Ryan Jayne

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Education

**(Fall 2022 – Spring 2026)**

Michigan State University

Dual PhD Earth and Environmental Science and Computational Math Science and Engineering with Dr. Bruno Basso

**(2020 - Present)**

Texas A&M University

MSc. Statistics

**(2016 – 2017)**

University of Stellenbosch, South Africa

MSc. (Master of Science) Agricultural Economics (Cum Laude)

**(2013– 2014)**

Universidade Federal de Minas Gerais (one and a half year study abroad)

**(2009 – 2013)**

University of New Mexico, United States of America

**BA (Bachelor of Arts) Major Economics, Minor Portuguese**

Work Experience

**Data Consultant | August 2017 – Present**

A wide network of connections has afforded me opportunities to contribute to research for NGO’s and universities – primarily Michigan State University and various institutions across Africa. The bulk of which include:

* With the Quantitative Fisheries Center at Michigan State University I conduct catch curve research, population dynamics modelling and simulation with Dr. James Bence.
* Worked to assist Dr. Mark Reimers in the department of Neuroscience at Michigan State University using statistical and machine learning methods to improve time series data quality with Long Short Term Memory models and data assimilation.
* Centre for Financial Regulation and Inclusion (Cenfri) in Cape Town, South Africa. Working to identify low-income households perceptions toward financial institutions and their likelihood of product uptake.

**AP Economics and Business Teacher | Shanghai Datong High School– Fairmont International School | August 2018 – 2019**

As an AP Economics and business teacher, I instruct both AP Microeconomics, AP Macroeconomics and an elective business course. I aim to create an environment conducive for learning by building rapport with students and challenging them academically with relevant content.

**Research Analyst | Centre for Financial Regulation and Inclusion (Cenfri) | October 2017 – July 2018**

At Cenfri I assisted in analysing large data sets to help improve low-income households to access financial services and products. Classifying individual’s default and uptake likelihoods across products and socioeconomic characteristics.

**Research Analyst| BFAP | January 2016 – October 2017**

Under the Bureau for Food and Agricultural Policy (BFAP), I have conducted economic research that focuses largely on the agricultural industry in sub-Saharan Africa for South African clients in the public and private sector. My duties include data analysis and formulation, the construction of business and policy briefs, presentation of results and team management.

**Data Specialist | CEPPAG | May – August 2015**

Michigan State University in conjunction with the Centre for Food, Politics, Policy and Agriculture in Mozambique (CEPPAG) contracted me to assist in the formulation and administration of an agricultural survey. Data cleaning, implementation and analysis were my responsibilities.

### **Data Specialist | MSU | March – May 2015**

Under this position for Michigan State University we operated in Malawi. I assisted in the formulation of an agricultural survey, it’s administration and management. I was the sole data analyst in this project.

### **Intern | ReNAPRI| May – July 2012**

This internship assisted in the administration of the Rural Agricultural Livelihoods Survey in Zambia. My duties were to manage a team of enumerators while administering a survey and to clean data.

Skills and Competencies

**Skills**

Data analysis, statistical modelling, machine learning, survey and sampling design. I also have experience with market research, project implementation, teaching, working with large datasets - collection and cleaning.

**Proficiencies**

R Programming

Python Programming

SAS Statistical Package – Certified Associate

STATA Statistical Package

Microsoft Excel

Microsoft Word

Microsoft PowerPoint

**Languages**

Portuguese (intermediate - fluent)

Spanish (intermediate)

Research and Publications

### **2018**

Accepted paper and presentation at the Agricultural Economics Association of South Africa:

“Towards agricultural transformation: factors influencing the cultivation of high value agricultural products in Uganda”. Jayne R, Ndibongo-Traub L.

### **2017**

Bureau for Food and Agricultural Policy: 2017 Outlook

Accepted poster for presentation at the Agricultural Economics Association of South Africa

### **2016**

Bureau for Food and Agricultural Policy: 2016 Outlook

References

References are available upon request.