

Professional CV for Scholarship Applications

Basaznew Belew Melak

☐ Ethiopia | ☐ September 11, 1990 | ✉ basabelew@gmail.com | ☐ +251920393409

Professional Summary

Having taught mathematics for more than six years, this researcher and educator has a solid foundation in mathematical modeling, applied mathematics, and biomathematics. author of peer-reviewed publications with technical proficiency in Mathematica, LaTeX, MATLAB, and Python. demonstrated capacity to connect computer applications and theoretical mathematics to solve problems in the real world.

Research Focus

Seeking scholarships to advance expertise in:

- **Mathematical Modeling** (Epidemiology, Eco-Epidemiology)
 - **Stochastic Modeling & Applied Mathematics**
 - **Mathematical Physics & Statistical Modeling**
 - **Operational Research & Optimization Theory**
 - **Computational Mathematics** (Python, MATLAB)
 - **AI Development Mathematics**
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Education

MSc in Mathematical Modeling (GPA: 3.61, *Very Good Thesis*)

Woldia University | Jul 2016 – Oct 2020

Postgraduate Diploma in Teaching (PGDT)

Addis Ababa University | Jul 2014 – Jul 2016

BSc in Mathematics (GPA: 3.21)

Gondar University | Oct 2010 – Jul 2013

Secondary Education

Tilili Secondary and Preparatory School (Grades 11–12) | 2007–2011

Work Experience

Lecturer, Department of Mathematics

Mekdela Amba University | Jun 2020– Present

- Teach undergraduate mathematics courses.
- Mentor students in research projects.

Mathematics Teacher

T/haimanot Secondary, Damot Secondary, Abay Minch Preparatory Schools | 6 years

- Designed curriculum and lesson plans for grades 9–12.
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Technical Skills

- Programming: Python, MATLAB, Mathematica
 - Typesetting: LaTeX
 - OS: Linux, Windows
 - Data Analysis: Statistical Modeling
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Research & Publications

1. "Mathematical Modeling in Epidemiology"

DOI: [10.1155/2022/2776698](https://doi.org/10.1155/2022/2776698)

2. "Multiscale Dynamics in Eco-Epidemiology"

DOI: [10.3389/fams.2024.1360628](https://doi.org/10.3389/fams.2024.1360628)

3. "Applied Biomathematics"

DOI: [10.1142/S1793524524500517](https://doi.org/10.1142/S1793524524500517)

Academic Profiles:

- ORCID: [0000-0002-7047-5031](https://orcid.org/0000-0002-7047-5031)
- Google Scholar: [xaDs3U0AAAAJ](https://scholar.google.com/citations?user=xaDs3U0AAAAJ)

Certifications & Achievements

- Peer Reviewer for International Journals
- Conference Speaker on Mathematical Modeling
- Certifications in Software Applications (Linux, MATLAB)

Language Proficiency

Language	Writing	Listening	Reading	Speaking
Amharic	Excellent	Excellent	Excellent	Excellent
English	Excellent	Excellent	Excellent	Very Good

References

1. **Dr. Dawit Melese** (Associate Professor, Bahir Dar University)
☎ +259121599667 | ✉ dawitmp3@gmail.com
 2. **Dr. Legesse Lemecha** (Associate Professor, Adama Science & Technology University)
☎ +251937894576 | ✉ legesse.lemecha@astu.edu.et
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