
SUMMARY

Award-winning PhD Candidate in Computing Science research and a Canadian Permanent Resident (PR) with diverse experiences in Machine Learning, Text Processing, Software Engineering, and Web Development.

EDUCATION

PhD Computing Science, *University of Alberta*, 2011 – Present

MSc Computing Science, *University of Alberta*, 2009 – 2011

BSc Computer Science, *American University of Nigeria*, 2005 – 2009

PROFESSIONAL EXPERIENCE

Research Assistant

University of Alberta, Canada, 2010 – Present

Research on credibility and privacy in health social media using text processing, algorithmics, and machine learning.

Machine Learning Consultant

Stream Technologies Inc., Canada, 2017 – Present

Technical consultation for machine learning and data science methodologies in large-scale predictive solutions.

Webmaster

Association for Computing Machinery, 2011 – Present

Responsible for maintenance of ACM SIGWEB's website, including development of thesis repository web application.

Data Science Intern

Resolver (formerly PPM 2000), Canada, 2013 – 2014

Developer for business intelligence and data mining tools for large-scale incident management software and database.

Programmer

HQ Group Inc., Canada, 2010 – 2015

Developer for mobile and web applications with C#, SQL Server, ASP, including image processing and OCR recognition.

Web Developer

Canadian Writing Research Collaboratory, Canada, 2013 – 2015

Programmer of web application for geo-spatial and temporal visualization of large-scale historical literary research.

Software Engineer

American University of Nigeria, 2005 – 2009

Developer of enterprise-wide software for academic & financial records management, decision support, and analytics.

AWARDS

Student Paper Award (Second Place), IMIA World Congress on Medical and Health Informatics, 2017

Best Paper Award (Co-Authored Paper), IEEE International Conference on Digital Economy, 2016

Contest Finalist, Healthcare Data Analytics Challenge, IEEE International Conference on Health Informatics, 2015

Professional Development Award, University of Alberta, Canada, 2011, 2013, 2015, 2017

Doctoral Recruitment Scholarship, University of Alberta, Canada, 2011 – 2012

Mary Louise Imrie Graduate Student Award, University of Alberta, Canada, 2010

TECHNICAL EXPERTISE

Programming Languages – Python, Java, C#, NET, PHP, C/C++, ASP

Machine Learning – TensorFlow, Keras, Theano, Gensim, Scikit-Learn

Software Engineering – OOP, AOP, UML, Agile/Scrum, MVC/HMVC

Web Technologies – HTML, CSS, JavaScript, AJAX, jQuery, Bootstrap

Databases – MySQL/MariaDB, MongoDB, Microsoft SQL Server

PEER-REVIEWED PUBLICATIONS

Iron Mask: Trust-Preserving Anonymity on the Face of Stigmatization in Social Networking Sites (2017)

Hamman Samuel, Osmar Zaiane. *In Proceedings of the International Conference on Trust, Privacy & Security in Digital Business (TrustBus)*. Lyon, France, August 2017.

PubMedReco: A PubMed Citations Recommender System for Real-Time Chat (2017 – Student Paper Award 2nd Place)

Hamman Samuel, Osmar Zaiane. *In Proceedings of the IMIA World Congress on Medical and Health Informatics (MedInfo)*. Hangzhou, China, August 2017.

Community Question Retrieval in Health Forums (2017)

Hamman Samuel, Mi-Young Kim, Sankalp Prabhakar, Mohamed Shazan Mohamed Jabbar, Osmar Zaiane. *In Proceedings of the IEEE-EMBS International Conference on Biomedical and Health Informatics (BHI)*. Orlando, Florida, USA, February 2017.

Supporting Digital Epidemiology in Alberta via Twitter Tracking (2017)

Hamman Samuel, Osmar Zaiane, Patricia Martz. *Presented at the IEEE-EMBS International Conference on Biomedical and Health Informatics (BHI)*. Orlando, Florida, USA, February 2017.

BubbleNet: An Innovative Exploratory Search and Summarization Interface with Applicability in Health Social Media (2016 – Best Paper Award)

Saeed Mohajeri, Hamman W. Samuel, Osmar R. Zaiane, Davood Rafiei. *In Proceedings of the International Conference on Digital Economy (ICDEc)*. Carthage, Tunisia, April 2016.

Golden Retriever: Question Retrieval System (2015)

Hamman W. Samuel, Mi-Young Kim, Sankalp Prabhakar, Mohamed Shazan Mohamed Jabbar. *In Proceedings of the IEEE International Conference on Healthcare Informatics (ICHI)*. Dallas, Texas, USA, October 2015.

A Repository of Codes of Ethics and Technical Standards in Health Informatics (2014)

Hamman W. Samuel, Osmar R. Zaiane. *Online Journal of Public Health Informatics (OJPHI)*. Vol. 6, No. 2, 2014. [Indexed in PubMed Central]

On Management of the Health Content Lifecycle (2013)

Hamman W. Samuel, Osmar R. Zaiane. *International Journal of Public Health Frontier (PHF)*. Vol. 2, No. 2, 2013.

Evidence-Based Trust Metrics in Web Services (2013)

Hamman W. Samuel. *In Proceedings of the International Conference on Computer Science and Software Engineering (CASCON)*. Markham, Ont., Canada, November 2013.

Findability in Health Information Websites (2012)

Hamman W. Samuel, Osmar R. Zaiane, Jane Robertson Zaiane. *In Proceedings of the IEEE-EMBS International Conference on Biomedical and Health Informatics (BHI)*. Hong Kong/Shenzhen, China, January 2012.

PSST... Privacy, Safety, Security, and Trust in Health Information Websites (2012)

Hamman W. Samuel, Osmar R. Zaiane. *In Proceedings of the IEEE-EMBS International Conference on Biomedical and Health Informatics (BHI)*. Hong Kong/Shenzhen, China, January 2012.

HCMS: Conceptual Description of a Health Content Management System (2011)

Hamman W. Samuel, Osmar R. Zaiane. *In Proceeding of the International Conference on Software Engineering (ICSE)*. Honolulu, Hawaii, USA, May 2011.

Fastest Association Rule Mining Algorithm Predictor (FARM-AP) (2011)

Metanat HooshSadat, Hamman W. Samuel, Sonal Patel, Osmar R. Zaiane. *In Proceedings of the Canadian Conference on Computer Science and Software Engineering (C3S2E)*. Montreal, Canada, May 2011.

Towards a Definition of Health Informatics Ethics (2010)

Hamman W. Samuel, Osmar R. Zaiane, Dick Sobsey. *In Proceeding of the ACM International Health Informatics Symposium (IHI)*. Arlington, Virginia, USA, November 2010.