

CURRICULUM VITAE

NAME: Nkosinothando Chamane ID NO.: 8904171025088 GENDER: Female	POSITION TITLE: Forensic Scientist: Chemistry section, Forensic Science Laboratory (PhD)
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EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE	YEAR	FIELD OF STUDY
University of KwaZulu-Natal, SA	BSc	2007-2010	Chemistry
University of KwaZulu-Natal, SA	Post Grad Certificate	2011	Science and Mathematics Education
University of KwaZulu-Natal, SA	BEd Hons	2012-2013	Science and Mathematics Education
University of KwaZulu-Natal, SA	MEd	2015-2017	Science Education
University of KwaZulu-Natal, SA	PhD	2018-2021	Public Health Medicine

Work Experience

1. February 2024- Date: Senior Researcher, South Africa Brics Youth Association

Duties and Responsibilities

- Development of concept notes, research proposals and research tools
- Conducting of policy related research and publishing of Policy briefs
- Present research papers at conferences and Seminars
- Report Writing and Review of junior researcher reports
- Facilitate discussions and workshops to promote adoption and implementation of research recommendations
- Lead junior researchers in Action-focused programs to translate research findings into actionable recommendations for various stakeholders
- Participate in the planning of BRICS+ youth events to provide research support and evaluate programs
- Supervise and Mentor junior researchers in the Publication of research papers and Policy Briefs

2. April 2013- June 2024: Forensic Analyst, Forensic Science Laboratory, Chemistry Section

Duties and Responsibilities

- Perform analysis of exhibit material for scientific identification of illegal substances
- Operation of Gas Chromatography and Mass spectroscopy (GC-MS): Sequence creation, Loading of samples and Interpretation of results
- Operation of Fourier transformer Infra-red Spectroscopy: Analysis of exhibit material and interpretation of results.
- Report writing, report review and docket compilation
- Consultation with relevant stakeholders and provision of expert testimony in court
- Participate in quality document reviews to ensure compliance to ISO 17025 and ISO 9001
- Participate in Forensic Awareness programs as a presenter and exhibitor
- Coaching and Mentorship of newly appointed Forensic Analysts

3. April 2012- March 2013: Research and Development Intern at Bio-processing, Technology Innovation Agency

Duties and Responsibilities

- Daily monitoring of the water purification system parameters, which include pH and total dissolved solids
- Daily mass balance verification at five points
- High Performance Liquid Chromatograph operation : Method development and validation, create sequences, program samples for different projects, and troubleshooting when necessary
- Gas Chromatograph operation: Method development and validation, create sequences, program samples for different projects, and troubleshooting when necessary
- Yellow Springs Instruments sugar analyzer operation: Prepare buffer solutions, develop methods and calibrate the instrument
- Fluorescence and UV/VIS Spectrophotometer operation: Perform Calibration and absorbance measurements
- Organic solvent recovery through aloe waste distillation
- Compile method validation reports and assignment notes for Ethanol, Methanol, Ammonia and Nitrate analysis

4. February 2011- November 2011: Practical demonstrator for first year Chemistry Students, School of Chemistry, University of KwaZulu-Natal

Duties and Responsibilities

- Supervise first year chemistry students during practical Experiments and tests
- Mark scripts and submit results to the supervising professor

5. February 2012- March 2012: Educator, GET and FET Phase, Underberg Academy.

Duties and Responsibilities

- Prepare lessons and teach learners from grade 8 to 11: Physical Science, Mathematics and IsiZulu
- Participate in School meetings and document review sessions

Honours and Leadership Accomplishments

- 2013: Fame Lab South Africa, Regional finalist: Certificate of Achievement
- 2011: University of KwaZulu-Natal, School of Chemistry, letter of recognition for professional conduct and providing a conducive environment for students to excel
- 2010: University of KwaZulu-Natal, Mentor and Orientation Facilitator
- 2006: Ixopo high school, school and hostel prefect

Publications

1. Chamane, N., Kuupiel, D., & Mashamba-Thompson, T. P. (2019). Experiential learning for primary healthcare workers in low-and middle-income countries: a scoping review protocol. *Systematic reviews*, 8(1), 123. <https://doi.org/10.1186/s13643-019-1040-6>
2. Chamane, N., Kuupiel, D., & Mashamba-Thompson, T. P. (2019). Mapping Evidence of Experiential learning for Primary Health Care Workers in Low-and-Middle-Income Countries: A Scoping Review. *Global Journal of Health Science*, 11(12). <http://www.ccsenet.org/journal/index.php/gjhs/issue/view/0/2186>
3. Chamane, N. & Mashamba-Thompson, T. P. 2019. Experiential Learning Curriculum Delivery Approach for Quality Improvement in Resource Limited Settings: Mobile Learning for Point-of-Care Technologies. *Global Journal of Health Science*, 11(13). <http://www.ccsenet.org/journal/index.php/gjhs/issue/view/0/2210>
4. Chamane, N., Kuupiel, D., & Mashamba-Thompson, T. P. (2020). Stakeholders' Perspectives for the Development of a Point-of-Care Diagnostics Curriculum in Rural Primary health Clinics in South Africa—Nominal Group Technique. *Diagnostics*, 10(4), 195. <https://www.mdpi.com/2075-4418/10/4/195>
5. Chamane, N., Thompson, R., Goldstone, S., & Mashamba-Thompson, T.P. (2021). Designing and Piloting of a Mobile Learning Curriculum for Quality Point-of-Care Diagnostics Services in Rural clinics of KwaZulu-Natal, South Africa. [Frontiers | Designing and Piloting of a Mobile Learning Curriculum for Quality Point-Of-Care Diagnostics Services in Rural Clinics of KwaZulu-Natal, South Africa \(frontiersin.org\)](https://www.frontiersin.org/articles/10.3389/fpubh.2021.712341/full)
6. Chamane N, Ebenezer Ogunsakin R, Mashamba-Thompson TP. The effect of a mobile-learning curriculum on improving compliance to quality management guidelines for HIV rapid testing services in rural primary healthcare clinics, KwaZulu-Natal, South Africa: a quasi-experimental study. *BMC Health Serv Res*. 2022 May 9;22(1):624. doi: 10.1186/s12913-022-07978-4. PMID: 35534859; PMCID: PMC9081963.

CITATION INDEX

Source	Number of Publications	Total Citations	h-index	i10-index
Google Scholar	7	23	3	1
Web of Science	6	22	2	1
Scopus	6	20	3	1

Conference Presentations and Attendance

- Chamane N.C. Exploring the potential of linking BRICS+ events with tourism agencies towards sustainable job creation in BRICS+ countries: A Scoping review. 3rd BRICS Research Conference, 25-27 September 2024, Beijing, China.
- **Chamane N.C.** The international AIDS Society 2021. 11th IAS Conference on HIV Science, held virtually from 18- 21 July 2021.
- **Chamane N.C and Kolobe M.L.** Exploring the “how” and the “What” of Physical Science pre-service teachers learning processes: An explanatory study on the acceptability of the self-regulated learning theory as a promoter of conceptual understanding and quality education. SAARMSTE 26TH Annual Conference, 16-19 January 2018, Gaborone, Botswana.
- **Chamane N.C. and Ndevu T.T.** The Dilemma of Cannabis. Forensic Conference, 10-14 February 2014 in Pretoria, South Africa.

Community Service

- 2025: BRICS 3rd Youth Innovation Summit, Waste to Wealth theme Adjudicator
- 2024: BRICS 2nd Youth Innovation Summit, Health Tech and Biotechnology theme Adjudicator
- 2021-Date: Review journal articles to contribute to their quality towards publication in SpringerNature
- 2018-2020: Volunteer in the Mormon Helping hands project
- 2014-Date: Participate in drug abuse awareness programs and Career Expos

References

NAME	POSITION	ROLE	CONTACTS
Dr T.L Mabinane	Director :Research and Development (SABYA)	Supervisor	081 338 151 mabinanelt@gmail.com
Captain T. Arbee	Supervisor at the Forensic Science Laboratory	Supervisor	031 918 7023 dawuwan@saps.gov.za
Prof T.P. Mashamba-Thompson	Deputy Dean: Research and Postgraduate Studies (UP)	Supervisor	012 319 2102 tivani.mashamba-thompson@up.ac.za
Prof R. Robinson	Dean: School of Chemistry (UKZN)	Supervisor	033 260 6363 robinsonR@ukzn.ac.za
Dr S S. Mdanda	Chemistry Lecture (WITS)	Mentor (R&D)	082 467 2827 sipho.mdandah7@gmail.com
Dr C.Z Madlabana-Luthuli	Industrial Psychology lecture and academic coordinator	Research Associate	0312608389/ 0717559283 madlabana@ukzn.ac.za

Declaration:

I Declare that the information supplied by me on this curriculum Vitae is in all respects true and correct.



Dr N Chamane

Date 2025-05-20