

SEFATER GBASHI

Date/Place of Birth: 18th January 1987 (Makurdi)
Gender: Male
Nationality: Nigeria
Marital Status: Married
Residential Address: 29 Dawe Street, Troyeville, Johannesburg, South Africa
Phone Number: (+27) 620402580
E-mail Address: sefatergbashi@gmail.com
ORCID: <http://orcid.org/0000-0001-7869-0484>
Google Scholar ID: <https://scholar.google.co.za/citations?user=Mohe4lwAAAAJ&hl=en>
Citations: 469
h-index: 11

ACADEMIC QUALIFICATIONS OBTAINED WITH DATES

Qualification/ Discipline	Awarding institution/ School attended	Year attended	Status
University postgraduate education			
Doctor of Technology in Food Technology (PhD)	University of Johannesburg, South Africa	08/2016 – 10/2019	Completed
Master of Technology in Food Technology	University of Johannesburg, South Africa	08/2014 – 09/2016	Completed
University undergraduate education			
Bachelor of Science (Hons) in Food Science and Technology	Federal University of Agriculture, Makurdi, Nigeria	11/2005 – 07/2011	Completed
Secondary school education			
West African Examination Council (WAEC)	Government College Katsina-Ala, Nigeria	09/1999 – 08/2005	Completed
Primary school education			
Primary School Leaving Certificate	College Practicing School, Katsina-Ala, Nigeria	09/1994 – 07/1999	Completed

PhD THESIS

Title: Development, chemometric-assisted optimization and in-house validation of a modified pressurized hot water extraction (PHWE) method for multi-mycotoxin analysis
Supervisors: Prof. P. B. Njobeh
Prof. Sarah De Saeger
Dr. Ntakadzeni Edwin Madala
Dr. Marthe De Boevre

MASTERS THESIS

Title: Pressurized hot water extraction (PHWE) and chemometric fingerprinting of phytochemicals from *Bidens pilosa*
Supervisors: Prof. P. B. Njobeh
Prof. P. A. Steenkamp
Dr. Ntakadzeni Edwin Madala

HONOURS DISSERTATION

Title: Effect of natural fermentation on the proximate composition and anti-nutritional properties of Bambara nut (*Voadezia subterranean*)
Supervisors: Prof. M. A. Igyor

SHORT COURSES/ TRAININGS WITH DATES

Certificate	Title	Awarding organization	Year obtained	Grade
Certificate of Achievement	Project Management for Development	IDBX (Inter-American Development Bank Online)	2019	Passed (98%)
Certificate of Course Completion	Scientific Writing and Publishing Certificate	Nature (Springer Online)	2019	Passed (84%)
Certificate of Achievement	Humanitarian Response to Conflict and Disaster	HarvardX (Harvard University)	2019	Passed (94%)
Certificate of Service	Development Knowledge Facilitator	Millennium Development Goals (MDGs) Advocacy Programme, Nigeria	2012	NA

WORK EXPERIENCE

University Academic Work Experience

Employer	Capacity/Job Description	Duration
University of Johannesburg, South Africa	<p>Job title: <i>Postdoctoral Research Fellow</i></p> <p>Duties/tasks:</p> <ul style="list-style-type: none"> • <i>Conduct research in food science.</i> • <i>Write and publish academic manuscripts. Improve student's manuscript writing skills and mentor postgraduate students on how to respond to reviewers' comments on their manuscript.</i> • <i>Deliver presentations at conferences (national/international).</i> • <i>Supervise undergraduate and postgraduate student research projects. Mentor students on how to carry out qualitative research with the overall aim of contributing to knowledge.</i> • <i>Operate and maintain the gas chromatography high-resolution time-of-flight mass spectrometer (GC-HRTOF-MS).</i> • <i>Train students on the operation and data analysis from the GC-MS.</i> 	04/2020 – date
University of Johannesburg, South Africa	<p>Job title: <i>Lecturer (temporary)</i></p> <p>Duties/tasks:</p> <ul style="list-style-type: none"> • <i>Lecture food engineering related modules in the department.</i> • <i>Prepare and develop teaching and learning materials. Maintain records to monitor student progress, achievements, and attendance.</i> • <i>Set exam questions. Administer and mark exams and other assessments.</i> • <i>Supervise or assist with supervision of student research projects.</i> • <i>Participate in departmental community development activities.</i> • <i>Participate in staff training activities.</i> 	02/2020 – date
University of Johannesburg, South Africa	<p>Job title: <i>Instrument Specialist (temporary)</i></p> <p>Duties/tasks:</p> <ul style="list-style-type: none"> • <i>Operation and maintenance of the LC-MS/MS.</i> • <i>Operation and maintenance of the GC-HRTOF-MS.</i> • <i>Operation and maintenance of the HPLC-FL/PDA.</i> • <i>Development and validation of analytical methods.</i> • <i>Chromatographic data processing and interpretation.</i> 	01/2014 – date

University of Mkar, Gboko, Nigeria	<ul style="list-style-type: none"> • <i>Preparation of various laboratory reagents and standards, carrying out various laboratory analytical assays.</i> • <i>Training students and visiting researchers on the operation the GC-HRTOF-MS, LC-MS/MS and HPLC-FL/PDA.</i> • <i>Keeping and updating of equipment usage log and keep and inventory of equipment consumables. Routine testing and calibration of equipment.</i> 	01/2013 to 01/2017
	Job title: <i>Graduate Assistant</i> Duties/tasks: <ul style="list-style-type: none"> • <i>Lecture Food Science and Technology related modules. Modules taught included Food Chemistry, Principles of Human Nutrition, Food Microbiology, Food Machinery, Workshop Practice and Engineering Drawing.</i> • <i>Prepare and develop teaching and learning materials. Maintaining records to monitor student progress, achievements, and attendance.</i> • <i>Participate in the development, administration and marking of exams and other assessments.</i> • <i>Conduct research in food science and technology.</i> • <i>Served as the departmental seminar coordinator.</i> • <i>Participate in departmental community development activities.</i> • <i>Participate in staff training activities.</i> 	
Christian Embassy International, Akure, Nigeria	Job title: <i>Administrative Assistant</i> Duties/tasks: <ul style="list-style-type: none"> • <i>Collect, sort and file mails.</i> • <i>Send invitations.</i> • <i>Prepare monthly income statements.</i> • <i>Issue receipts and invoices.</i> • <i>Participate in humanitarian activities of the organization.</i> 	11/2011 to 11/2012
WaterFirst Rehoboth Limited, Makurdi, Nigeria	Job title: <i>Intern</i> Duties/tasks: <ul style="list-style-type: none"> • <i>Produce and package pure bottled and sachet water. Perform quality assessment of the purified water.</i> 	11/2009 to 12/2009
MIDAG Vegetable Oil Company, Makurdi, Nigeria	Job title: <i>Intern</i> Duties/tasks: <ul style="list-style-type: none"> • <i>Participate in the production and quality assessment of soybean oil.</i> 	08/2009 to 10/2009

STUDENT SUPERVISION EXPERIENCE

Name of student	Degree	Title of project	Year
Patience Awafong	Doctoral	Synthesis and characterization of a novel cyclodextrin-based nano adjuvant for limiting food-borne bacteriotoxin exposure, using <i>in vitro</i> gastrointestinal models	In progress
Tintswalo Lindi Maselesele	Masters	Optimization of a low alcoholic bitter gourd grape wine and investigation of its physico-chemical and sensory characteristics	In progress

Siyacela Dlamini	Bachelors	Flavor perception in sodium reduced ready to extruded savory maize snack	2019
Nontuthuzelo Sambo	Bachelors	Mycotoxins and their implications in the safety of canned meat products	2019
Emmanuel Ofentse Lekoma	Bachelors	Nutritional and microbiological profile of Bogobe ba ting	2018

SCHOLARSHIPS/AWARDS

Name of Award	Awarding institution/organization	Place (country)	Month/Year
Innovation Postdoctoral Fellowship 2022	National Research Foundation (NRF), South Africa	South Africa	01/2022 – 12/2023
University Research Council (URC) Postdoctoral Fellowship	University of Johannesburg, South Africa	South Africa	04/2020 – 03/2022
Ruth Patrick Student Travel Award	Institute of Food Technologist (IFT)	United States of America	06/2019
IUPAC Summer School	United Nations Environmental Programme (UNEP)	Tanzania	05/2019
Global Excellence and Stature Doctoral Scholarship (GES) 2017	University of Johannesburg, South Africa	South Africa	01/2017 – 12/2019
MYTOX-SOUTH Traineeship PhD	MYTOX-SOUTH and Ghent University, Belgium	Belgium	01/2018
Global Excellence and Stature Masters Scholarship (GES) 2014	University of Johannesburg, South Africa	South Africa	12/2014 – 12/2016
SurePure Study Fellowship	SurePure Inc. South Africa	South Africa	02/2014

MEMBERSHIP OF PROFESSIONAL BODIES

- International Union of Pure and Applied Chemistry (IUPAC)
- South African Council for Natural Scientific Professions (SACNASP)
- South African Chemical Institute (SACI)
- Institute of Food Technologist (IFT)
- Golden Key International Honor Society

PEER REVIEWS FOR JOURNALS

- Food Chemistry
- International Journal of Food Contamination
- Food Additives and Contaminants
- Food Science & Nutrition
- South African Journal of Botany
- Journal of Food Process Engineering
- Biomass Conversion and Biorefinery
- Journal of Essential Oil Bearing Plants
- GM Crops and Food

BOOKS, JOURNALS AND CONFERENCES

Journal articles

- Ogundele, O. M., **Gbashi, S.**, Oyeyinka, S. A., Kayitesi, E., and Adebo, O. A. (2021). Optimization of infrared heating Conditions for precooked cowpea production using response surface methodology. *Molecules*, 26(20), 6137.
- Gbashi, S.**, Adebo, O. A., Adebisi, J. A., Targuma, S., Tebele, S. M., Areo, O. A., Olopade, B., Odukoya, J. O., Njobeh, P. B. (2021). Food safety and security and genetically modified organisms in Africa: a current perspective. *Biotechnology and Genetic Engineering Reviews*. 37(1), 30–63.

- Olopade, B. K., Oranusi, S. U., Nwinyi, O. C., **Gbashi, S.**, and Njobeh, P. B. (2021). Occurrences of Deoxynivalenol, Zearalenone and some of their masked forms in selected cereals from Southwest Nigeria. *NFS Journal*, 23, 24-29.
- Gbashi, S.**, Adebo, O. A., Doorsamy, W., and Njobeh, P. B. (2021). Systematic delineation of media polarity on COVID-19 vaccines in Africa using computational linguistic models. *JMIR Medical Informatics*, 9(3), e22916.
- Bamikole, O. A., Green, E., Adebiyi, J. A., Ogundele, O. M., **Gbashi, S.**, Adefisoye, A. M., Oyeyinka, S. A., and Adebo, O. A. (2021). Metabolomic approaches for the determination of metabolites from pathogenic microorganisms: A review. *Food Research International*, 140, 110042.
- Adebo, O. A., Molelekoa, T., Makhuvele, R., Adebiyi, J. A., Oyedeji, A. B., **Gbashi, S.**, Adefisoye, M. A., Ogundele, O. M., and Njobeh, P. B. (2021). A review on novel non-thermal food processing techniques for mycotoxin reduction. *International Journal of Food Science and Technology*, 56(1), 13-27.
- Odukoya, J. O., De Saeger, S., De Boevre, M., Adegoke, G. O., Audenaert, K., Croubels, S., Antonissen, G., Vermeulen, K., **Gbashi, S.**, and Njobeh, P. B. (2021). Effect of selected nixtamalization cooking materials on the reduction of fusarium mycotoxins in maize and sorghum. *Toxins*, 13(1), 27.
- Gbashi, S.**, Madala, N. E., De Saeger, S., De Boevre, M., Kagot, V., and Njobeh, P. B. (2020). Parallel validation of a green-solvent extraction method and quantitative estimation of multi-mycotoxins in staple cereals using LC-MS/MS. *Scientific Reports*, 10(1), 1-16.
- Kabanda, M. M., **Gbashi, S.**, and Madala, N. E. (2020). Proportional coexistence of okanin chalcone glycoside and okanin flavanone glycoside in *Bidens pilosa* leaves and theoretical investigation on the antioxidant properties of their aglycones. *Free Radical Research*, 1-43.
- Makhuvele, R., Naidu, K., **Gbashi, S.**, Thihe, V. C., Adebo, O. A., and Njobeh, P. B. (2020). The use of plant extracts and their phytochemicals for control of toxigenic fungi and mycotoxins. *Heliyon*, 6(10), e05291.
- Tebele, S. M., **Gbashi, S.**, Adebo, O., Changwa, R., Naidu, K., and Njobeh, P. B. (2020). Quantification of multi-mycotoxin in cereals (maize, maize porridge, sorghum and wheat) from Limpopo province of South Africa. *Food Additives & Contaminants: Part A*, 37(11), 1922-1938.
- Areo, O. M., Phoku, J. Z., **Gbashi, S.**, and Njobeh, P. B. (2020). A preliminary study of multi-mycotoxins contamination in some selected South Africa medicinal plants. *Emirates Journal of Food and Agriculture*. 2020. 32(6): 426-433.
- Gbashi, S.**, Madala, N. E., De Saeger, S., De Boevre, M., and Njobeh, P. B. (2019). Numerical optimization of temperature-time degradation of multiple mycotoxins. *Food and Chemical Toxicology*, 125, 289-304.
- Gbashi, S.**, Madala, N. E., De Saeger, S., De Boevre, M., and Njobeh, P. B. (2019). Development, chemometric-assisted optimization and in-house validation of a pressurized hot water extraction (PHWE) methodology for multi-mycotoxins in maize. *Food Chemistry*, 307, 125526.
- Olopade, B. K., Oranusi, S. U., Nwinyi, O. C., Lawal, I. A., **Gbashi, S.**, and Njobeh, P. B. (2019). Decontamination of T-2 Toxin in Maize by Modified Montmorillonite Clay. *Toxins*, 11(11), 616.
- Mokubedi, S. M., Phoku, J. Z., Changwa, R., **Gbashi, S.**, and Njobeh, P. B. (2019). Analysis of Mycotoxins Contamination in Poultry Feeds Manufactured in Selected Provinces of South Africa Using UHPLC-MS/MS. *Toxins* 11(8), 452.
- Wanjeri, V. W., **Gbashi, S.**, Ngila, J. C., Njobeh, P., Mamo, M. A., and Ndungu, P. G. (2018). Chemical Vapour Deposition of MWCNT on Silica Coated Fe₃O₄ and Use of Response Surface Methodology for Optimizing the Extraction of Organophosphorus Pesticides from Water. *International Journal of Analytical Chemistry*, 2019(Article ID 4564709), 1-16.
- Adebo, O. A., Njobeh, P. B., **Gbashi, S.**, Nwinyi, O. C., and Mavumengwana, V. (2017). Review on microbial degradation of aflatoxins. *Critical Reviews in Food Science and Nutrition*, 57(15), 3208-3217.
- Gbashi, S.**, Adebo, O. A., Piater, L., Madala, N. E., and Njobeh, P. B. (2017). Subcritical water extraction of biological materials. *Separation and Purification Reviews*, 46(1), 21-34.
- Mosotho, J. G., Njobeh, P. B., **Gbashi, S.**, Adegoke, G. O., Madala, N. E. and Dubery, I. A. (2017). Rapid screening of volatile organic compounds from *Aframomum danielli* seeds using headspace solid phase microextraction coupled to a gas chromatography mass spectrometry. *International Journal of Analytical Chemistry*, 2018(6), 1-7.
- Gbashi, S.**, Njobeh, P., Steenkamp, P., and Madala, N. (2016). Pressurized hot water extraction and chemometric fingerprinting of flavonoids from *Bidens pilosa* by UPLC-tandem mass spectrometry. *CYTA - Journal of Food*, 15(2), 171-180.
- Gbashi, S.**, Njobeh, P., Steenkamp, P., Tutu, H., and Madala, N. (2016). The effect of temperature and methanol–

- water mixture on pressurized hot water extraction (PHWE) of anti-HIV analogues from *Bidens pilosa*. Chemistry Central Journal, 10(1), 1–12.
- Johnson, J. T., **Gbashi, S.**, Ujong, U. P., and Onyenweaku, E. O. (2016). Bacteriological assessment of cassava products in Makurdi markets, Guinea savanna, Nigeria. Nutrition and Food Science, 1(2), 1–3.
- Khoza, B. S., **Gbashi, S.**, Steenkamp, P. A., Njobeh, P. B., and Madala, N. E. (2016). Identification of hydroxycinnamoyl tartaric acid esters in *Bidens pilosa* by UPLC-tandem mass spectrometry. South African Journal of Botany, 2016, 96–100.
- Theophilus, J. J., Ashi, A. R., **Gbashi, S.**, and Joseph, O. A. (2015). Formulation, nutritive value assessment and effect on weight gain of infant formulae prepared from locally available materials. Journal of Food and Nutrition Sciences, 3(1), 39–46.

Book chapters

- Njobeh, P. B., and **Gbashi, S.** (2021). Conclusions and future trends. In S. A. Oyeyinka & B. I. O. Adeomowaye (Eds.), Food and Potential Industrial Applications of Bambara Groundnut (pp. 227–228). Springer International Publishing.
- Gbashi, S.**, Madala, N. E., Adekoya, I.O., De Saeger, S., De Boevre, M., Adebo, O. A., and Njobeh, P. B. (2018). The socio-economic impact of mycotoxin contamination in Africa. In P. B. Njobeh (Ed.), Fungi and Mycotoxins - Their Occurrence, Impact on Health and the Economy as well as Pre- and Postharvest Management Strategies (pp. 1-20). Rijeka, Croatia: InTech.
- Ayeleru, O. O., Ogundele, O. M., **Gbashi, S.**, Adeniran, J. A., Dlova, S., Kayitesi, E., Ntuli, F., Belaid, M., Mbohwa, C., Olubambi, P. A. (2018). Fruit and Vegetable Consumption: A case study of food culture vis-à-vis health awareness among the students of the University of Johannesburg, South Africa. In: N. Motohashi. Fruit and vegetable consumption and health: new research (pp.145-161). New York, USA: Nova Science Publisher Inc.
- Gbashi, S.**, Madala, N. E., Adebo, O. A., Piater, L., Phoku, J. Z., and Njobeh, P. B. (2017). Subcritical water extraction and its prospects for aflatoxins extraction in biological materials. In L. B. Abdulra'uf (Ed.), Aflatoxin-Control, Analysis, Detection and Health Risks. Chap. 11, pp. 229-250. Rijeka, Croatia: InTech.
- Adebo, O. A., Njobeh, P. B., Adebisi, J. A., **Gbashi, S.**, Phoku, J. Z., and Kayitesi, E. (2017). Fermented Pulse-Based Food Products in Developing Nations as Functional Foods and Ingredients. In M. C. Hueda (Ed.), Functional Food - Improve Health through Adequate Food (pp. 77–101). Rijeka, Croatia: InTech.
- Adebo, O. A., Njobeh, P. B., Adebisi, J. A., **Gbashi, S.**, and Kayitesi, E. (2017). Food Metabolomics: A New Frontier in Food Analysis and its Application to Understanding Fermented Foods. In M. C. Hueda (Ed.), Functional Food - Improve Health through Adequate Food (pp. 211–234). Rijeka, Croatia: InTech.
- Adebo, O. A., Kayitesi, E., Adebisi, J. A., **Gbashi, S.**, Temba, M. C., Lasekan, A., Phoku, J. Z., Njobeh, B. P. (2017). Mitigation of acrylamide in foods: An African perspective. In B.S.R. Reddy (Ed.), Acrylic Polymers in Healthcare (pp. 151-174). Rijeka, Croatia: InTech.

Articles in writing

- Ncube, P., Zvinowanda, C., Belaid, M., **Gbashi, S.**, and Ntuli, F. (2022). Heterogeneous photocatalytic degradation of Nevirapine in Wastewater using UV/TiO₂/H₂O₂ process: Optimization of parameters (in writing).
- Targuma, S., Njobeh, P. B., **Gbashi, S.**, Sheppard, C. J., Prinsloo, A. R. E., Ndungu, P. G. (2022). Adsorption studies of methyltheobromine from aqueous solution using a novel magnetic nanocomposite (Fe₃O₄@SiO₂@GO functionalized with 1-butyl-3-methylimidazolium tetrafluoroborate ([BMIM]BF₄)). (in writing).
- Targuma, S., Njobeh, P. B., **Gbashi, S.**, Ndungu, P. G. (2022). Dispersive solid-phase extraction of pharmaceuticals in fruit juice using Fe₃O₄@SiO₂@GO functionalized with 1-butyl-3-methylimidazolium tetrafluoroborate. (in writing).
- Gbashi, S.**, Moyo, S., Kewuyemi, Y., Igbashio, M., Momoh, C. (2021). African Fermented Vegetable and Fruit-Based Products. In O. A., Adebo, C. Chinma, A. Obadina, A. Soares, S. Panda, R. Gan, Indigenous Fermented Foods for the Tropics. (submitted).
- Gbashi, S.**, Olopade, B., Adelusi, O. and Tebele, S. (2022). Metagenomics for the identification and characterization of microorganisms in fermented foods. In O. A., Adebo, C. Chinma, A. Obadina, A. Soares, S. Panda, R. Gan, Indigenous Fermented Foods for the Tropics. (submitted).
- Adebisi, J. A., Njobeh, P. B., **Gbashi, S.**, Bamikole, O. A., Ogundele, O. M., Oyeyinka, S. A, and Adebo, O. A. (2021). Fermentation of cereals and legumes and its influence on nutritional constituent and nutrient bioavailability. (submitted).

- Kellner, N., Njobeh, P. B., Changwa, R., De Boevre, M., Detavernier, C., Dumoulin, F., Van De Velde, M., **Gbashi, S.**, and De Saeger, S. (2021). Safety evaluation of South African indigenous food crops towards their multi-mycotoxin profile. *Toxins* (to be submitted).
- Aasa, A. O., Njobeh, P. B., Fru, F. F., **Gbashi, S.** and Adelusi, O. A. (2021). Mycotoxin Contamination of Staple Foods Obtained from Ivory Coast. *Toxins* (to be submitted).
- Olorunnado, G. B., Muhammad, H. K., Apeh, D. O., Salubuyi, S., Akanya, H. O., **Gbashi, S.**, Njobeh, P. B., Makun, H. A. (2020). Incidence and health risk assessment of hydrogen cyanide and multi-mycotoxins in Nigerian *garri*. *LWT - Food Science & Technology* (submitted).
- Areo, O. M., Abafe, O. A., **Gbashi, S.**, and Njobeh, P. B. (2021). Detection of multi-mycotoxins in rooibos and other consumed teas in South Africa by QuEChERS and ultra-high performance liquid chromatography tandem mass spectrometry. *Toxins* (submitted).

Conferences

- Gbashi, S.** (2021). Systematic delineation of media polarity on COVID-19 vaccines in Africa using computational linguistic models. African Research Universities Alliance (ARUA) 2021 Biennial International Conference, 18-20 November 2021, Pretoria, South Africa.
- Gbashi, S.** (2021). Effect of COVID-19 on research. 2021 LEAP AGRI mycotoxin workshop (virtual). July 8-9 2021, Johannesburg, South Africa.
- Tebele, S. M., **Gbashi, S.**, Adebo, O. A., Changwa, R., Naidu, K., and Njobeh, P. B. (2019). Quantification of multi-mycotoxins in cereals (maize, maize porridge, sorghum and wheat) from Limpopo Province of South Africa. AOAC International sub-Saharan Africa Annual Meeting, 05 - 08 November 2019. Cape Town, South Africa. (Abstract)
- Gbashi, S.**, Madala, N. E., De Saeger, S., De Boevre, M., and Njobeh, P. B. (2019). Development, chemometric-assisted optimization and in-house validation of a pressurized hot water extraction method for the extraction of multi-mycotoxins. 2019 IUPAC Postgraduate Summer School on Green Chemistry. May 12-19th, 2019. Dar es Salaam, Tanzania. (Abstract)
- Gbashi, S.**, Madala, N. E., De Saeger, S., De Boevre, M., and Njobeh, P. B. (2019). Numerical optimization of temperature-time degradation of multiple mycotoxins. 2019 Institute of Food Technology (IFT) Meeting & Food Expo event. June 2-5th, 2019. New Orleans, USA. (Abstract)
- Gbashi, S.**, Madala, N. E., De Saeger, S., De Boevre, M., and Njobeh, P. B. (2018). Multivariate optimization of the thermal degradation of fusarium toxins and ochratoxins in maize matrix. In: Proceedings of the Africa Food safety workshop 2018. June 4-8th, 2018. Pretoria, South Africa. (Abstract)
- Gbashi, S.**, Madala, N., Adebo, O. A., and Njobeh, P. B. (2017). Development and validation of a pressurized hot water extraction method for the extraction of aflatoxin B1 in maize. In 7th Euro Global Summit on Clinical Microbiology and Mycotoxins. February 27-28th, 2017 Amsterdam, Netherlands (p. Full text data not published). Amsterdam, Netherlands. (Abstract)
- Gbashi, S.**, Madala, N., Adebo, O. A., and Njobeh, P. B. (2017). Temperature-time numerical modelling of the thermal degradation of aflatoxin B1 (AFB1) using response surface methodology. In Proceedings of the 1st MYCOKEY International Conference. Global Mycotoxin Reduction in the Food and Feed Chain. September 11-14th, 2017. Ghent, Belgium. (Abstract)
- Njobeh, P., **Gbashi, S.**, Adebo, O., Pieters, M., and Whaley, A. (2017). Determination of mycotoxins in foods and feeds in Africa: the role of Pegasus-HRT for mycotoxin quantification. In Proceedings of the 7th Euro Global Summit on Clinical Microbiology and Mycotoxins, February 27-28th, 2017. Amsterdam, Netherlands. (Abstract)

INTERNATIONAL COLLABORATIONS

Institution	Project	Year
Federal University of Technology, Minna, Nigeria	Incidence, phylogenicity and toxigenicity of fungi in millet from selected agro ecological zone of Nigeria toward building biological control. Multioccurrence of Mycotoxin and Characterization of Natural antifungal product in Millet from Nigeria	2018
Covenant University, Nigeria	Occurrence of deoxynivalenol, zearalenone and their masked forms in selected cereals from South-western Nigeria	2018

NRF South Africa-Egypt Joint Science and Technology Research Collaboration	Fungal and mycotoxin profiling in animal feeds and associated exposure in dairy cows	2017 – 2019
University of Ibadan, Nigeria	Rapid Screening of volatile organic compounds from <i>Aframomum danielli</i> seeds using headspace solid phase microextraction coupled to gas chromatography mass spectrometry	2017
Trakia University, Bulgaria	Microbiological quality assessment of bee-pollen collected from Bulgaria	2016
University of Agriculture Abeokuta, Nigeria	Microbiological safety of groundnut and “kulikuli” sold in selected Nigerian States	2015

RESEARCH VISITS

Institution	Activity	Duration of stay	Year
Ghent University, Belgium	PhD Traineeship Exchange Student. Conducting research on a comparison of pressurized hot water extraction (PHWE) and a solvent-based extraction method for the estimation of multi-mycotoxin levels in staple cereals from selected regions in Nigeria	3 months	2018

LEADERSHIP EXPERIENCE

Conference/Workshop committees	Year	Role/Duties
2021 LEAP AGRI mycotoxin workshop (virtual), University of Johannesburg, South Africa	2021	Organizing committee member involved in programme planning and logistics.
2020 LEAP AGRI MycoSafe-South Workshop, University of Johannesburg, South Africa	2020	Organizing committee member involved in programme planning and logistics.
Mycotoxin Analysis Workshop, University of Johannesburg, South Africa.	2018	Organizing committee member involved in programme planning and logistics.
2016 Autumn International Scientific Conference on Food Safety and Security (FSaS). University of Johannesburg, South Africa.	2016	I was a member of the conference planning committee. I served under the marketing, website management and publicity division of the committee. We were in charge of conference visibility, marketing, communications and publicity. We held monthly meetings with other members of the committee to discuss developments in the promotion of the conference, progress with improving interest in, as well as reputation of the conference.
Entrepreneurship Workshop, University of Mkar, Gboko, Nigeria.	2014	LOC member involved in programme planning and logistics.
Departmental seminar coordinator, Department of Food Science and Technology, University of Mkar, Gboko, Nigeria.	2013 – 2014	Plan and organize student seminar presentation in the department.

COMMUNITY ENGAGEMENT AND DEVELOPMENT SERVICE

Organization/Affiliation	Activity/Benefiting Community
SOS Children's Villages (South Africa) 2015 to date	Monthly donations to the childcare and orphanage organization.
Millennium Development Goals (MDGs) Knowledge facilitator (Nigeria) 2011-2012	Conducted trainings and workshops on the UN's MGDs. Carried out various humanitarian activities including sensitizations, environmental sanitation, distribution of relief materials, and

Nigerian Christian Corpers' Fellowship (NCCF) and Christian Embassy Akure (Nigeria)
2011-2012

computer trainings at orphanages and other rural areas in Ondo State, Nigeria.

Distributed relief materials (clothes, food, shoes etc) to *Akpomo* community, Akure-south, Ondo State.

Environmental sanitations, organized holiday lessons for secondary school students at *Irese, Ifedore* LGA, Ondo State. Monthly visits to *Aaye* Community, Ondo State. Distributed stationeries (books, pens, pencils) to students in the community.

REFEREES

P.B. NJOBEL (Prof) (Professor)

Department of Biotechnology and Food Technology, University of Johannesburg, Doornfontein Campus, 2028, Gauteng, South Africa.

Phone: (+27) 11 559 6803;

Mobile: (+27) 71 339 9978;

e-mail: pnjobel@uj.ac.za

S. DE SAEGER (Prof) (Professor)

Centre of Excellence in Mycotoxicology and Public Health, Department of Bioanalysis, Ghent University, 9000 Ghent, Belgium.

Mobile: (+32) 9 264 81 34;

email: Sarah.DeSaeger@ugent.be

N.E. MADALA (PhD) (Associate Professor)

Department of Biochemistry, School of Mathematical and Natural Sciences, University of Venda, Thohoyandou, South Africa.

Mobile: (+27) 83 464 9922;

email: Ntakadzeni.Madala@univen.ac.za;

ntaka.madala@univen.ac.za