

Adane Mamuye

PHD

University of Gondar, Gondar, Ethiopia

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Education

University of Camerino, School of Science and Technology, Computer Science

Division

PHD, COMPUTER SCIENCE

Feb. 2014 - Jul. 2017

Camerino, Italy

July 25, 2017

University of Gondar

HIGHER DIPLOMA, PEDAGOGY

Gondar, Ethiopia

Oct. 2012 - July 2013

Addis Ababa University, School of Information Science

MASTER OF SCIENCE, INFORMATION SCIENCE

Addis Ababa, Ethiopia

Nov. 2009 - July 2011

Haramaya University, Department of Computer Science

BACHELOR OF SCIENCE, COMPUTER SCIENCE

Haramaya, Ethiopia

Nov. 2002 - July 2006

Work Experience

University of Gondar, Department of Computer Science

ASSISTANT PROFESSOR

- Delivering advanced courses for Computer Science, Information Systems and Data Science M.Sc students
- Supervising graduate students
- Participating in technology transfer projects and interdisciplinary researches

Gondar, Ethiopia

July 2017 - Present

eHealth Lab Ethiopia www.ehealthlab.org

DEPUTY DIRECTOR

- HealthLab Ethiopia is a Center of Excellence in Health Information System established to develop/adopt, evaluate, and support the implementation of innovative health information technologies in the health sector.

Gondar, Ethiopia

Nov 2017 - Present

eHealth Lab Ethiopia, CBMP

PROJECT MANAGER

- CBMP (Capacity Building and Mentorship Program) is a collaborative effort of the Ministry of Health and local universities, including University of Gondar, to create model health facilities and Woredas through improvements in data quality and use of health information for decision-making.

Gondar, Ethiopia

October 2017 - Present

University of Gondar, Department of Computer Science

HEAD OF THE DEPARTMENT

- Coordinating Bachelor and Master programs
- Supervising academic and administrative staffs

Gondar, Ethiopia

Nov 2011 to Jan. 2014

Research Interest

Machine Learning, Health Data Analytics, Computational Biology, Complex System Modeling, eHealth and mHealth

Skills

Computer Programming	C/C++, JAVA, C#
Statistical and Data Analysis	Python, R, MATLAB, graph-theoretical methods, topological data analysis, MapReduce, WEKA
Bioinformatics applications	BLAST, FASTA, R, PSI-BLAST, GBrowse, ACT, RNAstructure, ViennaRNA
Databases	NCBI, RNACentral, 5S rRNA
Languages	Amharic- mother tongue , English-fluent, Italiano-beginner

Honors

HONORS

- PhD Fellowship, Univeriyt of Camerino, Italy; focused on modeling RNA Secondary Structure using formal approaches

Fellowship

ASLP4

- Africa Science Leadership Programme (ASLP) creates a lasting network of science leaders on the continent, spanning not only across countries, but also across disciplinary boundaries

Seminars and Courses

Da. Re project, Italy

CERTIFICATE OF COMPLETION

- Introduction to Big Data

University of California, San Diego

CERTIFICATE OF COMPLETION

- Introduction to Big Data

Johns Hopkins Univeristy

COURSE COMPLETION

- Bioinformatics Methods I

University of Camerino, Italy

TRANSFERABLE SKILLS

- Intellectual/Industrial property: how to make use of intellectual property within scientific research
- Writing a grant proposal
- Verba Volant: how to be effective in communicating to diverse audiences
- Innovation Management: how to manage and develop innovative projects at industrial level
- Statistics and data Management

Elsevier Publishing Campus

CERTIFICATE OF COMPLETION

- Author Workshop

University of Gondar

CERTIFICATE OF COMPLETION

- Grant Development and Management

Reviewing Activities

CONFERENCE

- ICT for Development for Africa (ICT4DA)
- Reviewer committee of ICAST 2020
- Reviewer committee member of BICT 2015

Publications

JOURNAL

- Gashu, Kassahun Dessie, Fedlu Nurhussien, Adane Mamuye, Kassahun Alemu Gelaye, and Binyam Tilahun. "Developing and piloting TB medication and refilling reminder system in Ethiopia." *Studies in health technology and informatics* 270 (2020): 1251-1252.
- Mekonnen, Zeleke Abebaw, Fedlu Nurhussien Hussien, Binyam Tilahun, Kassahun Alemu Gelaye, and Adane Mamuye. Development of Automated Text—message Reminder System to Improve Uptake of Child Vaccination in Ethiopia. *Online Journal of Public Health Informatics* 11(2), 2019.
- Rahel Abiy, Kassahun Gashu, Tarekegn Asemaw, Mebratu Mitiku, Berhanu Fekadie, Zeleke Abebaw, Adane Mamuye, Ashenafi Tazebew, Alemayehu Teklu, Fedilu Nurhussien, Mihiretu Kebede, Fleur Fritz, Binyam Tilahun. A Comparison of Electronic Records to Paper Records in Antiretroviral Therapy Clinic in Ethiopia: What is Affecting the Quality of the Data? *OJPHI*. 10(2):e212, 2018.
- Adane L. Mamuye, Matteo Rucco, Luca Tesei, Emanuela Merelli. Persistent Homology Analysis of RNA. *Journal of Mol. Based Math. Bio.*, 4:14-25, 2016.

PROCEEDINGS

- Negashe, Girma, and Adane Mamuye. Modified Segmentation Algorithm for Recognition of Older Geez Scripts Written on Vellum. arXiv preprint arXiv:2006.00465 (2020).
- Shiferaw, Gebremichael, Adane Mamuye, and Marco Piangerelli. Stationary Wavelet Transform for Automatic Epileptic Seizure Detection. In *International Conference on Information and Communication Technology for Development for Africa*, pp. 38-45. Springer, Cham, 2019.
- Alehegn K., Adane M., Binyam T. Web Usage Characterization for System Performance Improvement. 1st EAI International Conference on ICT for Development for Africa, Springer, 2017.
- A. L. Mamuye, E. Merelli, L. Tesei. A Graph Grammar for Modeling RNA Folding. *Electr. Notes Theor. Comput. Sci.* 2nd Graphs as Models workshop (GaM 2016) EPTCS 231, 2016, pp. 31–41.
- Matteo Rucco, Adane Letta Mamuye, Marco Pangerelli, Michela Quadrini, Luca Tesei, Emanuela Merelli. Survey of TOPDRIM Applications of Topological Data Analysis. *Proceedings of the 2nd International Workshop on Knowledge Discovery on the WEB-KDWEB*, Cagliari, 2016.
- Adane Mamuye, Matteo Rucco. Persistent Homology on RNA Secondary Structure Space. *BICT'15 Proceedings of the 9th EAI International Conference on Bio-inspired Information and Communications Technologies (formerly BIONETICS)*, pp. 189–192, 2015.
- Adane Mamuye, Emanuela Merelli, Luca Tesei. Towards a Shape Language for Interpreting RNA Folding. *BICT'15 Proceedings of the 9th EAI International Conference on Bio-inspired Information and Communications Technologies (formerly BIONETICS)*, pp. 185–188, 2015.

References

- Prof. Emanuela Merelli, Professor of Computer Science at the School of Science and Technology, and Coordinator of the PhD in Computer Science at the International School of Advanced Studies, University of Camerion
E-mail: emanuela.merelli@unicam.it
- Dr. Binyam Tilahun, Associate Professor of Health Informatics, Vice President for Research and Community Service and Director-eHealth Lab Ethiopia, University of Gondar,
E-mail: Binyam.Chaklu@uog.edu.et