

# Awol Seid Ebrie, Ph.D.

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## Education

- Aug 2024 **Ph.D. in Industrial Data Science and Engineering**, Pukyong National University and Pusan National University, Busan, South Korea.
- Oct 2012 **M.Sc. in Biostatistics**, Jimma University, Jimma, Ethiopia.
- Aug 2008 **B.Sc. in Statistics**, University of Gondar, Gondar, Ethiopia.

## Experience

- Aug 2018 – Aug 2021 **Researcher and Lecturer**, Ethiopian Technical University, Addis Ababa, Ethiopia.
- Jan 2013 – May 2018 **Lecturer**, Haramaya University, Dire Dawa, Ethiopia.
- Nov 2010 – Jan 2013 **Assistant Lecturer**, Haramaya University, Dire Dawa, Ethiopia.
- Nov 2009 – Nov 2010 **Graduate Assistant II**, Haramaya University, Dire Dawa, Ethiopia.
- Nov 2008 – Nov 2009 **Graduate Assitant I**, Haramaya University, Dire Dawa, Ethiopia.

## Publications

### Journal Articles

- Ebrie, A.S.**, C. Paik, Y. Chung, and Y. Kim, “Deep contextual reinforcement learning for scalable power scheduling,” *Under Review in Applied Soft Computing*,
- Ebrie, A.S** and Y. Kim, “Reinforcement learning-based optimization for power scheduling with renewable energy connected grid,” *Renewable Energy*, vol. 230, 2024.
- Y. Effendi, A. Sofiah, N. Hidayat, **Ebrie, A.S**, and Z. Hamzah, “Predicting vulnerability for brain tumor: Data-driven approach utilizing machine learning,” *Indonesian Journal of Electrical Engineering and Computer Science*, vol. 35, no. 3, 2024.
- Ebrie, A.S.**, C. Paik, Y. Chung, and Y. Kim, “Reinforcement learning-based multi-objective optimization for generation scheduling in power systems,” *Systems*, vol. 12, no. 3, 2024.
- Ebrie, A.S** and Y. Kim, “A multi-agent simulation-based optimization package for power scheduling,” *Software Impacts*, vol. 19, 2024.
- Ebrie, A.S**, C. Paik, Y. Chung, and Y. Kim, “Environment-friendly power scheduling based on deep contextual reinforcement learning,” *Energies*, vol. 16, no. 16, p. 5920, 2023.
- D. Angassa, S. Solomon, and **Seid, A.**, “Factors associated with dyslipidemia and its prevalence among awash wine factory employees, addis ababa, ethiopia: A cross-sectional study,” *BMC Cardiovascular Disorders*, vol. 22, no. 1, p. 22, 2022.
- Ebrie, A.S** and Y. Kim, “Investigating market diffusion of electric vehicles with experimental design of agent-based modeling simulation,” *Systems*, vol. 10, no. 2, p. 28, 2022.
- Seid, A.**, “Multilevel modeling of the progression of HIV/AIDS disease among patients under haart treatment,” *Annals of Data Science*, vol. 2, no. 2, pp. 217–230, 2015.
- Seid, A.**, M. Getie, B. Birlie, and Y. Getachew, “Joint modeling of longitudinal CD4 cell counts and time-to-default from haart treatment: A comparison of separate and joint models,” *Electronic Journal of Applied Statistical Analysis*, vol. 7, no. 2, pp. 292–314, 2014.

## Conference Proceedings

- 1 **Ebrie, A.S**, C. Paik, Y. Chung, and Y. Kim, “Deep contextual reinforcement learning approach to economical and environmentally friendly power scheduling,” in *17th International Conference on Innovative Computing, Information and Control (ICICIC2023)*, Kumamoto, Japan, August 29 – 31, 2023.
- 2 **Ebrie, A.S**, C. Paik, Y. Chung, and Y. Kim, “Deep contextual reinforcement learning for solving unit commitment problem,” in *Korea Society of Industrial Science and Technology, and Korea Society of Business Administration Joint Spring Conference*, Jeju, South Korea, May 31 – June 03, 2023.
- 3 **Ebrie, A.S** and Y. Kim, “Agent-based modeling for market penetration of electric vehicles,” in *Korea Management Science Association and Korean Industrial Engineering Association Spring Joint Academic Conference*, Jeju, South Korea, June 01 – 04, 2022.
- 4 **Seid, A.**, M. Getie, B. Birlie, and Y. Getachew, “Joint modelling of longitudinal CD4 cell counts and time-to-default from highly active antiretroviral therapy (haart) treatment: A comparison of separate and joint models,” in *The 4th ISIBalo Young African Statisticians Conference (IYASC): Young African Statisticians Staking Their Claim in Unleashing the Power of Statistics in Exposing and Disposing of Inequality Post2015*, Pretoria, South Africa, July 31 – August 02, 2014.

## Projects Participated

- 📌 **Data Manager and Analyst**, *Tracer Study of Leather and Leather Products Technology, and Manufacturing Technology Graduates of Ethiopian Technical University*, World Bank and Ethiopian Technical University, Addis Ababa, Ethiopia, Aug 2020 – Jun 2021.
- 📌 **Researcher**, *The Socio-cultural and Economic Impacts of COVID-19 on the Society: The Case of Addis Ababa City Administration*, UNESCO and Ethiopian Technical University Addis Ababa, Ethiopia, Apr – Oct 2020.
- 📌 **Data Manager and Analyst**, *Training Needs Assessment of TVET Teachers and Leaders in Ethiopia*, UNESCO and Ethiopian Technical University Addis Ababa, Ethiopia, Sep 2019 – Sep 2020.
- 📌 **Statistician**, *Access to Legal Aid Project: National Free Legal Service Policy and Sustainability Options Study in Ethiopia*, Access to Legal Aid Project: National Free Legal Service Policy and Sustainability Options Study in Ethiopia, USAID and Haramaya University College of Law, Dire Dawa, Ethiopia, May – Nov 2017.

## Training Delivered

- 📌 **Quantitative Data Analysis Using the Statistical Software SPSS**, Federal Technical and Vocational Education and Training Institute, May 14 – 18, 2018, Addis Ababa, Ethiopia.
- 📌 **Statistical Modeling and Analysis Using Stata**, Haramaya University, Mar 21 – 23, 2017, Dire Dawa, Ethiopia.
- 📌 **Data Management and Basic Statistical Analysis Using Stata**, Haramaya University, Mar 14 – 18, 2017, Dire Dawa, Ethiopia.
- 📌 **Data Management and Descriptive Statistical Analysis Using MS Excel**, Haramaya University, Jan 20 – 22, 2017, Dire Dawa, Ethiopia.
- 📌 **Statistical Data Management Using Basic Computer Applications**, Haramaya University, Jun 18 – 20, 2015, Dire Dawa, Ethiopia.

## Training Delivered (continued)

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- **LaTeX Document Preparation System Using WinEdt**, Haramaya University, Jun 18 – 20, 2015, Dire Dawa, Ethiopia.
- **Longitudinal Data Analysis Using Stata**, Haramaya University, Nov 07 – 09, 2014, Dire Dawa, Ethiopia.
- **Statistical Data Management Using Stata**, Haramaya University, Aug 08 – 10, 2014, Dire Dawa, Ethiopia.
- **Basic Statistical Data Analysis Using Stata**, Haramaya University, Mar 15 – 20, 2014, Dire Dawa, Ethiopia.

## Courses Taught

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SPHM 5011	■	Advanced Biostatistics: 2019 – 2020
PhFe 7027	■	Data Management and Statistical Software: 2020
PUHE 6122	■	Biostatistics and Epidemiology: 2020 – 2021
Stat 201	■	Probability and Statistics for Engineers: 2020
CoTM 623	■	Statistics for Construction Management: 2019
Stat 2021	■	Statistical Computing I: 2017
Stat 276	■	Introduction to Probability: 2015 – 2016
Stat 3133	■	Introductory Multivariate Methods: 2013, 2016 – 2017
Stat 3082	■	Statistical Quality Control: 2013, 2015
Stat 3062	■	Categorical Data Analysis: 2010, 2014 – 2016
Stat 2023	■	Statistics and Probability: 2010, 2014 – 2015
Stat 477	■	Operations Research: 2010
Stat 2081	■	Introduction/Basic Statistics: 2009 – 2010, 2013 – 2018
Stat 0332	■	Introduction to Econometrics: 2009

## Technical Skills

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- Basic Microsoft Office: Word, Excell, Access, Power Point
- Data Management Applications: EpiInfo, CSPro, SurveyCTO
- Statistical Software: Stata, SAS, SPSS, WinBUGS, MLwiN
- Programming Languages: Python, R, NetLogo
- Databases: MySQL, PostgreSQL
- Data Science APIs: PyTorch, Statsmodels, Scikit-learn, SciPy
- LaTeX Document Preparation System: WinEdt, TeXstudio

## Miscellaneous

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### Awards Received

- **ChungHyoBeomSin Scholarship**, Busan, South Korea, Dec 21, 2022.

## Referees

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- **Professor Young–Jin Kim**, Pukyong National University, Busan, South Korea.  
✉ [youngk@pknu.ac.kr](mailto:youngk@pknu.ac.kr)
- **Dr. Belay Birlie**, Astellas Pharma Europe, London, United Kingdom.  
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