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## EDUCATION

<b>Harvard Business School</b> Certificate, Teaching with Cases	<b>Boston, MA</b> <b>2024</b>
<b>Montana State University</b> M.Sc. And PhD. In Statistics	<b>Bozeman, MT</b> <b>2012</b>
<b>University of Kwazulu-Natal,</b> M.Sc. In Statistics, Cum Laude	<b>Pietermaritzburg, South Africa</b> <b>2004</b>
<b>University of Asmara</b> <b>B.S.</b> Major: Mathematics and Minor Statistics	<b>Asmara, Eritrea</b> <b>1998</b>

## PROFESSIONAL EXPERIENCE

- **Senior Lecturer**, The Ohio State University, Fisher College of Business, Department of Operations and Business Analytics **01/2019-Present**
  - **Courses Taught and currently teaching**
    - BUSOBA2320:** Business Statistics In large lecture and small recitations.
    - BUSOBA2321:** Business Analytics in large lectures and small recitations.
    - \*BUSOBA3332:** Applied Predictive Analytics Business
    - \*BUSOBA4233:** Operations Management Analytics
    - \*BUSOBA6273:** Data Analysis for Managers for working professionals MBA program
    - \*BUSOBA 7233.01:** Predictive Analytics for Specialized Master's in Analytics
    - \*BUSOBA 7233.02:** Predictive Analytics, Strategy & Applications
    - \*BUSOBA 7393:** Supply Chain Analytics for Master of Supply Chain Management.
    - \*Developed courses and materials.**
- **Faculty Mentor/ Advisor**, SMBA Predictive modeling course project and capstone project for the Specialized Master's in Analytics **2022- Present.**
- **Faculty Program Mentor**, Ohio State's Second-year Transformational Experience Program (STEP) **2022-Present**
- **Visiting Assistant Professor**, Department of Information Systems and Analytics, Farmer School of Business, Miami University, Oxford, OH **2014- 2018**
  - Courses Taught: **Business Statistics** (ISA 205), **Business Analytics** (ISA 225) and **Business Forecasting** (ISA 444)
- **Visiting Assistant Professor**, Department of Mathematics, Statistics and Computer Science, Augsburg University, Minneapolis, MN, **2012-2014**

- Courses Taught: **\*Statistical Modeling** (Math 394), **Statistics and probability** (Math 374), **Biostatistics** (Math 248), **Introductory Statistics** (Math 163) and **Practical Application of Mathematics** (Math 129).

\*Developed Statistical modeling (Math 394) class. Introduced the Statistical package R in all the Stat class taught.

• **Graduate Assistant (Instructor)**, Montana State University, Bozeman, MT, **2007-2012**

- Taught **introductory Statistics** (Stat 216), **intermediate Statistics** (Stat 217), **Pre-Calculus** (Math 151) and **College Algebra** (Math 121).

• **Statistical consultant**, Montana State University, Bozeman, MT **2008-2009**

- Provided statistical advice and analysis for industry as well as member of the university community. Some of the works are:

- Determine what effect multi-stage driving training has on driver behavior.

- Allocation of a budget using regression work done with a compensation consultant.

- Data Analysis: Impact cratering as a proxy for relative age determination on enceladus, using R. MSc. Student thesis

- Data Analysis: Successional Relationship between Gray Rubber Rabbitbrush and big sagebrush in burned sagebrush-grasslands.

• **Lecturer**, Department of Statistics and Demography, University of Asmara, Eritrea, **2004-2007**

- Courses taught: **Multivariate Statistical Analysis** (STAT422), **Time Series Analysis** (STAT351), **Introduction to Statistics** (STAT200), **Statistics Methods for Engineers** (ELEN451) and **Research Project I-II** in statistics (STAT 481-2): Responsible for advising undergraduate senior research project in Statistics.

• **Head of Records Office**, University of Asmara, Eritrea, **2004-2007**

- Tasks include administering, maintaining Complete, accurate, and confidential records of all academic information of current and past students. These include grades, enrolment information, courses taken, and other related materials.

- Assisted the Director of Academic Affairs, Admissions and Director of planning in Statistics.

- Assisted in moving the office from manual to Automatic Registry Information System (ARIS).

• **Statistical Consultant**, University of Asmara, Eritrea **2006-2007**

- Assisted researchers in designing, computing and data modeling and analysis.

- Characterization of family of Eritrean goats using multivariate techniques: Principal component and Factor Analysis, MSc. Thesis. Statistical part advisor.

• **University of Kwazulu-Natal, South Africa,**  
**Student Tutor (Graduate Assistant)**

**2003-2004**

- Provide assistance for Science Foundation Program (SFP) students in mathematics.

- Provide statistical assistance to undergraduate and graduate students: Helped in experimental design and analysis.

- **Teaching and Statistician, Asmara Eritrea** **1998-2001**  
- Taught Mathematics classes: **Algebra, Geometry, and business mathematics**. Data cleaning, organizing, summarizing and reporting statistical results. Lectured on methods of data collection and Analysis.

## SKILLS AND TECHNIQUES

- **Software:** Proficient in data extraction, cleaning, summarizing, organizing, reporting, designing and analyzing using R, JMP, SAS, PYTHON, SPSS, MINITAB, and MATLAB.
- Econometric packages: EVIEWS.

## WORKING PAPERS

- Number Theoretic Methods in Designing Experiments, **2012**
- Application of Generalized Linear Mixed Models for Eritrean Malaria, **2009**.
- Modeling Volatility of Time Series Data (South African Exchange Rate Volatility), **2004**.

## PUBLICATION

- 2024 Contributor to the Time series Model Estimation Tool suite for the Data Analytics & Visualization [blackbelt-apps](#) of Prof. Elliot Bendoly. Click [contributing developers](#).
- Miller\*, R; Schwarz\*, H. and **Talke, I.S** (2017). Forecasting Sports Popularity: Application of Time Series Analysis. **Academic Journal of Interdisciplinary Studies**, Vol. 6, No. 2.
- **Talke, I.S.** and Borkowski, J.J., (2016). Measures of uniformity for space-filling uniform designs in a spherical region. *Int. J. Experimental Design and Process Optimisation*, Vol. 5, Nos. 1/2. DOI: [10.1504/IJEDPO.2016.10001549](https://doi.org/10.1504/IJEDPO.2016.10001549)
- **Talke, I.S.** and Borkowski, J.J., (2012). Generation of space-filling uniform designs in unit hyper-cubes. *Journal of Statistical Planning and Inference*, Vol.142, 12, 3189–3200.
- **Talke, I.S.** and Borkowski, J.J.” New measures of discrepancy for uniform mixture designs” (In Progress).
- **Talke, I.S.** and Greenwood, M. Statistical Modeling Eritrean Malaria Data (In progress).  
(\* Undergraduate students).

## CONFERENCES/ SUMMIT/SYMPOSIUM

- Talke, I and Draper, J. (2025) presented at the First Fisher AI in Business Conference: Human-in-the-Loop AI: Enabling Responsible and Impactful Human-AI collaborations, October 2025.
- Presented topic contributed panel at the Joint Statistical Meetings (JSM) Conference, Nashville, Tennessee, 2025.
- Presented at the 17th Annual KEYBANK LEADERSHIP AND CREATIVITY UNDERGRADUATE SYMPOSIUM, hosted by Fisher College of Business, November 2024
- Presented topic contributed panel at the Joint Statistical Meetings (JSM) Conference, Portland, Oregon, 2024.
- Presented topic contributed panel at the Joint Statistical Meetings (JSM) Conference, Toronto, Canada, 2023

- Presented at the 16th Annual KEYBANK LEADERSHIP AND CREATIVITY UNDERGRADUATE SYMPOSIUM, hosted by Fisher College of Business, November 2023
- Presented at the 15th Annual KEYBANK LEADERSHIP AND CREATIVITY UNDERGRADUATE SYMPOSIUM, hosted by Fisher College of Business, November 2022
- Business Analytics and Statistics Success Summit Symposium hosted and funded by McGraw Hill, Washington DC, 2022.
- Chaired topic contributed panel at the Joint Statistical Meetings (JSM) Conference, Washington DC, 2022
- Presented at the 14th Annual KEYBANK LEADERSHIP AND CREATIVITY UNDERGRADUATE VIRTUAL SYMPOSIUM, hosted by Fisher College of Business, November 2021
- Presented at the 13th Annual KEYBANK LEADERSHIP AND CREATIVITY UNDERGRADUATE VIRTUAL SYMPOSIUM, hosted by Fisher College of Business, November 2020

### **AWARDS**

- Professional travel grant from the National Retail Federation (NRF) to attend Retail's Academic Symposium, Chicago **2017**.
- Professional travel grant, Augsburg University for the joint mathematical meeting, Baltimore, MD, **2014**.
- Graduate Teaching Assistantship, Montana State University, Bozeman, **2007–2012**.
- SUSAN (Sub-Saharan African Network of the International Biometric Society), travel scholarship, Kumasi, Ghana, July **2007**.
- Master's Degree Scholarship, HRD University of Asmara and World Bank, **2002-2004**.
- Postgraduate Student Bursary, University of Natal, South Africa, **2003**.

### **TEACHING INTEREST**

- Business Statistics and All areas of Analytics, Business Forecasting, Methods of Data Analysis, Statistical Quality Control, Design of Experiments, and Statistical computing.

### **RESEARCH INTEREST**

- Analytics and Statistical modeling, Time Series Analysis (Business Forecasting), Design of Experiments, and Statistical Education.

### **PROFESSIONAL MEMBERSHIP**

- American Statistical Association (ASA), member.
- Business Analytics/Statistics Education Interest Group in the American Statistical Association, 2025-2026, Chair.