



Mbongeni Tyesi

Geospatial Scientist

- 178 Kommetjie Road. Fish Hoek
- +27 72 252 4192
- <https://cv.mkhiwa.co.za>
- mstyesi@gmail.com
- 7709235590089
- South African

About Me

I am a Data Scientist with experience in scientific research, data acquisition, processing, analysis & reporting. I am familiar with open source and commercial management tools and the use of general computer programming languages. With exposure to project proposal development, planning, personnel management and training, budgeting, and technology development environment.

Languages

- isiXhosa ●●●●●
- English ●●●●●
- French ●●●●●

Hard Skills

- Computer Programming
- Image/Signal processing
- Scientific Research
- Statistical data analysis
- Data Visualisation and Reporting
- Project Management

Working Experience

- 2007-present **Research Scientist: Earth Observation** Department of Forester, Fisheries and Environment
Principal Investigator / Project manager for coastal weather station network program; Responsible for conducting research and providing scientific advice on the potential effects of climate change on coastal ecosystems
- 2006 – 2007 **Data Observer/Processor** HMO now SANS-SPACE
As Data Observer / Processor at the Hermanus Magnetic Observatory, My duties included measurement of Earth's magnetic field at Hermanus using an instrument known as DI Magnetometer; processing and storage data was archived on an INTERMAGNET international data repository for further research
- 2004 – 2006 **GIS Professional** ComputaMaps now LuxCarta
Visual and semi-automated analysis and interpretation of Satellite images; image classification; Land cover and land use mapping and map production.

Education

Certificates

- 10.2015 **Training on Marine Spatial Planning** GIZ & Benguela Current Commission
Introductory Training and Capacity Building on the implementation of Marine Spatial Planning Process in South Africa
- 05.2015 **Biological Oceanographic Processes** INCOISE-India
Training was conducted by the International Training Center for Operational Oceanography (INCOISE). dealing with Marine pollution & invasive species
- 2013 **Meridian: For established leaders-** Common Purpose South Africa-Cape Town
An experiential leadership programme for senior leaders from business, governments and social sectors across the world
- 04.2009 **Project Management** Cape Town University of Technology
The programme was conducted for 40 hours, providing government officials with introductory course in project management

Graduate Studies

- 2003 – 2004 **Master of Science in Remote sensing and GIS applications** Université Paris VI now Sorbonne Université
Focus: Application of Geographic Information Systems methods to solve real world problems; Data collection and storage; database design and .
- 2002 **Postgraduate Diploma in Engineering (PDE)** University of Stellenbosch
Impact of solar radiation onto rice hat cover materials with special attention to water resistance.
- 2003 – 2006 **B.Sc. degree, Major Courses: Physics and Applied Mathematics** Panda Academy
Courses: Applied Mathematics, Physics, Computer Science, Pure Mathematics

Matric Certificate

- 2006 – 2008 **Matric Certificate** Sterkspruit Senior Secondary
Mathematics, Biology, Physical Science, English, Afrikaans & Xhosa

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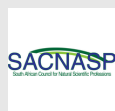
Soft Skills

- 🏠 Communication ●●●●
- ⚙️ Communication
- 👤 Teamwork ●●●●
- ⚙️ Proactive
- 👤 Problem-solving ●●●●
- ⚙️ Analytical skills
- ⚙️ Customer focus
- 👤 Leadership ●●●●
- ⚙️ Creativity & Self-management
- ⚙️ Conflict management
- ⚙️ Project development & implementation

Data Presentation

- 🔗 HTML ██████████
- 🔗 CSS ██████████
- 🔗 JavaScript ██████████
- 🖨️ Inkscape ██████████
- 🖨️ Adobe Photoshop ██████████

Memberships

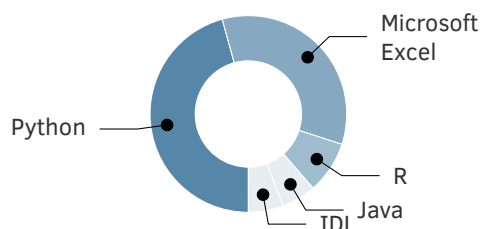


South African Counsel For Natural Scientific Profession

Publications

- 2020 **Long-term trends in upwelling indices for the West and South Coasts**
M.S. TYESI
Oceans and Coasts Annual Science Report 2020, pp 8
- 2020 **Automatic Weather Stations on the West Coast (AWS)**
M.S. TYESI, M. Kruger, F. Frantz, D. Anderson
Oceans and Coasts Annual Science Report 2020, pp 28
- 2019 **Long-term trends in upwelling indices for the West and South Coasts**
M.S. TYESI
SOUTH AFRICA'S OCEANS AND COASTS ANNUAL SCIENCE REPORT, 2019, pp 6
- 2015 **4. South African coastal upwelling indices**
M.S. TYESI
STATE OF THE OCEANS & COASTS AROUND SOUTH AFRICA 2015 report card, Report NO.15, pp 4

Programming Languages



Geospatial Analysis Software

- 🌐 ESRI ArcGIS ██████████
- 🌐 Quantum GIS ██████████
- 🌐 eCognition ██████████

References

- Michelle Williams**
Operations Manager: LuxCarta
Tel: +27 21 713 8630
- Dr Pieter Kotzé**
Senior Researcher: South African National Space Agency(SANSA)
Tel: +27 28 312 1196/214
- Mr Jimmy Khanyile**
Deputy Director: DFFE
Tel: +27 83 433 7652