

## MICHAEL OGBE

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 DATE OF BIRTH: 01-AUG-1987. CIVIL STATUS: Married



### EXECUTIVE SUMMARY

A Geoinformation scientist currently exploring the application of Spatial Crowdsourcing (SC) in the management of natural (petroleum) resource revenue – for the promotion of transparency and accountability – in my PhD research. With over 10 years' academic and practical experience in the fields of Geographic Information Science and Remote Sensing (GIS & RS), my interests cut across Geographic Information Systems, Natural Resources/Environmental Management, Renewable Energies, Geoinformation Analyses, Remote Sensing, Data Science, Quantitative, Qualitative and Social Science Research Techniques.

### HIGHER EDUCATION

#### **PhD in GIS and Natural Resource Management**

Norwegian University of Science and Technology (NTNU), Trondheim - Norway [2018 – 2022]

#### **MPhil in Development Studies, specializing in Geography**

Norwegian University of Science and Technology (NTNU), Trondheim - Norway [2013 – 2015]

#### **BA (Hons) in Geography and Resource Development - FIRST CLASS (HONS)**

University of Ghana, Legon Accra - Ghana [2004 – 2008]

### PERSONAL STRENGTHS

- ✚ Good communication skills: both written and spoken.
- ✚ Global mindset with the ability to perform in a diverse environment.
- ✚ Team player with good leadership qualities.
- ✚ Creative, dynamic, self-motivating and hard working.
- ✚ Positive, values and ethically minded.
- ✚ Capable of working under little or no supervision and meeting deadlines.

### SPECIAL COMPUTER SKILLS (very conversant with the following)

- ✚ Mapping (ArcGIS Pro, ArcMap, QGIS, ArcGIS Online, GIS Cloud, ArcView, Other ESRI Packages)
- ✚ Programming (R and Python)
- ✚ Statistics (Stata & SPSS)
- ✚ Graphic Designing (Corel Draw, Adobe Illustrator, InDesign, Photoshop)
- ✚ Video Editing (Camtasia, Blender, Lightworks, HitFilm, Openshot, Corel VideoStudio Pro)
- ✚ Ms Office Suite (Word, Access, PowerPoint, Excel)

### LANGUAGE COMPETENCE

- ✚ English – Proficient
- ✚ Bokmål – Intermediate

## TEACHING EXPERIENCE AT THE DEPARTMENT OF GEOGRAPHY, NTNU, TRONDHEIM, NORWAY

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### 1. COURSE COORDINATOR

**AUTUM 2021**

GEOG3523 - GIS Data Capture and Mapping

TASK: To coordinate and lecture this methodology course which covers digital map production from data capture to finished web-GIS or hardcopy. The students will get an understanding of the whole map production workflow, including database design, data capture using remote sensing data and field-based GIS digitization.

### 2. TEACHER

**2018 - 2020**

GEOG3523 - GIS Data Capture and Mapping

TOPICS: Spatial data modelling, Remote sensing data analyse, Spatial Crowdsourcing, Digital cartography.

### 3. TEACHER

**2018 - 2020**

GEOG8523 - GIS Data Capture and Mapping 2

TOPICS: Topographic and spatial thematic data capture and processing.

### 4. TEACHER

**2018 - 2020**

GEOG3527 - GIS Tools for Climate Change Studies

TOPICS: Visualisation of environmental hazards, Mapping of renewable energy resources, Participatory mapping methodologies.

### 5. TEACHER

**2018 - 2020**

GEOG1012 – Introduction to Geographic Information Systems (GIS)

TOPICS: Representation of the world, Georeferencing, Characteristics of geographic data, Data structures for spatial data, Topology, Map design and Basic GIS functions.

### 6. TEACHING ASSISTANT

**JAN - JUL 2015**

Held tutorial classes and ran lab exercises for the students enrolled on these two courses:

- GEOG 3523/8523
- GEOG 3526 & GEOG3527

## RECENT ACADEMIC WORKS

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Ogbe, Michael, & Maconachie, Roy. (Working manuscript). Opinion mining on petroleum revenue-funded projects in Ghana.

Ogbe, Michael. (Under Review). Natural language processing of spatially crowdsourced data in petroleum revenue management. *GeoJournal*.









Ogbe, Michael, Rød, Jan Ketil, & Harvolsen, Thomas. (2021). Opinions of Ghanaians on the management of petroleum revenue in Ghana. *African Geographical Review*.  
<https://doi.org/10.1080/19376812.2021.2007410>

Ampim, Peter A. Y., Ogbe, Michael, Obeng, Eric, Akley, Edwin K., & MacCarthy, Dilys S. (2021). Land Cover Changes in Ghana over the Past 24 Years. *Sustainability*. <https://doi.org/10.3390/su13094951>

Ogbe, Michael, & Lujala, Päivi. (2021). Spatial crowdsourcing in natural resource revenue management. *Resources Policy*, 72, 102082. <https://doi.org/10.1016/j.resourpol.2021.102082>

## MAJOR RESEARCH PROJECTS

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-  **PREVENTING THE RESOURCE CURSE: SPATIAL CROWDSOURCING AND NATURAL RESOURCE REVENUE MANAGEMENT IN GHANA (Ongoing PhD project)**  
[PhD research to promote effective citizen participation in the management of natural resource revenues through the application of GIS.](#)
-  **LIVING UNDER THE ELECTRICITY LOAD SHEDDING IN GHANA; A CASE STUDY OF BUSINESSES IN ACCRA NEWTOWN AND RESIDENCES IN NORTH LEGON SUBURBS OF ACCRA, GHANA (2014-2015)**  
 Student Researcher: Solely responsible for [this complete graduate thesis](#) for my MPhil Degree at the Norwegian University of Science and Technology.
-  **MAPPING AND MONITORING SYSTEM FOR TOTAL GHANA LIMITED (2013)**  
 Project Leader at Maphouse Ghana Ltd.: Responsible to produce a GIS-driven harmonized databases/maps on all the Total Filling Stations in Ghana.
-  **URBAN CHURCH GROWTH INFORMATION SYSTEM FOR THE CHURCH OF PENTECOST AND LIGHTHOUSE CHAPEL INTERNATIONAL (2009-2013)**  
 Project Leader at Maphouse Ghana Ltd.: Responsible for designing, developing, and producing an integrated geo-information system on all the churches' facilities for an effective planning, monitoring and evaluation of the development of the churches.
-  **FARMER BASED ORGANIZATIONS' (FBOS) FACILITIES SURVEY OF GHANA INSTITUTE FOR SOCIAL, STATISTICAL AND ECONOMIC RESEARCH (ISSER) – UNIVERSITY OF GHANA, LEGON (2008-2009)**  
 GIS Analyst at CERSGIS: Responsible to produce a GIS-driven harmonized databases/maps on Geocoded FBOs Settlement Register, databases on Basic Facilities such as Markets, Meeting Places, Bus Stops, Processing and Storage Facilities for Planning, Monitoring and Evaluation.
-  **ESTABLISHING A MAPPING AND MONITORING SYSTEM FOR DEVELOPMENT ACTIVITIES IN GHANA (EMMSDAG): EU-GOG SUPPORTED PROJECT (2008-2009)**  
 GIS Analyst at CERSGIS: Responsible for the development of a Settlement Register using a GPS Mapping System.
-  **2008 UNDP HUMAN DEVELOPMENT REPORT FOR THE NORTHERN GHANA (2008-2009)**  
 GIS Analyst at CERSGIS: Responsible for the development of a baseline GIS datasets and multi-criteria spatial analysis for the 12 selected Districts.
-  **A STUDY OF MALARIA IN THE HOHOE MUNICIPALITY OF THE VOLTA REGION, GHANA (2007-2008)**  
 Student Researcher: Solely responsible for this complete undergraduate thesis for my BA (Hons) Degree at the University of Ghana.

## MAJOR AWARDED SCHOLARSHIPS

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- 1. RESEARCH STAY ABROAD** **AUTUMN 2020**  
 I received 41,800 NOK funding from the Faculty of Social and Educational, NTNU, for a research stay abroad at the Centre for Development Studies, at the University of Bath, UK.
- 2. RESEARCH SUPPORT GRANT** **AUTUMN 2019**  
 I received 30, 000 NOK funding from the Department of Geography, NTNU, for a research fieldwork in Ghana as part of my PhD studies.
- 3. NORWEGIAN QUOTA SCHEME** **AUG 2013 - JUN 2015**  
 I received the Quota Scheme for students from developing countries in the South and countries in the Western Balkans, Eastern Europe and in Central Asia full funding for my master's programme at NTNU.

## MAJOR LEADERSHIP POSITIONS

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- 1. SOCIAL COMMITTEE MEMBER** **SINCE OCT 2020**  
 STAFF - DEPARTMENT OF GEOGRAPHY  
 NORWEGIAN UNIVERSITY OF SCIENCE AND TECHNOLOGY (NTNU), TRONDHEIM
- 2. DEPUTY REPRESENTATIVE** **AUG 2019 - JUN 2020**  
 TEMPORARY ACADEMIC STAFF - DEPARTMENT OF GEOGRAPHY  
 NORWEGIAN UNIVERSITY OF SCIENCE AND TECHNOLOGY (NTNU), TRONDHEIM
- 3. PRESIDENT** **AUG 2014 - JUN 2015**  
 GHANA STUDENTS' ASSOCIATION, NTNU (NTNU-GH)  
 NORWEGIAN UNIVERSITY OF SCIENCE AND TECHNOLOGY (NTNU), TRONDHEIM
- 4. MASTER STUDENTS' REPRESENTATIVE** **AUG 2013 - JUN 2015**  
 DEPARTMENT OF GEOGRAPHY  
 NORWEGIAN UNIVERSITY OF SCIENCE AND TECHNOLOGY (NTNU), TRONDHEIM
- 5. REFERENCE STUDENT** **2013 - 2014**  
 NORWEGIAN UNIVERSITY OF SCIENCE AND TECHNOLOGY (NTNU-TRONDHEIM)  
 COURSES:
  -  Quantitative Methods (GEOG3006)
  -  GIS Data Capture and Mapping (GEOG3523)
  -  Methodology and the Research Process (GEOG3003)
  -  Theories of Development and Globalization (GEOG3053)
  -  Natural Resources Management (GEOG3030)
- 6. VICE CHAIRMAN** **AUG 2013 – JUL 2014**  
 ALBERT MAGNUS CATHOLIC STUDENT GROUP-TRONDHEIM
- 7. PRESIDENT** **APR 2007 - MAY 2008**  
 GEOGRAPHY AND RESOURCE DEVELOPMENT STUDENTS' ASSOCIATION (GRESA),  
 UNIVERSITY OF GHANA, ACCRA

## OTHER WORKING EXPERIENCE

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- 1. MANAGING DIRECTOR** **MAY 2016 - FEB 2018**  
OGBE CONSULT LIMITED, ACCRA - GHANA  
 Managing the general daily affairs of this Geospatial firm. OGBE Consult provides GEOSPATIAL solutions with expert data collection, management, and analysis of high-quality projects across several disciplines: from demography, transportation, epidemiology, environmental and energy management, to other developmental issues.
- 2. MANAGER** **APR 2010 - FEB 2018**  
M2KO2 SERVICES, ACCRA - GHANA  
 Managed this creative Graphic Design firm. M2KO2 Services provides high level corporate branding and general print (books, magazines, ceremonial crafts, and paraphernalia among others) solutions.
- 3. PROJECT MANAGER** **JUN 2017 – FEB 2018**  
MAPHOUSE GHANA LIMITED  
 Planned, executed, and managed a national intensive infrastructure mapping of all properties (like church, administrative, and commercial buildings; schools, hospitals, farms, and vacant land) belonging to The Church of Pentecost in Ghana.
- 4. GEO-MAPPER** **OCT 2016 – DEC 2017**  
GHANA INSTITUTE OF VITICULTURE & ENOLOGY RESEARCH (GIVER)  
 A Geospatial Specialist (Consultant) working on the National Native Grape/Berry Map of Ghana (NNGBMG) project for the Ghana Institute of Viticulture & Enology Research.
- 5. RESEARCH ASSISTANT (*MIGRANTS IN NORWAY*)** **JAN - FEB 2015**  
DEPARTMENT OF GEOGRAPHY – NTNU, TRONDHEIM - NORWAY  
 Conducted, recorded, and transcribed one-on-one interviews (8 respondents) and two focus group discussions (10 members in each group) of migrants in Trondheim. The project was to explore migrants' social and cultural encounters with the Norwegian society in Trondheim.
- 6. MASTER COURSES' EVALUATOR** **MAY 2014**  
NORAGRIC, NORWEGIAN UNIVERSITY OF LIFE SCIENCES (NMBU), ÅS – NORWAY  
 Employed by NORAGRIC to evaluate their 3 Masters programmes as part of a 6-member (Academicians and Scholars) panel headed by Professor Robert Nurrick of the University of Sussex.
- 7. EDITOR** **FEB 2014**  
DEPARTMENT OF GEOGRAPHY – NTNU, TRONDHEIM - NORWAY  
 Edited a fieldwork course (GEOG 3003) report for the department and published by the *Acta Geographica – Trondheim*.
- 8. GIS ANALYST/PROJECTS' MANAGER** **SEP 2009 – AUG 2013**  
MAPHOUSE GHANA LIMITED, ACCRA – GHANA  
 Entirely responsible for managing the company's projects.

**9. BUSINESS PLAN DEVELOPER****SEP 2010 – JUL 2013**XCHIP COMMUNICATIONS, ACCRA – GHANA

Responsible for planning a strategic business plan that established this printing press company alongside editing books and designing our various advertising paraphernalia.

**10. RESEARCH FIELD ENUMERATOR****AUG 2009 – SEP 2009**SCIENCE AND TECHNOLOGY POLICY RESEARCH INSTITUTE (CSIR-STEPRI), ACCRA – GHANA

Collected data from some sampled companies within the Tema Municipal Assembly aimed at reviewing and developing an African Science, Technology, and Innovation strategies for the production sectors.

**11. GIS DATA ANALYST****SEP 2008 – JUL 2009**CERSGIS, UNIVERSITY OF GHANA, LEGON, ACCRA - GHANA

Worked as a National Service Person at the Centre for Remote Sensing and GIS (CERSGIS)

MAIN DUTIES:

- ✚ Acquisition and processing of spatial data.
- ✚ Maintaining up-to-date records of data sources, metadata preparation, and remotely sensed data acquisition.
- ✚ Organizing data in spatial databases, generation of output maps and application interfaces

**12. RESEARCH ASSISTANT****MAR – MAY 2009**AFRICA SECURITY AND DIALOGUE RESEARCH – NORTH LEGON, ACCRA- GHANA

Helped in researching into the pressing and vital needs of the people of Sakumono village by administering research questionnaires in the Sakumono village in Tema Municipality of Ghana.

**13. BECE SCRIPT CHECKER****MAY – JUL 2007**WEST AFRICAN EXAMINATIONS COUNCIL (WAEC), ACCRA - GHANA

Cross-checked some of the marked papers of the 2007 Basic Education Certificate Examinations (BECE) for possible errors before the final grading of the candidates.

## MAJOR VOLUNTARY WORKS/EXTRACURRICULAR ACTIVITIES

- 1. INTERNATIONAL DIGITAL BUDDY** **AUG 2020 – MAY 2021**  
DEPARTMENT OF GEOGRAPHY – NTNU, TRONDHEIM - NORWAY  
 Volunteering as the “Digital Buddy” for all the newly admitted Globalisation and Sustainable Development students. In this Covid-19 pandemic era, these new students must participate in all activities online. I serve as their first contact person, helping them cope with all their practical and other academic related issues.
- 2. ISFiT 2015 WORKSHOP LEADER** **OCT 2014 - FEB 2015**  
ISFiT – NTNU, TRONDHEIM - NORWAY  
 Led the “GOVERNANCE workshop” of 25 students from 23 countries, across the 6 continents for a total period of 11 days during the International Students’ Festival in Trondheim (ISFiT) 2015. It was so awesome.
- 3. CONTACT PERSON** **AUG 2014**  
DEPARTMENT OF GEOGRAPHY – NTNU, TRONDHEIM - NORWAY  
 Volunteered as the contact person for the newly admitted students; to orient them around the Dragvoll campus and teach them the various systems and places for effective academic work.
- 4. MEMBER** **MAR 2018 – PRESENT**  
LAY READERS, ST. OLAV’S CATHEDRAL, TRONDHEIM - NORWAY  
 DUTIES: Taking Mass Readings (Bible readings) in the English Service.
- 5. MEMBER** **AUG 2016 – FEB 2018**  
MARRIAGE & FAMILY LIFE MINISTRY, ST. BARNABAS CATHOLIC CHURCH, HAATSO-AGBOGBA, ACCRA ARCHDIOCESE, GHANA  
 DUTIES: Counselling of potential couples before their Holy Matrimony in the Parish.
- 6. MEMBER** **JAN 2017 – FEB 2018**  
PARISH PASTORAL COUNCIL (PPC), ST. BARNABAS CATHOLIC CHURCH, HAATSO-AGBOGBA, ACCRA ARCHDIOCESE, GHANA  
 DUTIES: Representing the Liturgical Committee at all the meetings of the PPC, which is a consultative body of the Parish in the Diocese responsible for the deliberation of all the pastoral issues of the Parish.
- 7. MEMBER** **JAN 2017 – FEB 2018**  
BIBLICAL APOSTOLATE MINISTRY, MADINA DEANERY, ACCRA ARCHDIOCESE, GHANA  
 DUTIES: Representing the St. Barnabas Catholic Church Parish all the meetings, trainings, and activities of the Ministry in the Deanery of the Diocese, which is responsible for the biblical teaching, and evangelization of all the local communities in the Madina Deanery.
- 8. CHAIRMAN** **DEC 2016 – FEB 2018**  
LITURGICAL COMMITTEE, ST. BARNABAS CATHOLIC CHURCH, HAATSO-AGBOGBA, ACCRA ARCHDIOCESE, GHANA  
 DUTIES: Chairing of all meetings and activities of the Committee, which is responsible for the preparation, coordination, formation, and evaluation of the liturgy of the Parish.
- 9. PRESIDENT** **OCT 2016 – FEB 2018**  
LAY READERS & FACILITATORS, ST. BARNABAS CATHOLIC CHURCH, HAATSO-AGBOGBA, ACCRA ARCHDIOCESE, GHANA  
 DUTIES: Chairing of all meetings and recruiting and training members of the Society, which is responsible for the Mass Readings and Bible Studies in the Parish.



## MAJOR PROFESSIONAL TRAINING/WORKSHOP ATTENDED

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### ERSI MOOC

SINCE JAN 2021

I have been attending ESRI's Massive Open Online Courses (MOOC) since January 2021 to keep up with current knowledge within Geographic Information Techniques.

### DATA SCIENCE (HARVARDX'S ONLINE PROGRAM)

JAN – JUL 2020

The HarvardX Professional Course in Data Science, a series of courses that prepare one to do data analysis in R, from simple computations to machine learning.

### LEARNING ARCGIS DESKTOP (FOR ARCGIS 10.0) - ESRI USA (WEB COURSE) – 2015

ESRI Web Training Course taken in Trondheim, Norway.

### GEOGRAPHIC INFORMATION SYSTEMS – PREDEAL, ROMANIA – 2014

EGEA Annual Congress workshop conducted by ESRI Romania.

### MAPPING TIME IN GIS - ZDERAZ, CZECH REPUBLIC – 2014

20<sup>th</sup> EGEA Eastern Regional Congress workshop conducted by ESRI Czech Republic

### EARTH OBSERVATION AND GEO-INFORMATION FOR GOVERNANCE IN AFRICA – 2009

AARSE International Conference, Accra – Ghana

## MAJOR INTERNATIONAL CONFERENCE PRESENTATIONS

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### THE 8th NORDIC GEOGRAPHERS MEETING, TRONDHEIM - NORWAY JUN 2019

Did a 20 minutes' presentation with 5 minutes' discussions afterwards with the participants on the topic "Spatial Crowdsourcing in Natural Resource Revenue Management."

### EGEA GENERAL ANNUAL CONFERENCE, PREDEAL - ROMANIA SEP 2014

Did a 30 minutes' presentation with 15 minutes' discussions afterwards with the participants on the topic "A study of malaria in the Hohoe Municipality of the Volta Region, Ghana."

### EGEA EASTERN REGIONAL CONFERENCE, ZDERAZ – CZECH REPUBLIC APR 2014

Did a 20 minutes' presentation with 10 minutes' discussions afterwards with the participants on the topic "Forgiveness".

## REFEREES

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1. Professor Jan Ketil Rød (PhD Supervisor), Geografisk Institutt, NTNU, Trondheim, Norway. +47 99556432, [jan.rod@ntnu.no](mailto:jan.rod@ntnu.no)
2. Professor Päivi Lujala (PhD Co-supervisor), Geography Research Unit, University of Oulu, Oulu, Finland. +358 406757566, [paivi.lujala@oulu.fi](mailto:paivi.lujala@oulu.fi)
3. Professor Hans Ola Fredin, Geografisk Institutt (Department of Geoscience and Petroleum, from June 2021), NTNU, Trondheim, Norway. +47 40227859, [ola.fredin@ngu.no](mailto:ola.fredin@ngu.no)
4. Professor Ragnhild Lund (MPhil Supervisor), Geografisk Institutt, NTNU, Trondheim, Norway. +47 73591923, [ragnhild.lund@ntnu.no](mailto:ragnhild.lund@ntnu.no)