

CURRICULUM VITAE

FULL NAME: Comfort Manyame
DATE OF BIRTH: 03 December 1975
NATIONALITY: Zimbabwean

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SPECIALIZATION: Soil Science
Soil Water Management
Carbon Sequestration
Soil Fertility/Nutrient Management
Geographic Information Systems and Remote Sensing
GIS Modeling
Spatial Analysis
Land Use Change Analysis
Digital Image Processing and Analysis

EDUCATION:

2008 Certified as a GIS Professional (GISP) on 25 February, 2008.

2006 **Doctor of Philosophy** (Soil Science) - Texas A&M University.
Dissertation title - "*On-farm yield and water use response of Pearl Millet to different management practices in Niger*". My research focused on developing soil fertility and water management options for a semi-arid environment in Niger West Africa; GIS modeling of water use efficiency and crop yields under different management practices; Soil moisture content measurements using neutron scattering; Calculation and modeling of field water balance; Determination of soil hydraulic properties using pedotransfer functions; Field and laboratory soil physical and chemical characterization. Coursework specialized in GIS, Environmental Biophysics and Hydrology.

2006 **Graduate certificate** (GIS) - Spatial Sciences Lab, Texas A&M University, College Station

2003 **Master of Philosophy** (Soil Science) - University of Zimbabwe.
Thesis Title - "*Geographic Information Systems (GIS) as a tool for studying land use change and soil organic matter dynamics*"
My research was on GIS analysis of remotely sensed images for land clearance; production of land use change maps; GIS estimation of soil carbon sequestration in farmers' maize fields; and establishment of chronosequences of land clearance for a rural landscape in Zimbabwe using aerial photographs.

- 2001 **Certificate in Geo-Information Systems** – University of Lund, Sweden.
- 1999 **Bachelor of Science Agriculture Honors** (Soil Science) – University of Zimbabwe
- AWARDS:**
- 2007 Best Poster Award. ESRI Electric and Gas User Group (EGUG) Conference. 7-11 October, Nashville, TN, USA.
- 2003 - 2006 PhD Graduate Assistantship, Soil and Crop Sciences Department, Texas A&M University
- 2003 System for Analysis, Research and Training (START) grant to travel to Trieste, Italy (16-20 November) to present a poster entitled “Land use change and soil organic matter dynamics in two contrasting Zimbabwean soils”.
- 1999 - 2003 Rockefeller Foundation scholarship for Master of Philosophy degree at the University of Zimbabwe, Soil Science Department
- 1996 - 1999 Government of Zimbabwe Scholarship for Bachelor of Science degree at the University of Zimbabwe, Soil Science Department
- 1993 – 1994 Book Prizes for best Biology student at “Advanced Level” for 1993 and 1994, Ellis Robins Boys High School, Zimbabwe.

PUBLICATIONS AND CONFERENCE PROCEEDINGS:

1. Manyame, C (2008). Moving from a Simple to Enterprise Mapping System – A Migration Success Story. ESRI Energy Currents. p.11-12.
2. Manyame, C., Morgan, C.L., Heilman, J.L., Fatondji, D., Gerard, B., and Payne, W.A. (2007). Modeling hydraulic properties of sandy soils of Niger using pedotransfer functions. Geoderma. 141(3-4) 407-415.
3. Gérard B., D. Fatondji, C. Dandois, C. Manyame, C. Biielders. Toward farm specific recommendations for the use of mineral fertilizers in Sahelian crop-livestock systems. 2007. Paper presented at 16th International Symposium of the International Scientific Centre for Fertilizers (CIEC). 16-19 September 2007. Ghent, Belgium.
4. Manyame, C., Bethapudi D., and Kelton, K (2007). Lightning stroke density and outage events in Mid-South Synergy Service Territory. Poster presentation at ESRI Electric and Gas User Group (EGUG) Conference. 7-11 October, Nashville, TN, USA. **Best Poster Award**
5. Manyame, C., Bethapudi D., and Kelton, K (2007). Lightning stroke density in Mid-South Synergy Service Territory. Abstract and paper presentation at SWAAG/Mid-South ASPRS Meetings. 1-3 Nov Bryan, TX, USA.
6. Manyame, C (2006). On farm yield and water use response of pearl millet to different management practices in Niger. PhD, dissertation. Soil & Crop Sciences Department, Texas A&M University, College Station, Texas, USA.
7. Manyame, C. and W.A. Payne (2005). On-farm yield and water use response of pearl millet to different management practices in Niger. Agronomy Abstracts. American Society of Agronomy, Madison, Wisconsin.

8. Zingore S., Manyame, C., Nyamugafata, P and K.E. Giller (2005). Long-term changes in organic matter of woodland soils cleared for arable cropping in Zimbabwe. *European Journal of Soil Science*. 56 (6) 727-736.
9. Manyame, C., Zingore, S., Nyamugafata, P and K.E. Giller (2003). A GIS based study of land use change and soil organic matter dynamics in two contrasting soils of Zimbabwe. *International Young Scientists Global Change Conference Abstracts*, Trieste, Italy, 16-20 November, 2003.
10. Manyame, C. (2003) GIS as a tool for studying land use change and soil organic matter dynamics. Master of Philosophy Thesis. University of Zimbabwe.

COMPUTER PROFICIENCY:

1. GIS and Remote Sensing Software (ArcGIS 9.2; ENVI; IDRISI; Trimble Pathfinder Office; and ArcSDE)
2. Visual Basic and Python Programming (very basic)
3. MS Office Suite (Word, PowerPoint, Excel, Access, Publisher)

LANGUAGES:

1. English – Excellent written and spoken.

POSITIONS OF RESPONSIBILITY/WORK EXPERIENCE:

1. 2007 – Present: GIS Manager, Midsouth Synergy Electric Coop, Navasota Texas. Duties include building and maintenance of Electric and Water distribution Geodatabases, SQL Server (2005) and ArcSDE (9.2) Administration, and supervision of a GIS technician.
2. 2006 – 2007: GIS Analyst, Midsouth Synergy Electric Coop, Navasota Texas. Duties include building and maintenance of Electric and Water distribution Geodatabases, SQL Server (2005) and ArcSDE (9.2) Administration, and supervision of a GIS technician.
3. 2005 Fall Semester: Teaching Assistant – AGRO 105 (World Food and Fiber Crops), Texas A&M University, College Station. Taught two undergraduate lab sections comprising at least 12 students each, and graded their weekly lab reports/projects as well as the final projects.
4. 2005 Spring Semester: Teaching Assistant – AGRO 301 (Introduction to Soil Science), Texas A&M University, College Station. Taught two lab sections comprising at least 20 students each, set and graded their weekly lab quizzes.
5. 2002 Spring Semester: Part-time Lecturer, Bindura University of Science Education, Zimbabwe. “Geographic Information Systems and Remote sensing”, Bachelor of Environmental Science program. Set the syllabus, exams and graded exams.
6. 1997 – 1999: Student representative to the Faculty of Agriculture Board, University of Zimbabwe
7. 1997 – 1999: Soil Science student representative, University of Zimbabwe
8. 1997 – 1999: National Director, International Association of Agricultural Students (IAAS). <http://www.iaas.dk/>
9. 1997 – 1999: Founding Vice President, University of Zimbabwe Agricultural Students Association (UZASA).

10. 1997 – 2002: Zimbabwe Village Concept Project (VCP) member. A non-profit small scale income generating project initiated by Agricultural and Medical students from the University of Zimbabwe and Danish Universities.

<http://www.vcp.interconnection.org/>

ASSOCIATION MEMBERSHIPS:

1. Urban and Regional Information Systems Association
2. Geospatial Information and Technology Association