

Clarisse Kagoyire

Phone: (+250) 783 499 241 E-mail: kclarisse@gmail.com, c.kagoyire@ur.ac.rw

Education

PhD in Geo-Informatics (expected)

University of Twente, **Enschede** – The Netherlands
Faculty of ITC, Geo-Information Processing Department

Master of Science in Geo-Informatics (2007-2009)

International Institute for Geo-Information Science and Earth Observation (ITC),
Enschede – The Netherlands

Bachelor of Science with Distinction in Computer Science (2001-2005)

University of Rwanda, Huye - Rwanda

Competencies

(Selected computer skills)

Programming skills

- GIS programming with Python, VBA, JavaScript and Java, C++.
- Designing and programming for mobile GIS applications: JavaScript, Java
- Web GIS developer: PHP, Java, JavaScript, SQL, PL/SQL, XQuery, XML, HTML, CSS

GIS & Remote Sensing applications

- Mobile GIS data collection tools (ArcPad, ArcGIS for Windows Mobile)
- ArcGIS for desktop (ArcMap, ArcCatalog, Model Builder, Spatial Analyst, Network Analyst,...), ArcGIS for Server, ESRI Geoportal server
- Other: ERDAS Imagine, Envi, ILWIS, Quantum GIS, uDig, Google Earth & Maps, OpenLayers, MapServer, Geoserver, Geonetwork Opensource

Database management systems (spatial and non-spatial)

PostgreSQL/PostGIS, MySQL, MS SQL, ESRI ArcSDE, MonetDB/XQuery, MS Access.

Operating systems

Microsoft Windows, Linux.

Other

LaTeX (a document preparation system), MS Office, EndNote.

Professional Experience

A. Consultancies

- 1. 2014:** *GIS Consultant*, Development of a National Land Use Planning portal for Rwanda Natural Resources Authority, Department of Lands and Mapping.
- 2. 2009:** *GIS Consultant*, Development of the Rwanda Metadata Portal, a portal to spatial data and information (*Geoportal requirement analysis, design and development; deployment web mapping services*), *provision of technical support to plan/prepare the data survey and reporting*.
- 3. 2009:** *GIS Consultant*, Development of a spatial database for information on markets and trade-related activities: Rwanda Trade Map. Data collection preparation, data entry facilitation and reporting.

4. **2009:** *GIS Consultant*, Design and implementation of the Rwanda Science, Research Human and Equipment spatial database. Data collection preparation; Database design and implementation; data entry facilitation; geo-Web application development; reporting.

5. **2006 – 2007:** *Web programmer*, Design and development of the back-end (database) and front-end of a web-based application for managing the Codes and Laws of Rwanda.

B. Taught Professional Training Courses

1. Introduction to DBMS
2. Introduction to GIS and GPS
3. Introduction to Geographic Information Systems (GIS)
4. Advanced GIS and Web mapping &
5. Spatial databases

C. Research Projects

1. Healthy Futures research project. Health, environmental change and adaptive capacity; mapping, examining & anticipating future risks of water-related vector-borne diseases in eastern Africa. **(2010-2014)**. Project funded by European Union/FP7.

Role in the project: Geospatial data analyst working on the creation of an online project database of Disease information & Database construction. The main responsibilities consisted of carrying out a preliminary analysis, planning and providing guidance for the following tasks: Cleaning and uploading the data gathered in the created project database and undertaking a need assessment, and performing the necessary tasks to host the database of Healthy Futures project.

2. Participatory GIS for sustainable management of natural resources and food security in Africa: case study of forest resources management **(2010-2013)**.

Project funded by the International Development Research Centre (IDRC).

Main task: *To establish an architecture for natural resources management information system in order to ensure data interoperability. (Including designing and developing a spatial database for forests in the context of PGIS for Natural Resources Management).*

Work Record

1. Assistant Lecturer (2009 –Present)

At the Centre for GIS & Remote Sensing (CGIS)

College of Science and Technology - University of Rwanda (UR).

Tasks

Research projects related tasks: (Projects, next section)

1. Data management database development: database design and implementation, data integration within a distributed environment, data analysis, metadata production, data survey planning and preparation
2. Development of (geo)web-based information systems

3. Participate in project proposal writing and Reporting
4. Preparing, writing and publishing scientific papers

Teaching & Professional Training related tasks:

5. Development and teaching short courses (professional trainings)
6. Development and teaching regular courses on WAP and WML Script, Introduction to GIS, Advanced GIS and Cartography and Remote Sensing courses.

2. Web mapping Officer /Tutorial assistant (2006 - 2009)

At the Centre for GIS & Remote Sensing - National University of Rwanda (CGIS-NUR).

Tasks: web mapping activities; maintenance of the website of the Centre; involved in web applications development activities, assisted in managing existing datasets within the Centre.

3. Head of IT Department (March - Nov 2006)

The Registrar Office - National University of Rwanda

Main Tasks: Maintenance of the student information system; Production and distribution of students cards; PCs troubleshooting within Registrar office.

PART-TIME JOB:

4. Web Graphic Designer (2005) for Rwanda Development Gateway Group.

Tasks: Designing graphics and animation for the Web.

5. Distance-learning instructor/facilitator (August 2004 – April 2005)

The former African Virtual University (AVU), that was based in the Centre for Instructional Technology of the National University of Rwanda.

Tasks: Video-conferences facilitation for online courses: “Static and dynamic websites development”, and “Introduction to programming using Java (Basic)”

Conferences, Seminars and Workshops (selected)

AfricaGIS 2017 Conference on Geospatial and Statistical information imperatives for the ‘Africa We Want’, Addis Ababa - Ethiopia, 20th-24th-November, 2017.

The 11th AARSE International conference took place in Kampala, Uganda from 24th to 28th October 2016

Smart Rwanda days 2014 - “Digitizing Rwanda”, 2 days conference co-organised by the Ministry of Youth and ICT, Rwanda Development Board and Rwanda Utility Regulatory Authority, Kigali, Rwanda, 2nd -3rd Oct 2014.

AfricaGIS 2013 Conference & GSDI 14 World Conference, joint conference on Spatial Enablement in Support of Economic Development and Poverty Reduction, Addis Ababa - Ethiopia, 4th-8th November, 2013.

ACM SIGSPATIAL GIS 2012, the 20th ACM SIGSPATIAL International Conference on Advances in GIS (ACM SIGSPATIAL GIS 2012), California - USA, 6th-9th November, 2012.

Workshop on Opportunities & Challenges for a thriving Geo-ICT sector in Rwanda, Kigali – Rwanda, 6th-7th October, 2011.

AGILE 2011, the 14th AGILE International Conference on Geographic Information Science, Utrecht - The Netherlands, 18th-21st April, 2011.

GIScience 2010, the 6th International conference on Geographic Information Science, Zurich - Switzerland, 14th-17th September, 2010.

AfricaGIS 2009, International Conference on Geospatial Information and Sustainable Development in Africa: Facing Challenges of Global Change, Kampala - Uganda, 26th-30th October, 2009.

The 2nd International Scientific Research Conference, Huye - Rwanda, 19th-21st October, 2009.
Acacia Research and Learning Forum hosted by International Development Research Centre (IDRC), Dakar – Senegal, 5th-8th October, 2009.

IDRC-ACACIA workshops on Natural Resources Management and Information and Communication Technologies (ICTs) & Geo-Spatial Information System, Dakar – Sénégal, 12th-16th May, 2009.

LBS 2008, 5th International Symposium on LBS (Location-Based Services) & TeleCartography, Salzburg - Austria, 26th-28th November, 2008.

Publications

Kagoyire, C. and de By, R.A. (2013) Resource - constrained agriculture in developing countries and where Geo-ICT can help. In: Spatial enablement in support of economic development and poverty reduction / ed. by H. Onsrud and A. Rajabifard. Needham: GSDI Association Press, 2013. 300 p. ISBN: 978-0-9852444-2-2. pp. 191-206.

Kagoyire, C. and de By, R.A. (2012) Models for Professional Cyclic Activities in VGI with a Case in Coffee Farming. In: Proceedings of First ACM SIGSPATIAL International Workshop on Crowdsourced and Volunteered Geographic Information. Redondo Beach, California, USA. ISBN: 978-1-4503-1694-1. pp. 70-76.

Kagoyire, C (2011) Web geoprocessing services on GML with a fast XML database. Rwanda Journal, Vol.20, Series C: Mathematical Sciences, Engineering and Technology.

Akinyemi, O.F. and Kagoyire, C. (2010) The Rwanda Metadata Portal: A Web Catalogue Service. In: International Journal of Spatial Data Infrastructures, Vol.5, pp 382 – 401.

Professional Trainings *(selected)*

- Vespucci Summer Institute on GI Science, Florence, Italy (2011)
- SERVIR-Africa Regional training on “Web publishing and spatial data management”, Nairobi, Kenya (2009).
- Google Earth Outreach Trainers Workshop at The AfricaGIS Conference , Uganda (2009).
- Dynamic Websites and Content Management Systems, Huye, Rwanda (2004).

Awards, fellowships and grants

- Google travel grant Award, ACMGIS 2012 Google Travel Grants for International Students (5 winners among 38 applicants), 2012.
- Peter A. Burroughs Award, Best project at the Vespucci Summer Institute on GI Science, 2011.
- PhD fellowship, by the Netherlands Fellowship Programmes (NUFFIC), 2011.
- Two travel grants, by the International Development Research Center, 2009.
- Travel grant, by the Regional Center for Mapping of Resources for Development, 2009.

Professional memberships

- Association for Computing Machinery (ACM)
- The International Association for Mathematical Geosciences (IAMG)
- EIS-Africa (A network for the co-operative management of Environmental and geoSpatial Information in Africa)
- Geographic Information Knowledge Network (GIK Network)
- The International Geospatial Society (IGS)

Languages

- Kinyarwanda (native)

- English & French (speak fluently, read/write with high proficiency)
- Swahili (basic knowledge: speak, read and write)

I certify that all information stated in this curriculum vitae is true and complete to the best of my knowledge.

Date, 8 March 2018