
CURRICULUM VITAE

TEZERA TSEGAYE

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EDUCATION

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| 1992 | Ph.D. | Applied Physics, University of Aberdeen, UK <ul style="list-style-type: none">• UNDP Scholarship Recipient |
| 1984 | M.S. | Applies Physics, University of Aberdeen, UK <ul style="list-style-type: none">• British Council Scholarship Recipient |
| 1978 | B.S. | Mathematics, Addis Ababa University, Ethiopia
Minor: Physics |

ADDITIONAL QUALIFICATIONS

- Dec. 2014-Sept. 2015 **Graduate Certificate in Online College Teaching**, Graduate School of Education, Kaplan University
- January 2005: **Teaching Excellence Course Plus (TEC Plus)**: DeVry University, Atlanta, GA.
- 1995 **Senior Mathematics Additional Qualification course**, University of Toronto, Toronto, Canada

PROFESSIONAL EXPERIENCE

8/15/18 to present **Spelman College** *Atlanta, GA*
ADJUNCT PROFESSOR General Physics Recitation and Lab classes.

3/9/17 to 1/16/18 **Georgia Christian University** *Atlanta, GA*
ADJUNCT PROFESSOR

- Lectured College Algebra, Pre-calculus, Statistics, Calculus and Astronomy courses using Pearson's MyLab Online Educational System.

10/12/2016 to 1/8/2017 **Dogwood Tutoring & Test Prep** *Atlanta, GA.*
TUTOR
Tutored AP Calculus, AP physics, Precalculus and College Algebra courses

10/12/2015 to 3/23/2016 **Le Cordon Bleu** *Atlanta, GA.*
ADJUNCT PROFESSOR
Taught Culinary Mathematics Courses.

2003-2015 **Professor and Lead Faculty of Science and Mathematics**, Department of General Education, Bauder College, Atlanta, Georgia.
Instructed and coordinated undergraduate mathematics, statistics, environmental and physical science courses.

- 2004-2005 **Adjunct Professor**, DeVry University, Decatur, Georgia
Taught undergraduate applied physics course
- Summer 2003 **Instructor and Research Coordinator**, Morehouse College, Atlanta, Georgia.
Taught and coordinated basic research in general physics for Upward Bound Science and technology students.
- 1997-2003 **Associate Professor**, Morris Brown College, Atlanta, Ga
Lectured undergraduate mathematics and physics courses and conducted accompanying labs
- 1999-2003 **Director, Dual Degree Engineering Program**, Morris Brown College, Atlanta Georgia
Directed and coordinated the College's dual degree engineering program in collaboration with the Atlanta University Center Dual Degree Engineering Program (AUC DDEP). Advised DDEP students, established Morris Brown College DDEP Engineering club and created a data base for the program to improve communication. Represented the college on the regular monthly DDEP Advisory Committee meetings and the Annual Awards Banquet of the program. Due to the unfavorable situation the college was in, and as director of MBC DDEP, effectively facilitated the smooth transfer of students to other colleges and universities.
- 2000-2002 **Assistant Project Director**, Morris Brown College, Atlanta Georgia
Worked as Assistant Director of project titled "Minority Science & Engineering Improvement Program (MSEIP) on Technology Enhanced Education in Mathematics." Organized and coordinated the "pre-freshman Mathematics Academy, summer, 2002" and prepared the module for the academy on "Some applications of mathematics in Physics".
- 1997-2001 **Adjunct Professor**, Georgia Perimeter College, Clarkston, Georgia
Taught Mathematical Modeling, College Algebra, Pre-calculus, Calculus and Applied Calculus courses.
- 1996-1997 **Instructor**, York Memorial Collegiate Institute, City of York, Ontario, Canada
Taught Intermediate/Senior Level Mathematics Courses.
- 1992-1994 **Post-Doctoral Research Fellow**, University of Aberdeen, Aberdeen, Scotland and the International Crop Research Institute for the Semi-arid Tropics, ICRISAT, Hyderabad, India.
Carried out collaborative research with ICRISAT as a Post-doctoral research fellow on "Varietal Differences in Root Response of Sorghum and Chickpea to Mechanical Impedance during Establishment."
Designed and developed new research technique for studying the effect of soil mechanical impedance on plant root growth under realistic scenarios.
- 1991-1992 **Teaching and Research Assistant**: University of Aberdeen, Aberdeen, Scotland
Assisted in assessing and tutoring undergraduate students and supervised their research projects.
- 1984-1988 **Department Chair, Continuing Education Center Coordinator, Researcher, and Senior- Lecturer**, Alemaya University, Ethiopia
Provided academic and administrative leadership to the Department of Arts and Sciences. Coordinated the activities of the university's continuing education center and taught basic math and physics courses.

Conducted collaborative research with Agricultural Engineering department of the University.
Lectured and tutored undergraduate mathematics, applied physics, and engineering mechanics courses with accompanying labs. Compiled physical science lab manual.

1978-1982 **Lecturer**, Alemaya University, Ethiopia
Delivered lectures, seminars and tutorials on undergraduate and general physics courses.
Supervised laboratory activities for the physics courses.

SERVICES

2013-2015 **Online Grade Book Repository Coordinator**, Coordinated, supervised, and assisted General Education Faculty, in the timely entry of grades in the Kaplan's online grade book repository. Bauder College, Atlanta GA.

2010-2012 **Vice President of Faculty Senate**, Assumed the duties and responsibilities of the President in her absence. Served as Vice-President of the Executive Committee and supervised all faculty Senate elections. Bauder College, Atlanta Georgia

2005-2014 Served as member of **Curriculum, Library, Faculty Development and Promotion, and Graduation and Planning Committees**, Bauder College, Atlanta, Georgia

1997-2003 Served as member of **Academic Affairs, Policies and Procedures, Graduation, Technology, and Curriculum Committees**, Morris Brown College, Atlanta, Georgia

PUBLICATIONS

Refereed Journals

Tezera Tsegaye, Mullins, C. E. and Diggle, A. J. (1995). An experimental procedure for obtaining input parameters for the "ROOTMAP" root simulation program for peas (*Pisum Satvum L.*). *Plant and Soil*. 172, 1-16.

Tezera Tsegaye, Mullins, C. E. and Diggle, A. J. (1995). Modelling pea (*Pisum Satvum*) root growth in drying soil. A comparison between observations and model predictions. *New Phytologist*. 131, 179-189.

Tezera Tsegaye and Mullins, C. E. (1994). Effect of Mechanical Impedance on root growth and morphology of two varieties of peas (*Pisum Satvum*). *New Phytologist*. 126, 707-713.

Theses

Tezera Tsegaye, 1992. "Modelling the Effect of Variable Soil Impedance on Pea Root Growth." PhD. Thesis, University of Aberdeen, Scotland, UK.

Tezera Tsegaye, 1984. "Effects of soluble salts on some mechanical properties of Soils." Ms. Thesis, University of Aberdeen, Scotland, UK.

Refereed Conference Proceedings

Tezera Tsegaye and Mullins, C. E. (1991). Modeling peas (*Pisum Satvum*) root growth in compacted soil and the differences between varieties. *Proceedings of 12th International Soil and Tillage Research Organization Conference*. Ibadan, Nigeria.

Other Teaching materials

Tezera Tsegaye (2002). Mathematical Applications in Physics. Pre-Freshman Mathematics Academy. Mathematics Module II. Morris Brown College. Atlanta.

Tezera Tsegaye (1980). Laboratory Manual for General Physics, a Compilation. Alemaya University, Ethiopia

NATIONAL AND INTERNATIONAL CONFERENCES, SEMINARS, AND WORKSHOPS ATTENDED

December 11, 2014: “Teaching Techniques, Facilitation, and Active Learning.” Online seminar Kaplan Higher Education.

September 12, 2014: “Improving Classroom Attendance and Student Retention.” Online Seminar Kaplan Higher Education.

September 30, 2011: “Coaching for a Lifetime.” Bauder College, Atlanta, Georgia

June, 13-18, 2010: “Improving College Mathematics Teaching Through Faculty Development.” MAA Workshop, U.S. Military Academy, West Point, New York.

August 7-8, 2009: “PASCO’s Summer Institute training on Physics with Probe-ware.” University of Texas, Dallas, TX.

June 8, 2008, “Cengage Learning Technology Session.” Bauder College, Atlanta, GA.

October 21-22, 2002: U.S. Department of Education “Institutional Development and Undergraduate Education Services (IDUES)” Regional Meeting. Morehouse School of Medicine, Atlanta, GA.

September 14, 2002: Morris Brown College NSF/Tran STEM Project Workshop, the Atlanta Hilton, Atlanta GA.

July 7-8, 2002: “Training and Dissemination of Integrated Instructional Delivery Systems (IIDS).” Clark Atlanta University, Atlanta, GA.

June 2-21, 2002: “Introducing Science Faculty from Historically Black Colleges and University (HBCUs) to Materials Science and Engineering/National Science Foundation. University of Alabama, Tuscaloosa, AL.

May 2-5, 2002: “Excellence in Undergraduate Mathematics: Mathematics for the Nontraditional Major.” AMS-MER Workshop: Washington University, St. Louis, MO.

June 16-18, 2000: “Precalculus Reform (PCAL) Workshop.” U.S. Military Academy, West Point, New York.

June 3-7, 2000: “College Algebra Reform Workshop.” Clark Atlanta University, Atlanta, GA.

May, 1994: Presented a seminar on “Varietal Differences in Root Response of Sorghum and Chickpea to Mechanical Impedance during Establishment.” Patancheru, Andhra Pradesh, India.

April, 1992 Presented seminar on “Modelling root growth in soils with time varying mechanical impedance.” Annual Conference of the Society of Experimental Biologists. Lancaster, England, UK.

April 15-May 3, 1985: “College on Soil Physics.” International Center for Theoretical Physics, Miramare-Trieste, Italy.

PROFESSIONAL MEMBERSHIPS

1995-97 American Association for the Advancement of Science

2000-05 American Association of University Professors

1999-2004 American Mathematical Society- Mathematics and education Reform Forum (AMS-MER).

2009-present Mathematical Association of America