DR. HARUNA ISAH

SOSCIP Postdoctoral Fellow and Associate Fellow of the UK Higher Education Academy Big-Data Analytics and Management Laboratory (BAM Lab) School of Computing, Queen's University, Kingston, ON, Canada

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RESEARCH INTEREST

My current work is focused on multilevel streaming data analytics with application to Web, media, IoT, and healthcare data processing for predictive analytics. My research interests include: Big Data Analytics and Infrastructure, Streaming Data Analytics, Natural Language Processing, Machine Learning, and Graph Analytics.

EDUCATION

University of Maiduguri, Nigeria AWARDS 2018 Finalist, SOSCIP Postdoctoral Fellows Lightner Round Competition, OARCC 2018 2013 – 2016 Commonwealth Scholarship, PhD Travel Grant, WAW2015 School on Complex Networks and Graph Models	2013 - 2017	PhD in Computing
University of Bradford, UK 2002 - 2008 B.Eng. Electrical and Electronics Engineering University of Maiduguri, Nigeria AWARDS 2018 Finalist, SOSCIP Postdoctoral Fellows Lightner Round Competition, OARCC 2018 Commonwealth Scholarship, PhD Travel Grant, WAW2015 School on Complex Networks and Graph Models		University of Bradford, UK
2002 - 2008 B.Eng. Electrical and Electronics Engineering University of Maiduguri, Nigeria AWARDS 2018 Finalist, SOSCIP Postdoctoral Fellows Lightner Round Competition, OARCC 2018 Commonwealth Scholarship, PhD Travel Grant, WAW2015 School on Complex Networks and Graph Models	2011 - 2012	MSc in Software Engineering
University of Maiduguri, Nigeria AWARDS 2018 Finalist, SOSCIP Postdoctoral Fellows Lightner Round Competition, OARCC 2018 2013 – 2016 Commonwealth Scholarship, PhD Travel Grant, WAW2015 School on Complex Networks and Graph Models		University of Bradford, UK
AWARDS 2018 Finalist, SOSCIP Postdoctoral Fellows Lightn Round Competition, OARCC 2018 2013 – 2016 Commonwealth Scholarship, PhD Travel Grant, WAW2015 School on Complex Networks and Graph Models	2002 - 2008	B.Eng. Electrical and Electronics Engineering
2018 Finalist, SOSCIP Postdoctoral Fellows Lightner Round Competition, OARCC 2018 2013 – 2016 Commonwealth Scholarship, PhD Travel Grant, WAW2015 School on Complex Networks and Graph Models		University of Maiduguri, Nigeria
Round Competition, OARCC 2018 2013 – 2016 Commonwealth Scholarship, PhD 2015 Travel Grant, WAW2015 School on Complex Networks and Graph Models	AWARDS	
2013 – 2016 Commonwealth Scholarship, PhD 2015 Travel Grant, WAW2015 School on Complex Networks and Graph Models	2018	Finalist, SOSCIP Postdoctoral Fellows Lightning
2015 Travel Grant, WAW2015 School on Complex Networks and Graph Models		Round Competition, OARCC 2018
Networks and Graph Models	2013 - 2016	Commonwealth Scholarship, PhD
1	2015	Travel Grant, WAW2015 School on Complex-
2011-2012 NITDEF Scholarship MSc		Networks and Graph Models
2011 2012 Scholarship, Wise.	2011-2012	NITDEF Scholarship, MSc.

ACADEMIC EXPERIENCE	
November 2017 –	SOSCIP Postdoctoral Fellow
Present	Queen's University, Kingston, ON, Canada
	Responsibilities: SOSCIP project, journal publication,
	conference/workshop organization and presentation,
	guiding researchers in BAM Lab.
	SOSCIP Project: Multilevel Streaming Data Analytics
	Infrastructure for Predictive Analytics
January 2015 -	Graduate Research Assistant
May 2017	University of Bradford, UK
	Responsibilities: advising postgraduate, undergraduate and
	interns with big data and machine learning projects.
July 2010 -	Graduate Teaching Assistant/Assistant Lecturer
October 2017	Federal University of Technology (FUT), Minna, Nigeria
	Responsibilities: teaching, advising, and supervising
	undergraduate students.
January 2010 -	Engineer II
July 2010	NASENI (PEEMADI), Okene, Nigeria

Responsibilities: Power and electronics prototype

development

PROFESSIONAL AFFILIATIONS AND SERVICES

2018	Co-Chair, Large-Scale Multilevel Streaming Data
Analytics	Workshop (CASCON'18)
2014 - 2017	Chair, University of Bradford ACM Student Chapter
	Responsibilities: responsible for leading the Chapter and
	managing its activities
2014 - 2015	PGR Student Representative
	Electrical Engineering and Computer Science
	Responsibilities: postgraduate research students'
	representative at Student Staff Liaison Committee (SSLC)
2015	Programme Committee Member
	The 5th Imperial College Computing Student Workshop
	(ICCSW'15)
	Responsibilities: University of Bradford ambassador
2014	Programme Committee Member
	14th UK Workshop on Computational Intelligence
	(UKCI2014)
	Responsibilities: Peer review and administration

PROFESSIONAL TRAININGS

2016	Diversity in the Workplace, University of Bradford, UK
2016	Learning & Teaching in Higher Education
	University of Bradford, UK
2015	WAW2015 School on Complex Networks and Graph
	Models, The Netherlands
2015	Machine Learning: A Computational Intelligence Approach
	(MLCI) Genova, Italy
2015	Marking, Assessment & Feedback, University of Bradford
2015	Starting to Teach, University of Bradford, UK
2015	Induction to Teaching, University of Bradford, UK
2015	International Winter School on Big Data Tarragona, Spain
2013	Module Road Map for Commonwealth PhD Scholars,
	Windsor, UK

TALKS AND PRESENTATIONS Short Talk: CASCON '18

2018	Short Talk; CASCON '18
2018	Post-doctoral Fellow Research Showcase;
	Queen's University
2018	SOSCIP Lightening Round Presentations, OARCC'18
2017	Social Media Mining for Crime Intelligence; University of
	Bradford SEEC Seminar
2015	Bipartite Network Model for Inferring Hidden Ties in Crime

	Data; ASONAM/FOSINT-SI
2015	Sentiment Analysis of User-Generated Contents for
	Pharmaceutical Product Safety; MLCI
2015	Research Opportunities and Challenges in Big Data:
	BigDat2015 Lessons
2015	Understanding ACM Student Member and Chapter Benefits
2015	Social Media Analysis for Combating Counterfeit Products;
	Progression to PhD
2014	Social Media Analysis for Product Safety Using Text
	Mining and Sentiment Analysis

PUBLICATIONS

Zulkernine, F., Isah, H., 2018 (accepted).

Large-Scale Multilevel Streaming Data Analytics, 28th Annual International Conference on Computer Science and Software Engineering, October 29 - 31, 2018, Hilton Toronto/Markham Suites Conference Center and Spa..

Mahfuz, S., Isah, H., Zulkernine, F., Nicholls, P., (2018) (accepted).

Detecting Irregular Patterns in IOT Streaming Data for Fall Detection, *IEEE Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON), British Columbia, Canada, IEEE.*

Kandhari, M., Isah, H., Zulkernine, F., 2018 (accepted).

A Voice Controlled E-Commerce Web Application, *IEEE Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON), British Columbia, Canada, IEEE.*

Leung, T., Zulkernine, F., Isah, H., 2018.

The use of Virtual Reality in Enhancing Interdisciplinary Research and Education, *Proc.* of the 12th International Multi-Conference on Society, Cybernetics and Informatics (IMSCI 2018), Orlando, FL, USA.

Isah, H. (2017).

Social Data Mining for Crime Intelligence: Contributions to Social Data Quality Assessment and Prediction Methods (Doctoral dissertation, University of Bradford).

Isah, H., Neagu, D., & Trundle, P. (2015).

Bipartite network model for inferring hidden ties in crime data. *In Proceedings of the 2015 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining* 2015 (pp. 994-1001). ACM.

Isah, H., Trundle, P., & Neagu, D. (2014).

Social media analysis for product safety using text mining and sentiment analysis. *In Computational Intelligence (UKCI), 2014 14th UK Workshop on (pp. 1-7).* IEEE.

Isah, H. (2012).

Full Data Controlled Web Based Feed Aggregator: Open Source and Feed Syndication in Research, Intelligence Gathering, Information Sharing and Business Enterprise. *LAP Lambert Academic Publishing*.

MANUSCRIPTS IN PREPARATION/SUBMITTED FOR REVIEW

Isah, H., Zulkernine, F., 2018 (submitted).

A scalable and robust framework for data stream ingestion, *IEEE International Conference on Big Data, Seattle, USA, IEEE.*

Shah, D., Isah, H., Zulkernine, F., 2018 (submitted).

Predicting the Effects of News Sentiments on the Stock Market", *The 2nd International Workshop on Big Data for Financial News and Data, Seattle, USA, IEEE.*

Isah H., Abughofa T., Mahfuz S., Ajerla D., and Zulkernine F., 2018 (submitted).

A Survey of Streaming Data Processing Engines, *IEEE Transactions on Data and Knowledge Engineering*.

Isah, H., Kedwan, F., Abughofa, T., Zulkernine, F. (in progress)

Connecting Big Data: A Survey of Large-Scale Graph Processing and Management", *ACM Survey Journal*

SKILLS

Programming: Python, Scala, Java, SPL, R

OS: Windows and Linux

Tools: Hadoop, Spark, Storm, Flink, Kafka, NiFi, Solr, Cassandra, IBM Watson, Maven, SBT, ZooKeeper, Tensorflow, Scikit Learn, NLTK, Anaconda, RStudio, Zeppelin, Jupyter, IntelliJ **Techniques:** Classification, Clustering, Topic Modelling, Sentiment Analysis, Deduplication