Ismael S Talke, PhD
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EDUCATION

Montana State University   **Bozeman, MT**
M.Sc. And PhD. In Statistics   **August 2012**

University of Kuwazulu-Natal,   **Pietermaritzburg, South Africa**
M.Sc. In Statistics, Cum Laude   **May 2004**

University of Asmara   **Asmara, Eritrea**
B.S. Major: Mathematics and Minor Statistics   **July 1998**

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.
  BUSOBA321: 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: Predictive Analytics for Specialized Master's in Analytics
  *Developed courses and materials.

- **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   **08/2014- 12/2018**
  - Courses Taught
  Business Statistics (ISA 205)
  Business Analytics (ISA 225)
  Business Forecasting (ISA 444)

- **Visiting Assistant Professor**, Department of Mathematics, Augsburg University, Minneapolis, MN,   **08/2012- 08/2014**
  - Courses Taught
  *Statistical Modeling (Math 394)
  Statistics and probability (Math 374)
  Biostatistics (Math 248)
  Introductory Statistics (Math 163)

Practical Application of Mathematics (Math 129).
 *Developed Statistical modeling (Math 394) class.
 - Assisting researchers and college community in designing, computing, and data analysis.
 - Department webpage editor.
 - Introduced the Statistical package R in all the Statistics class I taught.

- **Graduate Assistant (Instructor),** Montana State University, Bozeman, MT, **08/2007-08/2012**
- 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   **08/2008-06/2009**
- 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,   **05/ 2004-07/2007**
- Courses taught:
Multivariate Statistical Analysis (STAT422),
Time Series Analysis (STAT351)
Introduction to Statistics (STAT200)
Statistics Methods for Engineers (ELEN451)
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,   **05**/**2004-07/2007**
- 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   **09/2006-05/2007**
- 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)   **01/2003-03/2004**
 - 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**   **08/1998-11/2001**
- Taught Mathematics classes**: Algebra**, **Geometry**, and **business mathematics**.
- Data cleaning, organizing, summarizing and reporting statistical result.
- 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

- 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
- **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

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

RESEARCH INTEREST

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

PROFESSIONAL MEMBERSHIP

- American Statistical Association (ASA).