JOEL DUAH

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OBJECTIVE

I am an intrinsically driven, reliable, efficient and result oriented individual, as I am in a collective setting. I am eager to learn and acquire new skills and methods in solving research problems that will ultimately enhance my goal of adding value to my person and attaining institutional and personal objectives.

EXPERIENCE

DATA ANALYST

Nacasky Company Limited, Accra (August 2022- till date)

- Monitor air quality sensors and identify which sensors are faulty or producing inaccurate readings
- Collect data from sensors by writing prompts that communicate directly with the API
- Analyze data to identify trends, patterns and potential issues related to air pollution using R programming language and Power BI.
- Create advanced analytics dashboards in Shiny and Power BI to be embedded in the Ghana Online Continuous Emissions Monitoring Systems (GOCEMS) platform.
- Assess air quality data against the Ghana EPA standards and reporting violations to superiors.
- Prepare reports summarizing air quality data, trends and findings to be submitted to the Environmental Protection Agency and other stakeholders.

JUNIOR RESEARCHER

Violence Research Center, University of Cambridge (April 2023; December 2023)

- Collected 5 minutes speech sample data via telephone calls for the 3rd wave of the Evidence for Better Lives Study (EBLS).
- Transcribe and translate (from source language into English) EBLS speech samples.
- Coded and analyzed EBLS data using thematic analytical techniques

RESEARCH ASSISTANT

Ghana Centre for Suicide and Violence Research (September 2023; April 2023)

- Collected qualitative data via face-to-face and telephone calls.
- Transcribed interviews and developed themes for PIs.

RESEARCH ASSISTANT

Ronald F. Inglehart Laboratory for Comparative Social Research (September 2021; December 2021)

- Analyzed statistical data on Gender role attitudes (GRA) using R, Python and Excel.
- Identified GRA trends in cross-country data with strong analysis and data visualization skills.
- Employed hierarchical models and logistic regression techniques to analyze cross- country datasets.
- Worked closely with internal and external supervisors, ensuring high engagements in research and evaluation activities.
- Presented research findings at conferences with confident public speaking.

TEACHING & RESEARCH ASSISTANT (NATIONAL SERVICE)

University of Ghana Department of Sociology (September 2019; August 2020)

- Prepared and delivered tutorials on diverse topics related to sociology
- Tutored students struggling with material, improving understanding and academic performance
- Attended seminars and conferences to gain more insight in my field
- Took minutes and reports during research seminars and conferences.
- Assisted with data collection, data entry and data analysis.

EDUCATION

MA. COMPARATIVE SOCIAL RESEARCH

National Research University Higher School of Economics, Moscow-Russia (2020 – 2022)

- GPA- 7.88/10
- Courses: Digital finance, Social network analysis, Categorical data analysis, Structural equation modeling, Measurement theory and questionnaire design, Introduction to data science in Python, Multilevel regression analysis, Interrupted time-series analysis etc.

BA. RUSSIAN AND SOCIOLOGY

University of Ghana, Accra - Ghana (2014-2019)

- GPA- 3.33/4
- Courses: Business Russian, Comparative Russian Politics, Translation, Social Structure of Modern Ghana, Theories of Social Development, Industrial sociology, Quantitative research

methodology.

B1 CERTIFICATE. RUSSIAN AS A FOREIGN LANGUAGE

Belgorod State Technological State University, Belgorod-Russia (2017-2018)

- Courses: Russian language, Russian literature, Social studies, History of Russia, Musical phonetics

CONFERENCES

- Air Sensors International Community - USA Conference. (2024)

- Air Sensors International Community - Ghana Conference. (2023)

- International Workshop "Recent Advances in Comparative Study of Values (LCSR, 20 XXII April International Academic Conference on Economic and Social Development, 2021)

- 4th annual Ghana Sociological and Anthropological Association (GSAA, 2019)

- 3rd School of Languages Conference SOLCON III (UG, 2019)

SKILLS

- Web applications and analytical dashboards development

- Programming Languages: Python, R, Shiny, MySQL, HTML, CSS

- Quantitative research designs and Advanced statistical analyses

- Data Visualization Tools: Power BI, Excel

- Excellent writing skills/storytelling/reporting in Quarto and R Markdown

- Good oral and written communication

- Strategic thinking

AWARDS AND CERTIFICATES

CERTIFICATE OF PARTICIPATION (VIDEO SURVEILLANCE ANALYST)

13th All African Games, Accra, Ghana (2024)

CERTIFICATE IN AIR QUALITY MANAGEMENT AND SCIENCE TRAINING

University of Ghana with support from the U.S. Department of State and Columbia University

(2024)

MERIT-BASED RUSSIAN GOVERNMENT AND HSE SCHOLARSHIP

Towards a Master's degree in Comparative Social Research (2020 – 2022)

INTRODUCTION TO STRUCTURED QUERY LANGUAGE (SQL)

University of Michigan (Coursera certificate) (2022)

INTRODUCTION TO DATA SCIENCE IN PYTHON

University of Michigan (Coursera certificate) (2022)

1st PLACE, RUSSIAN LANGUAGE AND CULTURE COMPETITION FOR INTERNATIONAL STUDENTS

Belgorod State Technological University, Russia (2018)

2nd PLACE, RUSSIAN LANGUAGE ESSAY AND COMPETITION ON THE TOPIC "TERRORISM: A CONTEMPORARY GLOBAL ISSUE"

Belgorod State Technological University, Russia (2018)

3rd PLACE, RUSSIAN HISTORY COMPETITION FOR INTERNATIONAL STUDENTS

Belgorod State Technological University, Russia (2018)

VOLUNTEERING

- R tutor, Cyberhub, East-Legon Worship Center (2022 – till date)

- Analyst, External Affairs Committee, HSE Student Council (2021 – 2022)

- Advocate, Ministry to Persons Living with Disability, East-Legon Worship Center (2019 – till date)

- Data Collection Specialist, Ghana Statistical Service (2021)

- Verification Officer, Electoral Commission of Ghana (2020)

- Peer Partner, International Programmes Office, University of Ghana (2018 – 2019)

LEADERSHIP

Student Council Member (External Affairs Committee)

National Research University Higher School of Economics (2020-2021)

Russian Class President

Department of Modern Languages, University of Ghana (2018-2019)

LANGUAGE PROFICIENCIES

- English *****

- Akan *****

- Russian *****

REFERENCES

Mohammed Adams
Principal Data Analyst
Nacasky Company Limited, Accra.
moadams8479@gmail.com

Joseph Osafo
Executive Director of Centre for Suicide and Violence Research-GhanaProfessor
of Clinical/Health Psychology
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