Feb 2008- Nov 2011   **Kenya Certificate Of Secondary Education (KCSE)** Wikoteng Secondary School

Jan 2000 - Nov 2007   **Kenya Certificate Of Primary Education** Olympic Primary School

PROFESSIONAL BODY

Jul 2024 - Date   **Certified Financial Analyst (CFA)** Strathmore University

WORKSHOPS AND SEMINARS

20th -24th February, 2025	Facilitator: Understanding AI's Impact on Policy Making, Senate Research Services (SRS)
6th-7th Jun, 2024	Global Cybershield Conference 2024 , Daystar University
19th-20th, Jan 2022	2nd Postgraduate Conference, University of Eldoret
24th-25th, Mar 2022	5th Annual Virtual International Conference, Kirinyaga University
30th - 4th, Oct 2019	AIMS Ghana Probability, Analysis and Applications Workshop, Accra, Ghana.
5th - 9th Aug, 2019	Improving 1st Year Mathematics and Statistics Courses using Digital Technology, Maseno University
6th -7th June, 2019	Research Capacity Building Conference, Maseno University

25th-26th Feb, 2018 Annual Actuarial Bootcamp, Maseno University
20th-21st Feb, 2016 Annual Actuarial Bootcamp, Maseno University

PUBLICATIONS

- JEFFAR J OBURU, JOSHUA WERE, BRIAN ODUOR. Portfolio Optimization for Extended (P,Q)-Binomial Cox-Ross-Rubinstein Model. SSAR Journal of Multidisciplinary Studies.

- JEFFAR J. OBURU, R. SIMWA, N.B. OKELO (2020). Survival Analysis in Estimation of Attrition Rates Among Policyholders in Jubilee and UAP Insurance Companies, International Journal of Modern Computation, Information and Communication Technology, pp. 48-55.

- N. B. OKELO AND J. OBURU. On Monopole Bundle Systems of Complex Hypermanifolds for Composition Operators, (2022), 1-10. https://arxiv.org/abs/2202.04440

- N. B. OKELO AND J. OBURU. Norm-Attainable Operators on Involutive Stereotype Tubes with Algebraically Connected Component of the Identity, (2022), 1-7. https://arxiv.org/abs/4171095

- OKELO, BENARD, FRANCIS ODHIAMBO, AND JEFFAR OBURU. "On Sharp Estimates of Coefficients for Polynomials in Norm-Attainable Classes." *Pan-American Journal of Mathematics* 1 (2022): 1.

- JEFFAR J. OBURU AND R.SIMWA. Localized AI-Driven Remote Monitoring and Predictive Analytics to Enhance Maternal Health in Rural Kenya: Bridging Accessibility and High-Risk Pregnancy Management. June 2024.

- JEFFAR J. OBURU AND R.SIMWA. Estimation of Attrition Rates Through Survival Analysis of Financial Institutions in Kenya, GSJ: Volume 8, Issue 3, March 2020, Online: ISSN 2320-9186

- JEFFAR J OBURU, JOSHUA WERE, BRIAN ODUOR. On (P,Q)-Binomial Extension of CoxRoss-Rubinstein Model in Skorohod Spaces. Vol. 16, No. 4, December 2023.

REFEREES

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