**ASEGDEW GASHAW MULAT**

**(PhD Researcher)**

*Addis Ababa University, AAiT, Civil and environmental Engineering*

[*gasegdew@yahoo.com*](mailto:gasegdew@yahoo.com)

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| **Place & Date of Birth** | February 1969, Ethiopia |
| **Address** | Addis Ababa University, AAiT, |
| **Key Qualification** | Water Resources Engineering, Irrigation Engineering, Agricultural Engineering, Hydrological modeling, Decision Support System, Drainage and Water Resources Systems, Climate Change Impact Assessment |
| **Undergoing PhD Thesis** | Water Resource Allocation Modeling Of Eastern Nile under Different Climate Change |

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| **EDUCATIONAL AND TRAINING BACKGROUND** | | |  |
| Studying PhD (Hydraulic Engineering) | Jan 2010-todate | Addis Ababa University | Ethiopia |
| MSc Irrigation Engineering | 2003 – 2006 | Alemaya University | Ethiopia |
| B.Sc. Agricultural Engineering | 1989 – 1994 | Alemaya University | Ethiopia |

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| **Short term Training** |
| * AutoCAD | |
| * GIS and Remote sensing | |
| * RiverWare | |
| * Ribasim | |
| * SWAT | |
| * Nile DSS | |

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| **POSITION** | DURATION | EMPLOYER |
| **Intern** | April 2012 to date | Eastern Nile Technical Regional Office (ENTRO), Ethiopia |
| **PhD Research** | September 2012 – to date | Addis Ababa University, Ethiopia |
| **Lecturer** | January 1996 to September 2012 | Bahir Dar University, Bahir Dar, Ethiopia |
| **Irrigation Engineer** | July1995 - January 1996 | Amhara Region Water Resource Bureau, Bahir Dar Ethiopia |
| **Soil and water conservation expert** | July 1995 – Sept. 1996 | Amhara Agricultural Bureau, Bahir Dar Ethiopia |

**Instructed several courses in Addis Ababa University (AAiT) and Bahir Dar University:**

* Irrigation design, Irrigation methods, hydraulic structures, surface and Ground Water Hydrology, drainage systems, water resources Planning and management, urban drainage

**IV. PUBLICATIONS AND REPORTS**

***Journal Papers***

1. **Asegdew Gashaw Mulat** and Semu Ayalew Moges, Filling Option Assessments for Proposed Reservoirs in Abbay (Upper Blue Nile) River Basin to Minimize Impacts on Energy Generation of Downstream Reservoirs, Open Journal of Renewable Energy and Sustainable Development, In Press.
2. **Asegdew Gashaw Mulat** and Semu Ayalew Moges , Assessment of the Impact of the Grand Ethiopian Renaissance Dam on the Performance of the High Aswan Dam (accepted)

***Book Chapters***

Asegdew G. Mulat, Semu A. Moges and Yosif Ibrahim (2014) Impact and Benefit Study of Grand Ethiopian Renaissance Dam (GERD) During Impounding and Operation Phases on Downstream Structures in the Eastern Nile- Nile River Basin: Eco hydrological Challenges, Climate Change and Hydro politics Editors (eds. Assefa M. Melesse, Wossenu Abtew, Shimelis Gebriye Setegn) springer.

**Reports**

* Eastern Nile Water Resource Modeling: Strategic Perspective and Options Assessment of Upper Blue Nile (Abbay) River Basin Cascades Development
* Eastern Nile Water Resource Modeling: Benefits and Impacts of Grand Ethiopian Renaissance Dam (GERD) and Upper Cascades in Abbay River for Eastern Nile

**V. TOOLS AND SKILLS**

* FORTRAN Programming
* GIS and Remote Sensing data processing Packages – ArcGIS, ARC VIEW, IDRISI, WINDISP4/IDA,
* SURFER,
* Mike basin/hydro, WEAP, SWAT, RiverWare, Ribasim,
* CROPWAT and CLIMWAT - for irrigation assessment and planning and accessing FAO database
* Statistical packages such as SPSS and Statistica
* Both Word and Worksheet processing software products of Microsoft products, Photoshop, etc

**VIII. REFERENCE**

Dr. Semu Ayalew

Assist professor, Department of Civil Engineering, AAiT,

Addis Ababa University

Email: [semu\_moges\_2000@yahoo.com](mailto:semu_moges_2000@yahoo.com)

Dr. Yosif Ibrahim, Eastern Nile Technical Regional Office (ENTRO)

Email: [Yibrahim@nilebasin.org](mailto:Yibrahim@nilebasin.org)