

CURRICULUM VITAE (CV)

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CURRICULUM VITAE

Personal information

Full name Mussie Fessehaye Gebregiorgis
Gender Male
Date of birth June 10, 1974
Marital Status Married
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Education

Title of qualification awarded PhD
Year 2010 – 2018
Principal subjects Fog as a natural resource in the eastern escarpment of Eritrea
Name of University University of Bern, Switzerland

Title of qualification awarded MSc
Year 2001 – 2003
Principal subjects Agricultural Water Management using agro-meteorological instrumentation
Name of University School of Agricultural, Earth and Environmental Sciences, University of Natal, Pietermaritzburg, South Africa

Title of qualification awarded BSc
Year 1992 – 1997
Principal subjects Soil and Water Conservation
Name of University University of Asmara, Eritrea

Work experiences

Position held Environmental Superintendent
Year Dec., 2011 – 2019
Duties Responsible for coordinating all the environmental programs that collect baseline data for preparation and implementation of Social and Environmental Impact Assessment (SEIA) and Social and Environmental Management Plans (SEMP).
Name and address of employer Asmara Mining Share Company (Ex-Sunridge Gold), Eritrea
Type of business Exploration and mining company

Position held Water Management Expert
Year Jan., 2010 – Nov., 2011
Duties Engaged in different developmental projects nationwide as water management expert particularly in the strategic dams built for both domestic and agricultural developments.
Name and address of employer Ministry of National Development, Eritrea
Type of business Government Ministry

Position held	<u>Program Developer and Manager</u>
Year	Dec., 2003 – Nov., 2009
Duties	Responsible for development and overall planning, conducting, monitoring and reporting of food security and water supply projects that have been implemented in different parts of the country through the funds of mainly European Commission (EC), USAID, USDA, Swiss and Germany agencies.
Name and address of employer	Vision Eritrea, Eritrea
Type of business	Non-Governmental Organization, Eritrea
Position held	<u>Irrigation Expert</u>
Year	Apr., 1998 – Mar., 2001
Duties	Involved in designing and supervision of different developmental and conservation projects particularly on irrigation implementation schemes that mainly involve diversion structures and water distribution systems for extensive farming systems.
Name and address of employer	Ministry of Agriculture, Eritrea
Type of business	Government Ministry
Published scientific journals	<ol style="list-style-type: none"> 1) Fessehaye M., & Savage M.J. (2006). Field, laboratory and estimated soil-water content limits. <i>Water SA</i> Vol. 32 No. 2. 2) Fessehaye M., & Savage M.J. (2006). Determination of the timing and amount of irrigation of three winter cover crops with the use of dielectric constant and capacitance soil water content profile methods. <i>S. Afr. J. Plant Soil</i> 2006, Vol. 23 No 3. 3) Fessehaye M., Tekeste T., Negusse E., Arefaine A., & Gherezghiher T. (2006). "Impact of Integrated Food Security Project Implemented in Northern Red Sea Zone, Eritrea" Presented on workshop organized by the Association of Eritrean in Agricultural Sciences March 03, Asmara, Eritrea. 4) Fessehaye M., Gherezghiher T., Abdul-Wahab S.A., Savage M.J., Kohler T., Hurni H. (2006). Fog-water Collection for Community Use. <i>Renewable and Sustainable Energy Reviews</i> (29): 52–62. 5) Fessehaye M., Abdul-Wahab S.A., Savage M.J., Kohler T., Gherezghiher T., & Hurni H. (2012). Poster: Testing fog-water collection along the Eastern Escarpment of Eritrea. Conference: 3rd International Conference on Research for Development (ICRD 2012) At: University of Bern, Switzerland. 6) Klemm O., Schemenauer R.S., Lummerich A., Cereceda P., Marzol V., Corell D., van Heerden J., Reinhard D., Gherezghiher T., Olivier J, Osses P., Sarsour J., Frost E., Estrela M.J, Valiente J.A, Fessehaye M. (2012). Fog as a Fresh water Resource: Overview and Perspectives. <i>AMBIO</i> (41): 221–234. 7) Fessehaye M., Abdul-Wahab S.A., Savage M.J., Kohler T., & Tesfay S. (2015). The Potential for Scaling Up a Fog Collection System on the Eastern Escarpment of Eritrea. <i>Mountain Research and Development</i> 35(4): 365-373.

- 8) **Fessehaye M.**, Sabah A. Abdul-Wahab S.A., Michael J. Savage M.J., Kohler T., Gherezghiher T. & Hurni H. (2017). Assessment of fog-water collection on the eastern escarpment of Eritrea. *Water Int.* (42): 1022–1036.
- 9) **Fessehaye M.**, Yuri Brugnara Y., Savage M.J., & Brönnimann S. (2018). Air temperature and precipitation variability and extremes over the central highlands of Eritrea: 1914 – 2015. Under review by *International Journal of Climatology*.
- 10) Abdul-Wahaba S.A., **Fessehaye M.**, Yetilmezsoyc K., Al-Ghafira A., Al-Barashdia A., Al-Hajria N., Salim Al-Bulushia S. (2018). Optimization of an inverted multi-stage double slope solar still: An environmentally friendly system for seawater purification. Under review by *Desalination and Water Treatment*.

Personal skills and competences

Mother tongue Tigrigna
Other language English and Amharic

Computer skills and competences All Microsoft offices
Statistical programs (GenStat, SPSS)
Basic GIS programs (ArcView 3.2)

Driving licence Grade 3 (Car) and 1 (Motorcycle)

References

- 1) Prof. Dr. Stefan Brönnimann, University of Bern (Switzerland)
Email: stefan.broennimann@giub.unibe.ch
- 2) Prof. Hans Hurni, CDE University of Bern (Switzerland)
Email: Hans.Hurni@cde.unibe.ch
- 3) Dr. Thomas Kohler, CDE University of Bern (Switzerland)
Email: Thomas.Kohler@cde.unibe.ch
- 4) Prof. Michael Savage, University of KwaZulu-Natal (South Africa)
Email: savage@ukzn.ac.za