

## CASSANDRA MZOLA

*Environmental Scientist / Data Analyst / Sustainability Advocate / ESG & Science Communicator / Entrepreneur*

Pretoria, Gauteng, South Africa

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## Summary

Environmental Scientist and Data Analyst with experience in sustainability, ESG, and science communication. Entrepreneurial thinker, founder of **EcoAnalytics**, a data-driven solution for efficient city waste management, and creator of **Earth Connect**, delivering accessible sustainability education. Skilled in bridging science and society, data analytics, and environmental project management, with experience in national and international programs, virtual internships, and public engagement initiatives.

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## Experience

### SARAO – South African Radio Astronomy Observatory

*Science Engagement Intern* | May 2025 – Present | Gauteng, South Africa

- Conduct educational tours, workshops, and community outreach.
- **Interactive Online Platform:** Developed a digital engagement tool presented at the Communicating Discovery Science Symposium 2024 and African Astronomical Society Conference 2025.
- Develop and support sustainability initiatives, including Environmental Management Plans (EMP).
- **Women of Worth (WoW):** events lead for the women empowerment initiative.

### Virtual Internships & Data Analytics Projects

- **KPMG Australia – Data Analytics Consultant** | Oct – Nov 2023
- **Accenture – Virtual Data Analytics Intern** | Nov 2023
- Conducted data cleaning, modeling, visualization, and reporting.
- Built dashboards and delivered insights to inform strategy.
- Applied environmental and sustainability focus to data-driven solutions.

### Entrepreneurship & Sustainability Initiatives

- **EcoAnalytics:** Founded a data-powered platform to help cities manage waste more efficiently and reduce environmental harm. Pitched at JAMII Femmes Program (Mar 2024) and BRICS Women's Startup Contest (Jul 2024).
- **Earth Connect:** Developed sustainability education platforms for public engagement through social media and interactive content.

## University of the Western Cape

- *Creative Arts Choir – Social Media Manager & Deputy Secretary* | Aug 2018 – Jan 2021
  - Proposed, created, and managed the choir's social media, increasing visibility and engagement.
  - *Peer Facilitator/Mentor – Office for Student Development* | Jan 2019 – Feb 2019
  - Supported first-year students' transition from high school to university.
  - *Aid to Executive Convener: Admin & Associate Chair for Social Media & PR – Green Campus Initiative* | Mar – Jul 2019
  - Managed PR and social media for the 4IR Conference and assisted with administrative tasks.
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## Education

**University of the Western Cape** – BSc Environmental and Water Sciences | Jan 2018 – Mar 2022

**Hoërskool Coligny** – National Senior Certificate | Jan 2012 – Dec 2016

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## Certifications

- Data Analyst Associate (Google/Coursera, Nov 2023)
  - ISO 14001:2015 EMS (Alison, Mar 2023)
  - Introduction to ESG (CFI, Jan 2024)
  - Climate Change From Learning To Action (Jan 2025)
  - BRICS Women's Startup Contest – Certificate of Participation (Nov 2024)
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## Skills

### Environmental & Sustainability Expertise

- Water Quality Monitoring & Analysis
- Hydrology & Catchment Systems Assessment
- Pollution Assessment & Mitigation Strategies
- Environmental Management Planning & Compliance

### Data & Analytics

- Data Cleaning, Modeling & Visualization (Python, SQL, Tableau, Power BI)
- Statistical Analysis & Trend Interpretation
- ESG & Sustainability Data Reporting

### Science Communication & Engagement

- Public Outreach & Educational Program Development
- Workshop Facilitation & Interactive Learning
- Digital Content Creation (Medium, Social Media, Infographics)

### **Technical & Professional Tools**

- Project Management & Event Coordination
- Research & Technical Report Writing
- Stakeholder Engagement & Collaboration