

DANIEL MUNGAI NDEGWA

I am a fisheries officer working with the Kenya Fisheries Service in the Fish breeding and production department of the Aquaculture directorate. Besides, I am an enthusiast of data science. I therefore have done data analysis for many students in their postgraduate levels thus enabling them to graduate on time. In addition, I have created several shiny apps to aid in data collection and general data management in the National Aquaculture Centre. I am also a data management consultant and trainer with TCC - Africa and a co-director in WritingHub Africa.

EDUCATION

2020
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2017

● **MSC. Fisheries Management**

Kisii University

📍 Kisii - Kenya

- Focused on Ecosystems models while modelling the impacts of fishing on fisheries interactions in Lake Victoria
- Thesis: Modelling the Impacts of Fishing on Trophic Interactions in Lake Victoria

2016
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2012

● **B.S., Applied Aquatic Science**

Egerton University

📍 Nakuru - Kenya

- Focused on Investigating the microbial quality of tapped water used in Egerton University
- Thesis: The Microbial Quality of tapped water used in Egerton University

EMPLOYMENT EXPERIENCE

Present
|
2021

● **Fisheries Officer**

Kenya Fisheries Service

📍 Kirinyaga, Kenya

- Fisheries Officer in the Breeding and Genetics Department.
- Developing tools and frameworks for data collection, analysis and Management

Present
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2020

● **Data Management Trainer**

TCC - AFRICA

📍 University of Nairobi

- Training and Assisting corporations on Data Management practices and Principles

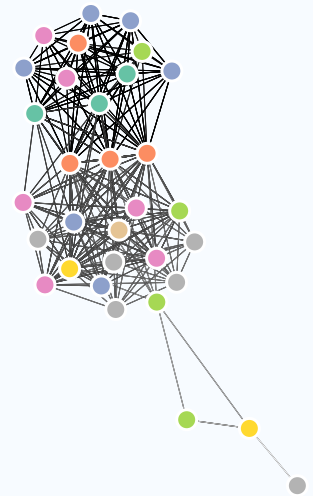
Present
|
2020

● **Data Artist In Residence**

writinghubafrica.co.ke

📍 Nairobi - Kenya

- Assisting earlier career researchers and students on data analysis and general data management



View this CV online with links at
[_https://github.com/DanMungai/Data_Driven_cv.html_](https://github.com/DanMungai/Data_Driven_cv.html)

CONTACT



mungaindegwa@gmail.com



[Dan_Ndanuko](https://twitter.com/Dan_Ndanuko)



github.com/DanMungai



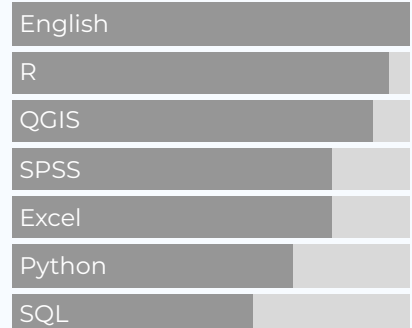
writinghubafrica.com



linkedin.com/in/danny

[mungai](#)

LANGUAGE SKILLS





RESEARCH EXPERIENCE

- 2021
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2021
- **Data Management**
Lake Victoria Homa County 📍 Homa Bay
 - Conducted Data analysis on environmental data in an environmental impact assessment project
 - Mapping of the region that require environmental impact assessment majorly on impacts on biodiversity
- 2019
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2018
- **Research Assistant**
Kenya Marine and Fisheries Research Institute 📍 Kisumu - Kenya
 - Conducted Research on changes in the Haplochromies of Lake Victoria
- 2017
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2016
- **Undergraduate Researcher**
Water Quality Lab 📍 Egerton University
 - Actively conducted Proximate feed analysis and ecosystem macro-indicators
- 2016
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2015
- **Undergraduate Researcher**
Nairobi City Water and Sewerage Company 📍 Nairobi - Kenya
 - Ensured Water Quality thresholds were met before water was released into the city
 - Did chemicals Quality assurance before use in the treatment process




TEACHING EXPERIENCE

- 2022
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2021
- **Statistical Computing in R**
TCC - AFRICA 📍 University of Nairobi
 - Training on Data Management
 - Covered introduction to R language for statistics applications
- 2022
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2021
- **Advanced Statistical Learning and Inference**
TCC - AFRICA 📍 University of Nairobi
 - TA and lectured
 - Topics covered from penalized regression to boosted trees and neural networks
 - Highest level course offered in department
- 2022
|
2021
- **Advanced Statistical Computing**
TCC - AFRICA 📍 University of Nairobi
 - TA and lectured
 - Covered modern statistical computing algorithms
 - 4th year PhD level class

I have a youtube channel in which I post videos that I have been using to train friends and colleagues on data management using Rstudio
https://www.youtube.com/channel/UCliu_Ms2RakatKRUbnykyw


2022
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2021

- **Data Visualization Best Practices**
TCC - AFRICA  University of Nairobi
 - Designed from bottom up course to teach best practices for scientific visualizations.
 - Uses R and ggplot2.
 - In top 10% on platform by popularity.

2020
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2018

- **Part time Lecturer**
Kisii University  Kisii - Kenya
 - Served as part time lecture for fish Nutrition and dietetics


2019
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2019

- **Improving your visualization in Rstudio**
TCC - AFRICA  University of Nairobi
 - Designed from bottom up course to teach advanced methods for enhancing visualization.
 - Uses python, matplotlib, and seaborn.




CERTIFICATES


2019
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2019

- **Emerging Frontiers for African Great Lakes**
Kenya Marine and Fisheries Research Institute  Kisumu - Kenya
 - Modelling the impacts of fishing on trophic interactions in Lake Victoria using Ecotroph and Ecospace
 - Presented at a conference


2018
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2018

- **Kisii University International Symposium**
Kisii University  Kisii - Kenya
 - International Symposium on Water Quality and Algal toxicity
 - Bowling Green State University Collaboration

2018
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2018

- **Effect of Climate Change and Environmental Pollution on Water on Fish Farming**
University of Nairobi  Chiromo - Nairobi - Kenya
 - A circle uptake workshop at the instute of climate change and adaptation, university of Nairobi
 - Certificate of Participation

2018
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2018

- **Mendeley Training**
Jomo Kenyattta University of Agriculture and Technology  JKUAT
 - Training on Mendeley as modern scientific referencing tool
 - Referencing with Mendeley and Zotero

I regularly blog about data science and visualization on my blog

- 2018
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2018
- **Training on Scientific writing and Communication**
TCC - AFRICA
• Scientific writing and communication
• Journal Selection
• Manuscript preparation
📍 Nairobi - Kenya
- 2012
|
2012
- **East African Water Association**
Egerton University
• Clean up of natural ecosystem
• Participation certificate
📍 Nakuru - Kenya
- 2011
|
2011
- **Ministry of Education Science and Technology**
Kairi Boys
• Certificate of Merit
• Best student in KCSE Among District Boarding Schools
📍 Thika - Kenya



FUNDING

- 2020
|
2017
- **German Academic Exchange Program (DAAD)**
DAAD Office Nairobi
• In-Country In-Region education scholarship
• Master of science scholarship at Kisii University
📍 Nairobi - Kenya



SELECTED PUBLICATIONS, POSTERS, AND TALKS

- 2022
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2022
- **Changes in water quality parameters and their effect on zooplankton distribution in a shallow bay of Lake Victoria, Kenya**
International Journal of Fisheries and Aquatic Studies
• Authored with N Outa, P Obama, F Ondemo, E Ogello
- 2022
|
2022
- **Impacts of Covid-19 Pandemic and Adaptive Strategies to Build Resilience in the Kenyan Aquaculture Sector**
scienceopen.com
• Authored with M Wankio, R Omondi, A Yasindi,
- 2020
|
2019
- **Ecotroph: A simple model to assess fishing and trophic interactions in Lake Victoria**
International Journal of Fisheries and Aquatic Studies
• Authored with Chrispine Nyamweya and Enock Obua
- 2019
|
2018
- **The impacts of introduced species on lake ecosystems: A case of Lakes Victoria and Naivasha, Kenya.**
AfricArXiv
• Authored with N Outa, JLA Keyombe

2019
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2018

● **The status of research on Lake Victoria fisheries: Historical and current data on fisheries and the lake environment**

AfricArXiv

• Authored with Brian O'Malley, Sture Hansson, and Jason Stockwell.

2019
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2019

● **Ecological implications of *Rastrineobola argentea* (omena) fishery: A rapid assessment of bycatch diversity at Dunga Beach, Lake Victoria, Kenya**

AfricArXiv

• Authored with N Outa, E Ogello, W Okinyi, J Iteba

I have been doing data analysis using R software for close to three years.



REFEREES

Present
|
2017

● **Dr. Chrispine Nyamweya**

Kenya Marine and Fisheries Research Institute

📍 Kisumu - Kenya

• Masters Supervisor
• sanychris@yahoo.com
• 724504636

Present
|
2021

● **Mr. Henry Mbugua Karonga**

Kenya Fisheries Service

📍 Kirinyaga, Kenya

• Supervisor and Boss at Kenya Fisheries Service
• mmkaronga@yahoo.co.uk
• 722357980

Present
|
2017

● **Prof Albert Getabu**

Kisii University

📍 Kisii - Kenya

• Examiner and Internal Supervisor at Kisii University
• getabualbert@gmail.com
• 726544456

Present
|
2017

● **Dr. Erick Ogello**

Maseno University

📍 Maseno - Kenya

• Lecturer Maseno University
• Mentor
• 708842832