

# Osarieme Omokaro

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(516) 643-6143

## EDUCATION

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The University of North Carolina at Charlotte

**PhD, Information Technology**, expected December, 2013

**Master of Science, Software and Information Systems**, May 2009

**Graduate Certificate, Management Information Systems**, May 2009

**G.P.A.: 3.9/4.0**

**G.P.A.: 4.0/4.0**

Igbinedion University, Okada, Nigeria

**Bachelor of Science, Computer Science and Information Systems**, Nov. 2005

## PROFESSIONAL EXPERIENCE

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### Research Assistant

*Networking Research Lab, University of North Carolina-Charlotte (August 2009- present)*

Research Advisor: Dr. Jamie Payton

- Tailoring Incentives to Improve Data Contributions in Participatory Sensing Applications: Investigating the impact of context-aware incentive models on data quality and quantity in participatory sensing applications and currently exploring the integration of wireless sensor networks with participatory sensing

### Teaching Assistant

*ITCS/ITIS 6112/8112 Software System Design and Implementation (January 2012—Present)*

- Assist in teaching principles of designing, developing, and deploying software systems
- Tutoring and grading exams and assignments for 62 students over the course of three semesters

### IT Strategy Analyst

*Cummins Inc. (May 2011—August 2011)*

- Developed the first IT requirements gathering framework for Cummins in emerging markets, which is currently being used as a benchmark for Cummins mergers and acquisitions in Africa.
- Worked with business units and customers to understand their IT requirements on a global scale
- Created IT capability maps that effectively enhanced process redesign and improve operational efficiency
- Trained in Six Sigma, Engine Familiarization, Engine Performance Basics, and IT Project Management

### Team Lead

*STARS Alliance Leadership Corps (January 2010—January 2011)*

- Lead 13 students as they developed outreach activities, professional/technical development and recruiting events
- Promoted technical excellence, leadership and civic engagement through the use of computing and technical training workshops in middle schools

### Graduate Life Fellow

*Graduate school, University of North Carolina-Charlotte (August 2008—May 2009)*

- Engaged in outreach efforts to promote peer mentoring and created events to build graduate community
- Founded and executed a successful event to raise awareness on HIV/AIDS for World AIDS Day
- Co-hosted two events at the Second Harvest Food Bank to help sort and distribute food for local citizens in need

### Information Systems Analyst

*Exxon Mobil, Nigeria (February 2006—March 2007)*

- Installed, monitored, and maintained environmental monitoring sensors in ExxonMobil offshore vessels
- Implemented remedial fixes and procedures for end users

## SKILLS

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*Programming Skills:* Java, Php, html, android mobile development, web development (Drupal and Joomla), UX/UI design

*Software Tools:* Axure, Eclipse, Netbeans, LaTeX

## PROFESSIONAL AND COMMUNITY SERVICE

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### Apprenticeship Curriculum Designer and Volunteer Teacher for Citizen Schools (Spring 2012)

- Developed and implemented the Mobile Application Development for Science (MAD Science) curriculum to introduce middle school students in low-income neighborhoods to science, technology, engineering, and math through participatory sensing, using mobile phones and their embedded sensors to collect data for a purpose.

### Curriculum Designer and Teacher for Super (CS) Investigators Summer Camp (Summer 2012)

- Lead a summer camp of 20 kids to promote computational thinking through the use of participatory sensing.

### Mentor and Trainer One Laptop Per Child (OLPC) – Haiti

- Served as part of a learning development team to assist with the integration of XO Laptops into two schools in rural areas of the Republic of Haiti
- Provided teacher training and training documentation
- Served as an infield liaison to better facilitate needs analysis

### Web Developer - Drupal

- Implemented a specialized social network site to support the Cubic Meter Community in their goals of providing a fun, multi-disciplinary educational approach to promote environmental literacy
- The website educates citizens about the power of studying microhabitats and how it contributes to local and potentially global environmental issues

## PUBLICATIONS

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- **Omokaro, Osarieme**, A Framework to Promote User Engagement in Participatory Sensing Applications. The 14th ACM International Conference on Ubiquitous Computing (Ubicomp), Doctoral Colloquium, September 2012.
- Heggen, Scott, **Omokaro, Osarieme**, and Payton, Jamie, MAD Science: Increasing Engagement in STEM Education through Participatory Sensing. The Sixth International Conference on Mobile Ubiquitous Computing, Systems, Services and Technologies (UBICOMM), October 2012.
- Heggen, Scott, Adagale, Amul, **Omokaro, Osarieme**, and Payton, Jamie. Mobile Campaign Designer: A Tool for Creating Participatory Sensing Applications, Proceedings of the Tenth International Conference on Pervasive Computing (Pervasive), Demonstrations Track, March 2012.

## INVITED TALKS

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- Teaching CS Concepts in Haiti, panel presentation at the Students & Technology in Academia, Research & Service (STARS) Celebration, Hampton Virginia, 2012
- International Career Panel: Perspectives from Young Professionals sponsored by the Office of International Programs, International Studies Program and the World Affairs Council of Charlotte, 2009

## HONORS AND AWARDS

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- Google Women of Color Scholarship for Grace Hopper Celebration of Women in Computing (2012)
- NSF travel award for UbiComp conference, Pittsburgh (2012)
- NSF travel award for PerCom conference, Switzerland (2012)
- Mothering Across Continents(MAC) travel award to Haiti (2012)
- STARS Alliance travel award for STARS Celebration, Virginia (2012)
- Certificate of Recognition, for Outstanding Contribution to Graduate Life, UNC Charlotte ( 2009)
- Phi Beta Delta Honors Society for International Students (2008-present)

## INTERESTS AND ACTIVITIES

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- Board of Directors, Dave Omokaro Foundation
- Society of Women Engineers
- National Society of Black Engineers (NSBE)
- Computer Science Student Gets Google's Attention (2012); <http://cs.uncc.edu/node/1886>
- MAD Science Apprenticeship(2012); <http://www.citizenschools.org/apprenticeship/mad-science/>
- Laptops help Haitians toward their goals, Charlotte Observer ( 2012); [http://www.charlotteobserver.com/2012/03/30/3136600\\_laptops-help-haitians-toward-their.html#storylink=cpy](http://www.charlotteobserver.com/2012/03/30/3136600_laptops-help-haitians-toward-their.html#storylink=cpy)