

CURRICULUM VITAE

MURWANASHYAKA Theophile

Kibogora Polytechnic

Western Province - Republic of Rwanda

Tel: +250789559956, mukadafi@gmail.com

<https://orcid.org/my-orcid?orcid=0000-0002-3405-335X>

<https://www.webofscience.com/wos/author/record/L-3501-2019>

<https://scholar.google.com/citations?user=CaoNFzAAAAAJ&hl=en>

A resourceful chemical engineer and a dedicated university lecturer with more than 8 years of experience teaching at the university level with distinguished record of publication in academic journals worldwide. As an educator, I am committed to help students develop their full potential in their studies. I am also skilled in communication, presentation and interpersonal relations, and I do take proactive and innovative approaches to get the job done.

A. SKILLS

- ✓ Familiar to work in a multicultural environment;
- ✓ Strong sense of responsibility in conducting team works;
- ✓ Rapid adaptability to solving new problems and cooperative skills;
- ✓ Computer Literacy: **MS-Office package, Statistics and Mathematics packages (including OriginLab, SPSS, Matlab and Python).**

B. PROFESSIONAL CAREER

Year	Institution	Post held
2023/6 – Today	Kibogora Polytechnic	Lecturer in Education faculty
2021/7 – 2023/5		Lecturer and Dean of Education faculty
2019/2 – 2021/6		Lecturer, Director of grants and research, and Dean of Education faculty
2018/8 – 2019/1		Lecturer and Director of grants and research
2013/9- 2018/6	Xiamen University	PhD student/Researcher/Supervisor's Assistant
2011/9- 2013/6		Master student/Researcher
2011/1-2011/9	Gisenyi College	Chemistry Teacher

C. EDUCATION BACKGROUND

- ✓ **2013/9-2018/6:** PhD study in Chemical Engineering at Xiamen University P.R. of China, Department of Chemical and Biochemical Engineering.
- ✓ **2011/9-2013/6:** Master study in Chemical Engineering at Xiamen University/China; Department of Chemical and Biochemical Engineering.
- ✓ **2006/1-2010/10:** Undergraduate study at National university of Rwanda/Rwanda; Department of Chemistry.

D. TRAINING, SEMINAR AND WORKSHOPS ATTENDED

Period	Title	Organizer
Nov 16 th , 2020 - Feb 26 th , 2021	Clinical Pharmacology and pharmacometrics	Pharmacometrics Africa
October 14 th -17 th , 2019	Workshop on Clinical pharmacometrics: Concepts and Applications	Rwanda Biomedical Center in collaboration with Pharmacometrics Africa
July 19 th - 21 st , 2017	Global Chinese Chemical Engineering Symposium 2017	Global Chemical Engineering Symposium
January 10 th -12 th , 2016	The Symposium on Marine Biochemical Engineering: Current Status and Future Directions	Professor Lu Yinghua Xiamen University/China
September 19 th -20 th , 2015	The 1 st Graduate student forum Fujian Collaborative Innovation Center for Exploitation and Utilization of Marine Biological Resources (Symposium)	Fujian Collaborative Innovation Center for Exploitation and Utilization of Marine Biological Resources, Xiamen University, Jimei University/China
December 3 rd -5 th , 2013	The 4 th International Conference on Biorefinery towards Bioenergy	Xiamen University/China
April 14 th – 21 st , 2011	In-Service Training Phase 3 for mathematics and sciences teaching in secondary school	SMASSE Rwanda Project

E. RESEARCH

1. **2013/9- 2018/6:** PhD Research project “Exploration on heterotrophic cultivation of microalgae for nutrients removal from wastewater”.
2. **2012/2 - 2013/6:** Master Research project “Research on biosynthesis process for production of vancomycin by *Amycolatopsis orientalis*”.
3. **2010/1 - 2010/10:** Undergraduate final year Research work “Contribution to the Valorization of Agro-alimentary Sector Chaffs: *Case of Sorghum chaff*”.

F. PUBLICATIONS

1. Theoneste Ndikubwimana, Xianhai Zeng, **Theophile Murwanashyaka**, Emmanuel Manirafasha, Ning He, Wenyao Shao, Yinghua Lu. **2016**. Harvesting of freshwater microalgae with microbial bioflocculant: a pilot-scale study. *Biotechnology for Biofuels*, 9, 1-11. <https://doi.org/10.1186/s13068-016-0458-5>.
2. **Theophile Murwanashyaka**, Liang Shen, Jean Damascene Ndayambaje, Yuanpeng Wang, Ning He, Yinghua Lu. **2016**. Kinetic and transcriptional exploration of *Chlorella sorokiniana* in heterotrophic cultivation for nutrients removal from wastewaters. *Algal Research*, <http://dx.doi.org/10.1016/j.algal.2016.08.002>.
3. Liang Shen, Jean Damascene Ndayambaje, **Theophile Murwanashyaka**, Wenqian Cui, Emmanuel Manirafasha, Cuixue Chen, Yuanpeng Wang, Yinghua Lu. **2017**. Assessment upon heterotrophic microalgae screened from wastewater microbiota for concurrent pollutants removal and biofuel production, *Bioresource Technology* 245 (A), 386-393, <https://doi.org/10.1016/j.biortech.2017.07.177>.
4. Emmanuel Manirafasha, **Theophile Murwanashyaka**, Theoneste Ndikubwimana, Qian Yue, Xianhai Zeng, Yinghua Lu, Keju Jing. **2017**. Ammonium chloride: a novel effective and inexpensive salt solution for phycocyanin extraction from *Arthrospira (Spirulina) platensis*. *Journal of Applied Phycology* 29: 1261–1270, <https://doi.org/10.1007/s10811-016-0989-y>.
5. Emmanuel Manirafasha, **Theophile Murwanashyaka**, Theoneste Ndikubwimana, Nur Rashid Ahmed, Jingyi Liu, Yinghua Lu, Xianhai Zeng, Xueping Ling, Keju Jing. **2018**. Enhancement of cell growth and phycocyanin production in *Arthrospira (Spirulina) platensis* by metabolic stress and nitrate fed-batch, *Bioresource Technology* 255, 293-301, <https://doi.org/10.1016/j.biortech.2017.12.068>.
6. Emmanuel Manirafasha, Andrew Vajhuabmuas Vangh, **Theophile Murwanashyaka**, Benoit Rugabirwa, Theoneste Ndikubwimana, Godelieve Mukagatare, Jean Damascene Ndayambaje, Li Guo, Liang Shen, Xianhai Zeng, Keju Jing, Marcellin Rutegwa, Yinghua Lu. **2019**. Algal Resources Exploitation for Green Economy and Sustainable Development: A Review. *Advances in Biochemistry and Biotechnology* 7, DOI: [10.29011/2574-7258.001089](https://doi.org/10.29011/2574-7258.001089).
7. **Theophile Murwanashyaka**, Liang Shen, Zheng Yang, Jo-Shu Chang, Emmanuel Manirafasha, Theoneste Ndikubwimana, Cuixue Chen, Yinghua Lu. **2020**. Kinetic modelling of heterotrophic microalgae culture in wastewater: Storage molecule generation and pollutants mitigation, *Biochemical Engineering Journal*, Volume 157, <https://doi.org/10.1016/j.bej.2020.107523>.
8. Emmanuel Manirafasha, Kailin Jiao, Xianhai Zeng, Yuanchao Xu, Xing Tang, Yong Sun, Lu Lin, **Theophile Murwanashyaka**, Theoneste Ndikubwimana, Keju Jing, Yinghua Lu. **2020**. Chapter 8 - Processing of Microalgae to Biofuels 111-128, in *Microalgae Cultivation for Biofuels Production*, Academic Press, <https://doi.org/10.1016/B978-0-12-817536-1.00008-4>.
9. Niyibizi Emmanuel, Dufitumukiza Abel, Mukanziza Jacqueline, **Theophile Murwanashyaka**, Ntakirutimana Edouard, Nyiramana Christine. **2020**. The Teaching and Learning Process during the Covid-19 Lockdown: Experiences of Students in Selected Rwandan Universities, *European studies*, <https://fis.uni-bamberg.de/handle/uniba/51388>.

G. PROFESSIONAL REFEREES

1. Professor Yinghua Lu (PhD)

College of Chemistry and Chemical Engineering, Xiamen University, China

Tel/Fax: +86 592 2186038; Email: ylu@xmu.edu.cn

2. Professor Nzabalirwa Wenceslas (PhD)

University of Rwanda, College of Education, Rukara, Rwanda

Tel: +250788428454; Email: wzabalirwa@gmail.com

3. Dr Ndikubwimana Theoneste (PhD)

Higher Education Council, Ministry of Education, Kigali, Rwanda

Tel: +250782110096; Email: ntheo05@gmail.com