

DR GEORGE R. OBAIDO

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South African Permanent Resident

BRIEF PROFILE

George Obaido completed his PhD¹ in Computer Science in 2020 at the [University of the Witwatersrand](#) in Johannesburg, South Africa, under the guidance of [Prof Abejide Ade-Ibijola](#) and [Dr Hima Vadapalli](#). He also obtained his MSc² in Computer Science from the same university. His research interests lie at the intersection of computational techniques to finding solutions to societal problems. George is an academic, researcher, full-stack developer, and a certified project manager with more than ten (10) years of combined professional experiences across a broad range of fields in the industry, academia, non-governmental and community-based organisations. He has practitioner-based proficiencies in qualitative research, project management, programme and product management, module and content development, and network analysis and troubleshooting.

RESEARCH INTERESTS

My research interests ranges from Theoretical Computer Science (Formal Languages and Automata) Applications, Synthesis of Things, Machine Learning and Deep Learning, Big Data, Data Science, Mobile Computing, Educational Games, Natural Language Processing, and Computer Science Education.

EDUCATION

University of the Witwatersrand, Johannesburg

July 2020

PhD in Computer Science

School of Computer Science and Applied Mathematics

Title: SQL Comprehension and Synthesis

Domain: Formal Language and Automata Theory (FLA), Natural Language Processing and Computer Science Education

Supervised by: [Prof Abejide Ade-Ibijola](#) and [Dr Hima Vadapalli](#)

Funded by: [CSIR](#)³ of South Africa

University of the Witwatersrand, Johannesburg

July 2017

MSc in Computer Science

School of Computer Science and Applied Mathematics

Title: Structural Analysis of Source Code Plagiarism using Graphs

Domain: Graph Theory Applications, Machine Learning and Computer Science Education

Supervised by: [Dr Pravesh Ranchod](#) and [Dr Richard Klein](#)

Funded by: CSIR of South Africa and the University of the Witwatersrand.

University of Abuja, Nigeria

December 2010

BSc(Hons)⁴ in Computer Science

Department of Mathematics, Statistics and Computer Science

¹Doctor of Philosophy

²Masters of Science

³The Council for Scientific and Industrial Research

⁴Bachelor of Science with Honours

Title: An Inventory Control System for a Small and Medium-Sized Enterprise

Supervised by: Prof Olumide Owolabi

PROFESSIONAL CERTIFICATION

ITIL⁵ v3 Certification (APMG-International, License: 02349481-01-D313)

PRINCE2⁶ Project Management Certification (APMG-International, License: 04198365-01-Q7DJ)

Scrum⁷ Master Certification (*in progress*)

EXPERIENCE

University of the Witwatersrand

Visiting Researcher

June 2020 - To date

Johannesburg, South Africa

- Undertake research as indicated by the research supervisor. Train MSc and Honours students with respect to survey design and the use of the L^AT_EX typesetting system.

University of Johannesburg

Visiting Researcher

June 2020 - To date

Johannesburg, South Africa

- Assist researcher advisor with various tasks, such as training of students on research design, and the use of L^AT_EX. Formulate hypothesis and undertake research as indicated by the research supervisor. Create research summaries in multiple formats, including spreadsheets, PowerPoint presentations, graphs and standard, written summaries.

Pearson

Module Lead

January 2020 - To date

Johannesburg, South Africa

- Responsible for creating learning and assessment materials for selected information technology modules, such as *Internet programming and e-commerce*, *project management*, *software engineering*, and *software project* taken at all 12 campuses across 7 provinces in South Africa. Provide guidance and assistants to lecturers throughout the assessment of the module. Liaise with programme leaders and other key stakeholders, as required.

Pearson

Lecturer, Information Technology

August 2016 - To date

Johannesburg, South Africa

- Lecture a number of modules and participate in departmental and faculty seminars aimed at sharing research outcomes and building interdisciplinary collaboration within and outside the department. Prepare scheme of work and maintain at-risk records, achievement and attendance.

Tribe Inc

Executive, Tech & Digital Learning (Pro-bono Consulting)

August 2019 - To date

Monrovia, Liberia

- Inspire and lead the development, communication, and implementation of a shared vision for the comprehensive use of technology to support a digital-age education that includes information literacy, programming, design thinking, and innovative learning environments for Liberian youths. Set KPIs (key performance indicators) for both long and short-term goals.

University of the Witwatersrand

Teaching Assistant & E-learning Support Consultant

January 2015 - June 2016

Johannesburg, South Africa

⁵Information Technology Infrastructure Library

⁶Projects IN Controlled Environments

⁷Scrum: a process framework used to manage product development and other knowledge work

- Directed and monitored the operation of computing laboratories including the following: determined hours; developed lab rules and ensured labs are properly staffed. Resolved and escalated users queries on SAKAI⁸, and Turnitin issues, and recommended solutions to issues reported.

MANCOSA⁹

Visiting Lecturer

May 2015 - To date

Johannesburg, South Africa

- Lectured and graded a number of modules in line with the moderation instructions. Moderated and completed rating reports for each marked exams to record what adjustments, if any, are recommended.

Intercomm Links

Project Manager(Part-time consulting)

March 2015 - To Sept 2018

Johannesburg, South Africa

- Managed a project life-cycle, created a work breakdown structure (WBS), and produced stage plans, highlight reports, risk logs, requests for change, etc

Apata Concepts

Web Developer (Part-time consulting)

February 2014 - July 2014

Johannesburg, Gauteng

- Full-stack web development, responsible for the development of websites (front-end and back-end) and the integration of APIs and several payment gateways.

Litediv Solutions

Project Manager

March 2013 - February 2015

Johannesburg, Gauteng

- Accountable for managing the delivery of critical projects, and for providing managerial support for all the projects conducted by the company. This includes creating a work breakdown structure (WBS), and produced stage plans, highlight reports, risk logs, requests for change, etc

Imperio International Limited

IT Operations Manager

January 2012 - March 2013

Lagos, Nigeria

- Responsible for the direction, planning, and management of all IT related issues. Managed Tally ERP¹⁰ related issues and recommended improvements to other technologies, such as the corporate LAN¹¹ and CCTV¹² camera output technology.

Studio Press (Nigeria) Limited

SAP ERP B1 Support Analyst and Network Engineer

December 2010 - January 2012

Lagos, Nigeria

- Directed, planned, and maintained SAP B1 ERP issues. Oversaw and resolved network issues and conflicts.

Hakonix Technologies

Web Developer

April 2009 - December 2010

Abuja, Nigeria

- Front-end web development with HTML, CSS and JavaScript, and back-end web development PHP and MySQL, and responsible for quality assurance of finished websites including the validation of web forms and links.

Guaranty Trust Bank

Intern

December 2008 - April 2009

Abuja, Nigeria

⁸SAKAI: The WITS Virtual Learning System

⁹Management College of South Africa

¹⁰Enterprise Resource Planning Software

¹¹Local Area Network

¹²Closed-circuit Television

- Responsible for resolving ATM¹³ dispense error, service customers request and ensure effective customer service, and load cash to machine.

RESEARCH AFFILIATIONS

Mobile Smart ICT4D¹⁴: CEMRI¹⁵ 2020 - date
Senior Fellow

I am a Senior Fellow under the Mobile Smart ICT4D group of the Centre for Multidisciplinary Research and Innovation.

Data Platform, and Data Economies and Data Governance: MD4SG¹⁶ 2019 - date
Co-lead

I am a member of the Data Visualisation, and Data Labour and Market of MD4SG group in collaboration with [Dr Rediet Abebe](#).

Formal Structures and Industrial Applications: University of Johannesburg 2017 - date
Member

I am an affiliated member of the Formal Structures, Algorithms, and Industrial Applications research cluster in collaboration with [Prof Abejide Ade-Ibijola](#).

VOLUNTEER ACTIVITIES

Data and Labour Market: MD4SG 2019
Collaborator

I co-lead the website development group at the [MD4SG group](#) with [Sritej Attaluri](#).

Data and Labour Market: MD4SG 2019
Collaborator

I am a volunteer for the Data and Labour Market [MD4SG group](#) founded by [Dr Rediet Abebe](#), and co-organised by [Swathi Sadagopan](#) and [Sara Kingsley](#) aimed at using techniques from algorithms, optimization, and mechanism design, along with insights from other disciplines to improve access to opportunity for historically underserved and disadvantaged communities.

Data Visualisation: MD4SG 2019
Data Analyst and Developer

I am also a volunteer for the Data Visualisation group of the MD4SG group. Together, we co-built the [MD4SG Data Browser](#), aimed at assisting researchers access many datasets for research projects.

Black in AI: Help and Resources (Web Developer Group) 2019
Developer

I co-built the [Help and Resources](#) web page alongside with [Kehinde Aruleba](#), [Flora Ponjou Tasse](#), [Esube Bekele](#) and [Xanda Schofield](#) for the Black in AI group, aimed at assisting members write quality research papers and use additional resources such as L^AT_EX.

¹³Automated Teller Machine

¹⁴Information and Communications Technologies for Development

¹⁵Centre for Multidisciplinary Research and Innovation

¹⁶Mechanism Design for Social Good

ACADEMIC ENGAGEMENTS

IEEE Transactions on Computational Social Systems 2021
Reviewer

I was appointed as a reviewer to adjudicate selected submissions to the IEEE Transactions on Computational Social Systems Journal.

Advances in Science, Technology and Engineering Systems Journal (ASTESJ) 2020
Reviewer

I was appointed as a reviewer to adjudicate submissions to the Advances in Science, Technology and Engineering Systems Journal (ASTESJ).

South African Computer Journal 2020
Reviewer

I was appointed as a reviewer to adjudicate submissions to the South African Computer Journal (SACJ).

University of Johannesburg 2020
Facilitator

I trained a number of UJ staff on the use of a Google cloud storage and collaboration service solution. Link: <https://www.youtube.com/watch?v=pk94GMKSO4E>.

MD4SG 2020
Reviewer

I was selected as a reviewer at the fourth workshop on Mechanism Design for Social Good, which will be held online (due to the COVID-19 pandemic) in the USA.

Black in AI¹⁷ 2020
Reviewer

I am appointed as a reviewer at the 4th Black in AI Virtual Workshop, co-located with the NeurIPS conference in Vancouver, Canada.

Black in AI 2019
Reviewer

I was appointed as a reviewer at the 3rd Black in AI Workshop, co-located with the NeurIPS conference in Vancouver, Canada.

ICICIS¹⁸ 2017
Reviewer

I was appointed as a reviewer at the 2nd Proceedings of the ICICIS Conference at Maslow, Sandton, Johannesburg, South Africa.

GRANTS AND FUNDING

The International Development Research Centre (IDRC) Canada 2021
Establishment of AI4D labs in Africa (in progress)
Value: \$1,000,000 (CAD)

¹⁷Black in AI conference, co-located with NeurIPS

¹⁸International Conference on the Internet, Cyber Security and Information Systems Conference

- The Artificial Intelligence for Development in Africa (AI4D Africa)** 2020
 Narratives and Counternarratives on Data Challenges in Africa (Declined)
Value: \$8,000
- The Working Group in African Political Economy (WGAPE) Rapid Research Grants** 2020
 Data Challenges in Africa (Declined)
Value: \$20,000
- The Council for Scientific and Industrial Research** 2017 - 2020
 Innovative PhD Research Inter-bursary Funding
Value: R360,000
- Mozilla Research Grants** 2019
 Data Sharing in and for Africa (Declined)
Value: \$50,000
- The Council for Scientific and Industrial Research** 2016 - 2017
 Innovative MSc Research Inter-bursary Funding
Value: R157,000
- University of the Witwatersrand, Johannesburg** 2015 - 2016
 Postgraduate Merit Award
Value: R110,000

AWARDS

- Montreal AI Ethics Institute** 2021
Honorarium
 I was offered a honorarium for my contribution to the State of AI Ethics Report with Kehinde Aruleba and [Prof Lauri Goldkind](#).
- ACM FAT¹⁹*** 2020
Travel Grant Awardee
 I was awarded a travel grant to attend the ACM FAT Conference taking place in Barcelona, Spain.
- Pearson South Africa (Bedfordview)** 2019
Distinction Award
 I was awarded a distinction award for teaching excellence at the Bedfordview Campus where in a class of 65, 53 of my students got distinctions for one of my modules.
- ISCFI²⁰** 2019
Best Paper Presentation Award
 I was selected as one of the best presenters at the 6th ISCFI Conference that took place in Johannesburg, South Africa.

¹⁹Fairness, Accountability and Transparency Conference

²⁰International Conference on Soft Computing and Machine Intelligence

- ACM FAT*** 2019
Doctoral Consortium Travel Grant Awardee
 I was awarded a travel grant as a Doctoral student to attend the ACM FAT Conference, Atlanta, Georgia, United States of America.
- Black in AI** 2019
Black in AI Grant Awardee
 I was awarded a travel grant as a Black in AI member to present a poster at the Black in AI Workshop at the NeurIPS Conference in Vancouver, British Columbia, Canada.
- Black in AI** 2018
Black in AI Grant Awardee
 I was awarded a travel grant as a Black in AI member to present a poster at the Black in AI Workshop at the NeurIPS Conference in Montreal, Quebec, Canada.
- CSIR-DST** 2016 - 2020
CSIR-DST Postgraduate Interbursary Support
 I was funded by the Council for Scientific and Industrial Research, under the Department of Science and Technology Interbursary programme for innovative research for my MSc and PhD studies.
- University of the Witwatersrand** 2015 - 2016
Postgraduate Merit Award
 I was one of the awardees that was funded by WITS²¹ for postgraduate studies.
- Easi-card Solutions** 2015
Study Grant
 I was awarded a small research grant by Easi-card solutions to support my MSc studies.

SELECTED PEER-REVIEWED PUBLICATIONS: JOURNALS & BOOK CHAPTERS

- **George Obaido** and Abejide Ade-Ibijola (2020). Generation of Big Data for Chinook Using Formal Grammars. *Journal of Data in Brief*. Elsevier. (under review) [Netherlands].
- **George Obaido**, Abejide Ade-Ibijola and Hima Vadapalli (2020). Synthesis of SQL Queries from South African Local Language Narrations. *Journal of Advances in Science, Technology and Engineering Systems' Special Issue on Multidisciplinary Innovation in Engineering Science & Technology (ASTESJ, Scopus)*, Vol. 5, Number 5 (2020), pp 1189 – 1195, ASTES Publishers, ISSN: 2415–6698. URL: <https://astesj.com/v05/i05/p144/> [United States].
- Kehinde Aruleba, **George Obaido**, Blessing Ogbuokiri, Tayo Adekiya, Adewale Fadaka, Ashwil Klein, Raphael Aruleba (2020). Applications of Computational Methods in Biomedical Breast Cancer Imaging Diagnostics: A review. *Journal of Imaging*. MDPI. <https://www.mdpi.com/2313-433X/6/10/105> [Canada].
- Solomon Oyelere, Nacir Bouali, Rogers Kaliisa, **George Obaido**, Abdullahi A. Yunusa, Eibunayo R. Jimoh (2020). A Systematic Review of Educational Virtual Reality Games. *Journal of Smart Learning Environments*. <https://link.springer.com/article/10.1186/s40561-020-00142-7>. Springer. [China].

²¹University of the Witwatersrand

- Abejide Ade-Ibijola and **George Obaido** (2019). XNorthwind: Grammar-driven Synthesis of Large Datasets for DB Applications. In International Journal of Computer Science (Scopus), Vol. 46, Issue 4, pp 541–551, International Association of Engineers (IAENG). URL: http://www.iaeng.org/IJCS/issues_v46/issue_4/IJCS_46_4_05.pdf. [Hong-Kong]
- **George Obaido**, Abejide Ade-Ibijola and Hima Vadapalli (2018). Generating SQL Queries from Visual Specifications. In Communications in Computer and Information Science (CCIS), vol. 963, pp 315–330, Springer, Cham, Switzerland. ISBN: 978-3-030-05813-5. URL: https://link.springer.com/chapter/10.1007/978-3-030-05813-5_21. [Switzerland].

SELECTED PEER-REVIEWED PUBLICATIONS: CONFERENCES

- Oluwaseun Dada, Sunday Olaleye, Ismaila Sanusi and **George Obaido** (2021). COVID-19 and Airline Refunds: An Analysis of Flight Passengers Reviews in North America. To be presented at the 19th International Conference on e-Society (ES 2021). [United States].
- Ujunwa Mgboh, Blessing Ogbuokiri, **George Obaido** and Kehinde Aruleba (2020). Visual Data Mining: A Comparative Analysis of Selected Datasets. (2020). Presented at the Intelligent Systems Design and Applications (ISDA, 2020) Conference [United States].
- Rediet Abebe, Kehinde Aruleba, Sara Kingsley, **George Obaido**, Sekou Remy, Swathi Sadagopan and Swathi Sadagopan (2020). Narratives and Counternarratives on Data Sharing in and for Africa. Accepted at the ACM Conference on Fairness, Accountability, and Transparency (ACM FAccT 2021). [United States].
- Rediet Abebe, Kehinde Aruleba, Sara Kingsley, **George Obaido**, Sekou Remy, Swathi Sadagopan and Swathi Sadagopan (2020). Narratives and Counternarratives on Data Sharing in and for Africa. ACM Collective Intelligence 2020. URL: <https://shorturl.at/AGQ03>. [United States].
- **George Obaido**, Abejide Ade-Ibijola and Hima Vadapalli (2019). TalkSQL: A Tool for the Synthesis of SQL Queries from Verbal Specifications. In the proceedings of the IEEE International Multidisciplinary Information Technology and Engineering Conference (IMITEC), pp 469–478, November 21st to 22nd, 2019. URL: <https://shorturl.at/aryN0>. [South Africa].
- **George Obaido**, Abejide Ade-Ibijola and Hima Vadapalli (2019). Synthesis of SQL Queries from Narrations. In the proceedings of the 6th IEEE International Conference on Soft Computing & Machine Intelligence (ISCMCI), pp 195–201, ISBN: 978-1-7281-4576-1, November 19th to 20th, 2019. <https://ieeexplore.ieee.org/document/9004293>. [South Africa].
- **George Obaido**, Abejide Ade-Ibijola and Hima Vadapalli (2018). Generating Narrations of Nested SQL Queries Using Context-free Grammars. In the proceedings of IEEE Conference on ICT and Society (ICTAS), pp 13:1–6, 6th to 9th March, Durban. URL: <https://ieeexplore.ieee.org/document/8703620>. [South Africa].
- Abejide Ade-Ibijola and **George Obaido** (2017). S-NAR: Generating Narrations of SQL Queries Using Regular Expressions. In Proceedings of South African Institute of Computer Scientists and Information Technologists, Bloemfontein, Free State. ISBN: 978-1-4503-5250-5. doi: 10.1145/3129416.3129454. URL: <https://dl.acm.org/citation.cfm?id=3129454> [South Africa].
- **George Obaido**, P. Ranchod, R. Klein (2017). Constructing and Analysing Plagiarism in Student Programs using Graphs. In Proceedings of the 2nd International Conference on the Internet, Cyber Security and Information Systems. ISBN: 978-0-86970-802-6. URL: <https://goo.gl/X8kLWr> [South Africa].
- **George Obaido**, Pravesh Ranchod, and Richard Klein (2016). Catching plagiarists: Detecting plagiarism in student source code assignments in a virtual learning environment. In Proceedings of the 10th International Technology, Education and Development Conference, Valencia,

Spain. Pages 7369-7376. ISBN 978-84-608-5617-7. doi: 10.21125/inted.2016.0074. URL: <http://dx.doi.org/10.21125/inted.2016.0074> [Spain].

PRE-PRINTS AND WORKSHOPS

- Rediet Abebe, Kehinde Aruleba, Sara Kingsley, **George Obaido**, Sekou Remy, Swathi Sadagopan and Swathi Sadagopan. “Data Sharing in and for Africa”. Privacy Law Scholars Conference (PLSC), 2020 [USA].
- Rediet Abebe, Kehinde Aruleba, Sara Kingsley, **George Obaido**, Sekou Remy, Swathi Sadagopan and Swathi Sadagopan. “Data Sharing in and for Africa”. International Conference on Learning Representations (ICLR), 2020 [Ethiopia].
- Rediet Abebe, Kehinde Aruleba, Sara Kingsley, **George Obaido**, Sekou Remy, Swathi Sadagopan and Swathi Sadagopan. “Data Sharing in and for Africa”. Contested Data Academic Workshop at Data and Society, 2020 [USA].
- Kehinde Aruleba, Rediet Abebe, Sara Kingsley, **George Obaido**, Sekou Remy, Swathi Sadagopan and Swathi Sadagopan. “Data Sharing in and for Africa”. Machine Learning for the Developing World (NeurIPS), 2019 [Canada].
- Patience Mhlophe and **George Obaido** (2019). Classification of Phishing in Email URLs: A Deep Learning Approach. Poster Presentation at the Third Black in AI Workshop co-organised with the Thirty-second Neural Information Processing Systems Annual Conference [Canada].
- Bikalpa Neupane, Aatish Neupane, Sara Kingsley, Swathi Sadagopan, **George Obaido** and Kehinde Aruleba (2019). Data Browser: MD4SG Platform. Presented at Mechanism Design for Social Good, Phoenix, Arizona, USA. [USA]
- **George Obaido** (2018). Automatic Plagiarism Detection in Student Programs using PlaGraph. Poster Presentation at the Second Black in AI Workshop co-organised with the Thirty-second Neural Information Processing Systems Annual Conference [Canada].

REPORT

- **George Obaido**, Kehinde Aruleba and Lauri Goldkind. “Is the Global South ready for an AI invasion?”. **Montreal AI Ethics: State of AI Report**, 2021 [Canada].

TECHNICAL SKILLS

Programming Languages	HTML5, C#, PHP, Java, C++, JavaScript, Python, R and SQL
Web Frameworks	React, Django, Laravel, Node.js, Angular, R Shiny
Mobile Frameworks	Ionic, React Native, Flutter, Xamarin
Operating Systems	Windows, Linux (Ubuntu, Fedora and Kali-Linux) and Mac OS
Project Management Tools	Redmine, Jira, Agilefant, MS Projects and Gantt Charts
Elearning Platforms	Moodle, SAKAI, Blackboard
Content Management Systems	Wordpress, Joomla, Drupal, Magento, Pretashop and Woocommerce
Business Solutions	SAP ERP Business One Suite 6.0 and Tally ERP
Database Engines	MySQL, PostgreSQL, SQLite, Microsoft SQL Server, MongoDB
Software Testing	Postman and Katalon Studio
Image Editing	Adobe Fireworks, Inkscape, GIMP and Jasc Paint Shop Pro
Type Setting	L ^A T _E X, Microsoft Office
Virtual Machine Tools	VMware Workstation, Hyper-V and Oracle VM VirtualBox

SELECTED DEVELOPED TOOLS: AIDS AND SOLUTIONS

- **BlackHelp:** A resource [website](#) for learning how to publish research articles and using the L^AT_EX typesetting tool. This site is maintained by me.
- **Local-Nar-SQL:** A language translator tool for translating a subset of South African local languages to SQL queries (2020).
- **SQL-Quizer:** A game-based quiz system for learning SQL queries (2020).
- **TalkSQL:** A speech-based query system for translating a natural language into SQL queries (2019).
- **Narrations-2-SQL:** A synthesiser tool that helps to translate SQL queries from natural language (2019).
- **SQL Visualiser:** A visualisation aid that helps to generate SQL queries using images (2018).
- **SQL Narrator:** A tool that helps to generate narratives for complex SQL queries (2018).
- **Coco/R SQL Parser:** A parser that helps to recognise complex SQL queries (2018).
- **S-NAR:** A tool that helps to generate narratives for SQL queries (2017).
- **SQL Compiler:** A compiler that helps to recognise simple SQL queries (2017).
- **PlaGraph:** A graph-based source code plagiarism detection system based on the MOSS engine (2016).
- **Easi-card e-solutions:** An e-commerce platform for the sale of RFID cards and industrial printing machines (2015).

SELECTED BSC PROJECT SUPERVISION

Jared Luboff 2019

Recognising PC Components: Machine learning with mixed reality

Jared presented his work on the use of Computer Vision to recognise Motherboard components. The student completed with a *cum laude*.

Angelique Hassett 2019

An e-commerce platform for a beauty store

Angelique presented her mobile application platform aimed at selling beauty and cosmetic products.

Laruschka Smit 2019

An e-commerce platform for a comical store

Laruschka built an e-commerce store that sells comical books and action figures. The student completed with a *magna cum laude*.

Jason Petrie 2019

Software packages and Cybersecurity merchandise: An e-commerce platform

Jason built an online store aimed at selling software products and hardware accessories. The student completed with a *cum laude*.

COURSES TAUGHT AT UNIVERSITY LEVEL

Pearson (South Africa)

- ITNT121: Network Fundamentals – Year 1
- ITCO011: Computer Systems – Year 1

- ITCN102: Computer Network and Security – Year 1
- ITNT211: Advanced Networking – Year 2
- ITCO221: Internet Server Management – Year 2
- ITIS221: Information Systems 2B – Year 2
- ITPM221: Project Management – Year 2
- ITEC301: Internet Programming and e-commerce – Year 3
- ITOO311: Object Oriented System Analysis and Design – Year 3
- ITSC311: Social Practise and Cybersecurity – Year 3
- ITSEA2: Software Engineering – Year 1
- ITIIA3-B44 - Information Systems Strategic Design - Year 3
- ITHEA0-B44 - Hardware Essentials
- ITSEA2-B12 - Software Process, Architecture Design and Quality Assurance
- ITNSA2-B33 - Network Security

Management College of South Africa

- Informatics 1A: Introduction to Algorithms and Programming – Year 1
- Informatics 1B: Data Structures and Algorithms – Year 1
- End-user Computing – Year 1
- Information Technology Management 2A – Year 2
- Information Technology Management 3B – Year 3
- Informatics 3A: System Analysis and Design – Year 3

Wits University (Teaching Assistant/Tutor)

- COMS1015: Basic Computer Organization - Year 1
- COMS1018: Introduction to Algorithms and Programming - Year 1
- COMS2001: Database Fundamentals – Year 2

KEY STRENGTHS

- Strong communicator both written and oral.
- Excellent problem solving skills.
- Analytical ability and attention to details.
- Critical thinker.
- Good team player.

PROFESSIONAL MEMBERSHIP

- **Member, International Association of Engineers, World-wide:** a non-profit international association for engineers and computer scientists.

- **Member, Institute of Innovators and Inventors, South Africa:** an organisation that has assisted inventors since 1974, a home for inventors by inventors: offering independent, objective advice and support.
- **Member, Institute of Packaging, Nigeria:** is a non-profit organisation, which provides professional education, customised seminars and workshops to assist in raising the standards and quantum of Packaging in Nigeria.
- **Member, Institute of Information Technology of South Africa** *formerly* Computer Society of South Africa: a professional body, recognised by SAQA²², with a proud 55 year history of service to, and representation of, South Africans ICT²³ professionals and practitioners, attracting a broad and active membership from all levels of the ICT Industry.

RESEARCH PROFILES

- [Google Scholar](#)
- [Academia.edu](#)
- [ORCID](#)
- [LinkedIn](#)
- [Website](#)

²²South African Qualifications Authority

²³Information and Communication Technology

REFERENCES

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Applied Mathematics,

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Space Engineering,
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Assistant Professor

University of California

Electrical Engineering and Com-
puter Science

Berkeley,

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