

GEORGE WANDERA KISIMBIRI

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ABOUT ME

PhD researcher interested in climate and air quality. I am particularly interested the atmospheric chemistry of air pollutants from vehicular non-exhaust emissions, with a focus in brake wear-derived gaseous emissions. Additionally, I have expertise in utilizing synchrotron-based techniques to study secondary organic aerosol formation on atmospheric inorganic salts.

RESEARCH INTERESTS

Research Area: Vehicular Brake Wear Emissions, Surface Chemistry
Experimental: Mass Spectrometry Techniques (HR-TOF-CIMS, PTR-MS), Tribometer, Size Distribution equipment (SMPS, OPC), Synchrotron Techniques (APXPS, NEXAFS)

ACADEMIC BACKGROUND

2024-Present	PhD, Gaseous Emissions from Brake Wear and their potential to form Secondary Particles Stockholm University, Sweden
2022-2024	Masters, Chemistry (Atmospheric). Thesis: APXPS Investigations of Secondary Organic Aerosol (SOA) Formation on Atmospheric Inorganic salts University of Gothenburg, Sweden
2015-2019	Bachelor's, Industrial Chemistry Multimedia University of Kenya, Kenya

WORK EXPERIENCE

2024-Present	Doctoral Researcher, Gaseous emissions from Brake Wear and their potential to form Secondary Particles. Stockholm University, Sweden
2022-2024	International Student Ambassador University of Gothenburg, Sweden
2020-2022	Chief Operations Officer, Ongwediva Concrete Products, Kenya
2021	Tutorial Fellow, Kisiwa Technical Training Institute, Kenya
2019	Laboratory Analyst, Kenya Bureau of Standards, Kenya

TEACHING

2021	Tutorial Fellow	Organic, Inorganic Chemistry	Kisiwa TTI, Kenya
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CONFERENCES

2024	Bolin Centre for Climate Research	Stockholm, Sweden
2024	MAX1V 35 th User Conference	Lund, Sweden.

POSTER PRESENTATION

2024	MAX1V 35 th User Conference	Lund, Sweden.
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SCHOLARSHIPS AND AWARDS

2022-2024	Swedish Institute Scholarship for Global Professionals (Fully-funded) for a Master's programme in Chemistry at University of Gothenburg, Sweden	
2023	Swedish Institute- Diploma in Self Leadership Programme.	

MEMBERSHIP IN SOCIETIES

2024-	Bolin Centre For Climate Research	Sweden
2022-	Swedish Institute Network For Global Professionals (SINFGL)	Sweden

PUBLICATIONS

1. Chen Jie, George Wandera Kisimbiri*, Ivan Gladich, Nicolas Fauré, Erik S. Thomson, Robert Temperton, Zamin A. Kanji, and Xiangrui Kong. **2025**. "Surface Formation Pathway of Nitrogen- and Sulfur-Containing Organic Compounds on Ammonium Sulfate." *The Journal of Physical Chemistry A*. doi:10.1021/acs.jpca.5c00332
2. Madivoli, Edwin Shigwenya, Patrick Gachoki Kareru, David Sujee Makhanu, George Wandera Kisimbiri, Ernest Gachui Maina, Sammy Indire Wanakai, and Paul Kinyanjui Kimani. **2020**. "Synthesis of Spherical Titanium Dioxide Microspheres and Its Application to Degrade Rifampicin." *Environmental Nanotechnology, Monitoring & Management* 14: 100327. doi:10.1016/j.enmm.2020.100327.