

# Conrad Katlego Mogane

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**Summary** — I am an experienced Data Administrator and Laboratory Technologist with expertise in data management, clinical research, and laboratory diagnostics. Skilled in REDCap, LIMS, SQL Server, and laboratory techniques such as PBMC isolation, DNA extraction, and ELISpot. Proven ability to ensure data integrity, quality control, and compliance with GCLP/GCP standards. Strong background in research support, protocol implementation, and training across institutions like University of KwaZulu-Natal, MRC/Wits Agincourt, and Wits University. Passionate about scientific research, data-driven decision-making, advancing clinical and laboratory best practices end to end.

## Skills

<b>Biostatistics</b> Analytics and Visualisation	<b>Clinical trials</b> Research Acumen
<b>Data Analysis</b> Python, Bash, R, Excel, PowerBI	<b>Data Management</b> Full Data Lifecycle
<b>GCLP and GLP</b> Ethics	<b>Biomedical Research</b> Laboratory Operations

## Experience

**University of Kwa-Zulu Natal, South Africa**  
**Laboratory Technologist — Data Administrator**

**Apr 2019 –**

### Laboratory Technologist Responsibilities :

- Conduct PBMC Isolation, ELISpot, DNA Extraction, Western Blot, Mucosal Processing, and Specimen Reception.
- Prepare reagents and catalog specimens at various storage temperatures.
- Perform daily quality control and assurance on equipment and assay methodologies.
- Act as the study representative for active research projects and maintain study integrity.
- Engage in professional development activities such as Journal Club, research updates, laboratory meetings, and training sessions.
- Assist in training colleagues and students in laboratory procedures and protocols.
- Implement study protocol amendments as directed by the Principal Investigator or Study Coordinator.
- Document protocol deviations and contribute to the analytical study plan.
- Monitor and report monthly recruitment, enrollment, and assay performance statistics.
- Support laboratory maintenance, including tracking reagents and consumable inventory.
- Ensure laboratory equipment is calibrated and cleaned according to required standards.

### Data Administrator Responsibilities :

- Maintain master data, perform weekly backups, and address user requests.
- Extract, analyze and report study-related data to stakeholders and management.
- Add and update participant and study information in the LIMS system.
- Ensure that all study-related data across various systems remains accurate and current.
- Manage access control for laboratory users.
- Assist research teams, laboratory staff, and management with accessing study information remotely via the LIMS system. Before processing, verify that participant names and locations on laboratory request forms are accurate.
- Update and correct the comment fields on the MSSQL server as necessary.
- Configure tests and related data requirements within the LIMS system.

**MRC/Wits Health Consortium, Johannesburg, South Africa**  
**Clinical Laboratory Scientist**

**Jun 2018 – Mar 2019**

- Determines normal and abnormal components of body fluids by conducting chemical analyses of blood, urine, and other biological fluids. Analyze samples using various techniques and procedures.
- Ensuring operation of laboratory equipment by calibrating; completing preventive maintenance requirements, following manufacturer's instructions, troubleshooting malfunctions, calling for repairs, maintaining equipment inventories, and evaluating new equipment and techniques.
- Maintain laboratory supplies inventory; anticipating needed supplies; placing and expediting orders; verifying receipt of supplies.
- Prepare reports of technological, diagnostic and various scientific findings by collecting, analyzing, and summarizing information from field-collected samples.
- Maintain inter- and intradepartmental workflow by fostering a spirit of cooperation through communication and problem-solving of most clinical issues

- Maintain a safe and clean working environment by complying with procedures, rules, and regulations.
- Protect patients and employees by adhering to infection-control and hazardous waste policies and protocols
- Comply with Good Clinical Laboratory Practice (GCLP), Good Clinical Practice (GCP), Protocol requirements, and Standard Operating Procedures (SOPs) in all lab duties, processes/activities.
- Perform and document all lab tests as per GCLP, SOPs, and protocol requirements under the supervision of a Clinical technologist/Scientist.
- Perform all internal storage using the Laboratory Data Management System (LDMS) system if required

#### **The University of Witwatersrand Faculty of Health Science**

**Jan 2017 – Apr 2018**

##### **Clinical Research and Teaching Assistant**

- Clinical Research: Design, execute, and record laboratory experiments while adhering to standard scientific protocols. Continuously research and improve existing methods while evaluating innovative techniques.
- Experimental Design: Plan and conduct experiments, ensuring accurate data collection and documentation according to research protocols.
- Scientific publications: Draft, write, and edit scientific reports, journal articles, and abstracts. Present research findings at local, national, and international scientific conferences.
- Teamwork and Training: Train and supervise undergraduate and postgraduate students, fostering a collaborative research environment. Actively participate in laboratory meetings, presentations, and publications.
- Knowledge Sharing: Present research findings and laboratory work at journal clubs, seminars, and other scientific discussions.
- Work Ethic and Initiative: Demonstrate punctuality, the ability to work independently, and a proactive approach to research tasks.
- Financial Management: Assist in budget preparation, track expenditures, prepare capital expenditure requests, and ensure accurate financial documentation for research projects.

#### **The Department of Science and Technology, South Africa**

**Feb 2016 – Dec 2016**

##### **Science Communicator**

###### Events Coordination and Community Outreach in S.T.E.M

- Conducted public presentations on various science topics to inspire high school pupils to pursue science careers.
- Assisted in organizing science events such as Sky Viewing, South African National Science Week, DST Science on the Street, and Sasol Techno X.
- Coordinated pupil interaction at national career exhibitions for NRF and Department of Science and Technology South Africa.
- Maintained chemical and biology laboratories at Orville Observatory, including constructing, maintaining, and operating standard laboratory equipment, ensuring strict safety procedures.
- Demonstrated laboratory tests to educators and pupils, ensuring reliable and precise data for scientific investigations and school science exhibitions.
- Captured data and took minutes during monthly staff meetings.
- Operated the switchboard at the local office in Johannesburg Observatory.
- Assisted in processing financial claims for NRF—SAASTA stakeholders and organized records for future audits.
- Booked flights, accommodation, and car hires for NRF staff and stakeholders for science awareness events and campaigns.

## **Education**

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#### **University of KwaZulu Natal**

*Masters in Public Health*

*Epidermiology ; Biostatistics*

#### **University of Zululand**

*Bsc Honors in Biochemistry*

*Techniques in Molecular Biology ; Advanced General Biochemistry*

*Research Methodology*

#### **Certifications**

- Data Science - Data Science Techniques in Bioinformatics

## Publications

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C=Conference, J=Journal

- [J.4] Conrad Mogane, et al. (2022). **Measurement of kidney function in Malawi, South Africa, and Uganda: a multicentre cohort study.** *The Lancet Global Health*, Vol. 10, Issue 8, pp. 1159-1169. doi: 10.1016/S2214-109X(22)00239-X
- [J.3] Lebogang Mokotedi, Aletta ME Millen, Conrad Mogane, Monica Gomes, Angela J Woodiwiss, Gavin R Norton, Frederic S Michel. (2020). **Associations of inflammatory markers with impaired left ventricular diastolic and systolic function in collagen-induced arthritis.** *European Journal of Pharmacology*, Vol. 15, Issue 3, DOI: 10.1371/journal.pone.0230657
- [J.2] Conrad Mogane, Lebogang P Mokotedi, Aletta ME Millen, Frederic S Michel. (2019). **Increased systolic blood pressure associated with hypertriglyceridemia in female Sprague-Dawley rats.** *Canadian Journal of Physiology and Pharmacology*, Vol. 97, Issue 10, pp. 971-979. DOI: 10.1139/cjpp-2019-0121
- [J.1] L Mokotedi, FS Michel, C Mogane, PH Dessein, AM Millen. (2018). **THU0082 Impaired left ventricular relaxation and its association with inflammatory markers in collagen-induced arthritis.** *Journal Name*, Vol. 77, pp. 263-264. DOI:10.1136/annrheumdis-2018-eular.5313

## References

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