

# Guta Demisu Kebede

## Curriculum Vitae

Dilla, Ethiopia

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### Personal Information:

Name: **Guta Demisu Kebede**

Date of Birth: **May 22, 1993 GC**

Passport no: **EQ1788181**

Nationality: **Ethiopian**

Sex: **Male**

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Adress:

### Education

2017-2021 **MSc in Mathematics(Specialization:Numerical Analysis)**, Dilla University, Ethiopia.

Thesis: "Solving system of singularly perturbed convection-diffusion using non-standard finite difference scheme"

Supervisor: Dr. Wondwosen Gebeyaw Melesse

2012-2014 **BSc in Mathematics**, Hawassa University, Ethiopia.

Graduated with Great Distinction(3.73 GPA)

### International Mobility (Trainings, Conferences, and Virtual Events)

- Artificial Intelligence fundamental (certified On-line training)
- Data analysis Fundamental (Certified On-line training) and Android Developer Fundamentals (Certified On-line training)

### Research Interests

- Perturbation Theory
- Artificial Intelligence in Healthcare
- Machine Learning and Data Science

### Publications

- 1 Guta Demisu K, Co-authors. "A Fitted Numerical Approach for Singularly Perturbed Two-Parameter Parabolic Problem with Time Delay" Comput. Math. Methods, 2023, volume2023, pages 6496354:1-6496354:12.DOI: <https://doi.org/10.1155/2023/6496354>
- 2 Guta Demisu K, Co-authors. "a robust higher order fitted mesh numerical method for solving singularly perturbed parabolic reaction-diffusion problems," Result in Applied Mathematics, volume 20, November 2023, 100405.DOI:<https://doi.org/10.1016/j.rinam.2023.100405>
- 3 Guta Demisu K, Co-authors. "Third-degree B-spline collocation method for singularly perturbed time delay parabolic problem with two parameters" Frontiers in Applied Mathematics and Statistics, 2023, 9:1260651. DOI:<https://doi.org/10.3389/fams.2023.1260651>.

- 4 Guta Demisu K, Co-authors. "An Efficient Numerical Approach for Singularly Perturbed Time Delayed Parabolic Problems with Two-Parameters," BMC Research Notes (2024) 17:158.DOI:<https://doi.org/10.1186/s13104-024-06813-9>.
- 5 Guta Demisu K, Co-authors. "Fitted Mesh Numerical Method for two-parameter Singularly Perturbed Partial Differential Equations with Large Time Lag," Partial Differential Equations in Applied Mathematics, Elsevier , 11 (2024), 10844.DOI:<https://doi.org/10.1016/j.padiff.2024.100844>
- 6 Guta Demisu K, Co-authors. "Numerical Investigation of Singularly Perturbed Time Lag Parabolic Differential-Difference Equations" Heliyon CelPress, 11:1 (2025), e41215.DOI:<https://doi.org/10.1016/j.heliyon.2024.e41215>
- 7 Guta Demisu K, Co-authors. "A high-order numerical scheme for singularly perturbed parabolic time delay problem with two small parameters"Research in Mathematics, 12:1 (2025), 2463184.DOI: DOI: [10.1080/27684830.2025.246318](https://doi.org/10.1080/27684830.2025.246318).

## Technical Skills

- Programming** Introduction to Python and MATLAB, Computer literate (Ms word, Access, Excel, Powerpoint) and also have excellent ability on LaTex software.
- Special ability** Very good team spirit , capacity to meet deadline, ability to adapt any environment and able to perform well under pressure.
- Communication** Flexible and have good communication skills

## Academic Achievements

- 2021** Graduated with **Very Great Distinction**, Dilla University
- CGPA** I have been graduated with CGPA of **3.98** out of **4** in Masters.
- Thesis result** My Thesis result was "**Very Good!**"
- 2014** Graduated with **Great Distinction**, Hawassa University
- CGPA** I have been graduated with CGPA of **3.73** out of **4** Undergraduate.

## Teaching & Leadership

- 2021–now **Lecturer**, *Dilla University*, Course: Numerical Analysis, Applied mathematics, graded assignments, mentored student projects, Thought most of undergraduate course..
- 2015–2021 **Hightschool Mathematics teacher**, *Kebado secondary school*, Course: Mathematics Grade 9-12, Thought hightschool for 6 years.

## References

- Wondwosen Gebeyaw Melesse (PhD)**, Associate Professor in Dilla University, College of Natural and computational science, Department of Mathematics. Email: [gwondwosen12@gmail.com](mailto:gwondwosen12@gmail.com), [+251-911-556332](tel:+251-911-556332)
- Dejene Girma Dembele (PhD)**, Associate Professor in Dilla University, College of Natural and computational science, Department of Mathematics. Email: [dejene28@gmail.com](mailto:dejene28@gmail.com), [+251-913-819622](tel:+251-913-819622)
- Fasika Wondimu Gelu (PhD)**, Assistant Professor in Dilla University, College of Natural and computational science, Department of Mathematics. Email: [ruhamatadufasi22@gmail.com](mailto:ruhamatadufasi22@gmail.com), [+251-913-819622](tel:+251-913-819622)
- Asnake Muluye Bekele (PhD)**, Assistant Professor in Dilla University, College of Natural and Computational Science, Department of Mathematics. Email:[asnakemuluyebekele@gmail.com](mailto:asnakemuluyebekele@gmail.com), [+251-913-819622](tel:+251-913-819622)