I am an experienced researcher working in two important and increasingly complementary fields: distributed systems and computer networking. I am currently focusing on developing decision support for cloud infrastructures and novel network architectures, among other research topics. Both the EU and the EPSRC have funded my research, and I currently hold a total of £735K in research funding.

One of my top priorities is to produce high impact publications, and thus I have been consistently effective at publishing in top venues (over 1700 citations recorded on Google Scholar, h-index=18, i10-index=32), e.g. IMC (acceptance rate of 23%), IFIP Networking (25%), EuroS&P (18%), CloudCom (18%), ICWSM (19%), ASONAM (17%), MODELS (19%), ICDCS (19%), IEEE ToCC (impact factor of 5.967), ACM ToMM (2.870), and FGCS (5.768). Moreover, I am driven by real-world challenges and thus have been publishing in premier interdisciplinary venues such as EMS (impact factor of 4.552) and JEM (4.865). My research has received widespread media attention, with coverage from news outlets such as BBC, Times, Slashdot, Daily Mail, Science Daily, Naked Security, Business Standard, and Communications of the ACM. I see it as a duty and an honour to be actively involved in community activities and, as such, I serve on a number of editorial boards, TPCs and organising committees.

I also take great pride in having substantial teaching experience. My student feedback has consistently been outstanding for both undergraduate and postgraduate modules.

I have supervised 50+ undergraduate and MSc student projects, during which I engaged closely with the students with attention to detail and quality.

Education

- PhD (2011) in Network Measurement & Grid Computing, Lancaster University, UK.
 Thesis: Monitoring, Analysing and Predicting Network Performance in Grids.
- MSc, with Distinction (2006) in Networking & Internet Systems, Lancaster University, UK.
 Dissertation: Message Propagation in Ad-hoc Wireless Networks.
- BSc (2002) in Computer & Systems Engineering, Alexandria University, Egypt.
 Dissertation: Adaptable WAP Services.

Teaching

2018 – 2021	Building Big Data Systems (MSc module) – mean student feedback 4.04
2016 - 2021	Distributed Systems (3rd year undergraduate module) – 4.18
2015 – 2018	Fundamentals of Data Science (MSc module) – 3.91
2011 – 2012	Advanced Distributed Systems (MSc module)
2011	Advanced Networking and the Internet (MSc module)
2010	Computer Science Innovation (seminar for 3 rd year undergraduates)
2010	Advanced Networking (guest lectures for 3 rd year undergraduates)

Experience

Apr 2021 – present	Reader, School of Computing Science, University of Glasgow.
Jan 2018 – present	Visiting Professor, École de Technologie Supérieure Montreal.
Aug 2019 - Mar 2021	Senior Lecturer (Associate Professor), SCC, Lancaster University.
Oct 2015 - Jul 2019	Lecturer (Assistant Professor), SCC, Lancaster University.
Nov 2010 – Sept 2015	Senior Research Associate, SCC, Lancaster University.
	Worked on EVOp (NERC) and FIC2 (FP7) projects.
Feb 2014 – Feb 2015	Technical Consultant on the EVOKES project (NERC/BIS).
Nov 2006 - Jan 2010	Research Assistant, Computing Department, Lancaster University.
	Worked on EC-GIN (FP6) project.
Sep 2005 - Sep 2006	Network Surveillance Agent, Orange Business Services.

Research Funding

Apr 2018 – Dec 2021 Adaptive Brokerage for the Cloud (ABC)

Principal Investigator EPSRC grant on the selection of cloud services through the introduction

Total: £775,259 of a smart and continuously adaptive cloud broker.

Held: £388,701 Collaborators: University of St Andrews, Adobe, CEH, Satalia

Jan 2015 – Dec 2018 Declarative and Interoperable Overlay Networks, Applications to

Co-Investigator Systems (Dionasys)

Total: €1,032,221 CHIST-ERA grant on abstracting the dynamic linking of heterogeneous

Held: £341,850 network overlays using generative languages.

Collaborators: Neuchatel (Switzerland), Bordeaux (France) and Cluj-

Napoca (Romania)

Jan 2016 – Mar 2016 Pervasive Health

Co-Investigator Internal GCRF seed funding

Total: £5,000 Collaborators: Lancaster University Ghana

Research Team

Post-doctoral Researchers: First subsequent employment

Jul 2022 – present Dr inès Raïssa Djouela

Kamgang Epse Nouabo

Jun 2021 – Mar 2022 Dr Jordan Phillipson

Jul 2017 – Aug 2020 Dr. Abdessalam Elhabbash Lecturer, Lancaster University
May 2018 – Dec 2018 Dr. Maria Salama Post-doc, Lancaster University
Feb 2017 – Jul 2018 Dr. Vicent Sanz Marco Associate Professor, Osaka

University

Jul 2016 - Oct 2016 Dr. Vatsala Nundloll Post-doc, Lancaster University

Mar 2016 – Jul 2016 Dr. Bholanath Surajbali Innovation Lab Coordinator,

MCB Group

PhD Students (current):

Apr 2021 – present Haruna Umar Adoga

Jan 2021 - present Matheus Aparecido do Carmo Alves

Apr 2020 – present Shiyam Alalmaei Jan 2020 – present Dominic Lindsay

PhD Students (graduated): First subsequent employment

Nov 2015 - May 2019 Dr. Assylbek Jumagaliyev Software Engineer, Zühlke

Engineering Ltd

March 2013 – Jun 2017 Dr. Faiza Samreen Post-doc, Lancaster University

Service

General Chair:		
2014-2018	CrossCloud	
2015	Lancaster University Data Analysis Competition	
Journal Editor:		
2015 – present	Journal of Internet Services and Applications thematic series on Cross-Cloud Computing (JISA-CCC)	
2016 - present	Research Ideas and Outcomes (RIO) journal	
2016 – 2017	Journal of Internet Services and Applications thematic series on	
	Complex Distributed Systems and Systems of Systems (JISA-SoS)	
Track Chair:	Somplex Blothbatca Cyclomic and Cyclomic of Cyclomic (die/1 Coc)	
2023	Conference on Metaverse Computing, Networking and	
2020	Applications (MetaCom)	
2020	Global Conference on the IoT (GCAIoT)	
Doctoral Symposium Chair:		
2022	International European Conference on Parallel and Distributed	
	Computing (EuroPar)	
2020	Conference on Utility and Cloud Computing (UCC)	
TPC Member:	company and cross company	
2016 – present	Conference on Network and Service Management (CNSM)	
2021 – present	IEEE Military Communications Conference (MILCOM)	
2023	IEEE Conference on Software Services Engineering (SSE)	
2021	IFIP Networking	
2021	FlexNGIA	
2018	Conference on Distributed Applications and Interoperable Systems	
	(DAIS)	
2018	Symposium on Applied Computing (SAC)	
2017 – 2018	Consumer Communications and Networking Conference (CCNC)	
2017 – 2018	Workshop on Approaches, Analyses, and Performance Issues in	
	Virtualized Environments and Software Defined Networking (PVE-	
	SDN)	
2017	Conference on COMmunication Systems & NETworkS (COMSNETS)	
2017	Conference on emerging Networking EXperiments and	
2017	Technologies (CoNEXT) student workshop	
2017	Symposium on Integrated Network and Service Management (IM)	
2017	Workshop on Future of Internet Transport (FIT)	
2015 – 2017	Information-centric Networking (ICN)	
2015 – 2017	Workshop on Security for Emerging Distributed Network	
	Technologies (DISSECT)	
2015	Embracing Global Computing in Emerging Economies (EGC2015)	
Journal reviewer:	3	
2022 – present	IEEE Transactions on Parallel and Distributed Systems	
2020 – present	IEEE Transactions on Computers	
2020 – present	·	
2020 – present	The Computer Journal	
2019 – present	ACM Transactions on Software Engineering & Methodology	
2018 – present	International Journal of Network Management	
2018 – present	IEEE Communications Magazine	
2018 – present	IEEE Letters of the Computer Society	
2018 – present	World Wide Web Journal	

2017 – present	IEEE Transactions on Network and Service Management	
2017 – present	Cluster Computing	
2016 – present	IEEE Transactions on Mobile Computing	
2016 – present	IEEE Internet Computing	
2013 – present	Computer Networks	
2014 – 2017	Future Generation Computer Systems	
2017	IEEE Pervasive Computing	
2017	IEEE Transactions on Cloud Computing	
2016	Journal of Grid Computing	
2016	Journal of Internet Services and Applications	
2013 – 2015	IEEE Transactions on Multimedia	
PhD Examiner (External):		
Jul 2021	Ramazan Esmeli (University of Portsmouth)	
Jan 2019	Ansar Rafique (KU Leuven)	
July 2018	Wajdi Hajji (Loughborough University)	
PhD Examiner (Internal):		
Feb 2021	Elnaz Shafipour Yourdshahi (Lancaster University)	
July 2019	Martin Bor (Lancaster University)	
Dec 2017	Matthew J. Edwards (Lancaster University)	
PhD Examiner (Chair):		
Apr 2022	Joseph Kaberuka (University of Glasgow)	
Dec 2020	Wyatt Lindquist (Lancaster University)	
External Service:		
Mar 2021	External Examiner for BSc Programme Validation Panel	
Internal Service:		
2019 – 2021	Distributed Systems Group Lead	
2019 – 2021	PhD Admissions Officer	
2016 – 2019	Athena SWAN Lead	
	I planned a very ambitious 4-year plan of how to improve gender	
	equality issues at different levels of the School (academic and	
	administrative staff, student experience, recruitment, development,	
	etc.). We were awarded the Bronze Award on first submission.	
2015 – 2019	Postgraduate Teaching Assessment (Exams) Officer	
2015 – 2016	Equality, Diversity, and Inclusion Officer	

Invited Talks

Mar 2020	University of Portsmouth, UK	"Knowledge and DSLs for Cloud Brokerage Decision Support", invited talk
May 2018	Université de Rennes 1, France	"Using ML to Simplify laaS Decision Making", invited talk
Feb 2018	Université de Sherbrooke, Canada	"Decision Support for Cloud Instance Selection", invited talk
Feb 2018	Concordia University, Canada	"Decision Support for Cloud Instance Selection", invited talk
July 2017	Qatar Computing Research Institute, Qatar	"Cloudy with a chance of heavy Fog", invited talk
Mar 2017	The British Council, Oman	"Delivering Fog Services over Micro-clouds", invited presentation at The British Council's Innovation Policy Dialogue Symposium
Feb 2017	University of Birmingham, UK	"Cloudy with a chance of heavy Fog", invited talk

Jan 2017	Cambridge Computer Laboratory, UK	"The Grape Cluster and Delivering Fog Computing for Development", invited talk at GAIA Community
	•	Networks: Sustainability & Regulation Workshop
Mar 2015	The British Council, Egypt	"Managing Environmental Data in the Cloud", invited talk at the UK-Egypt Joint Workshop on Agriculture
		and Water Management
Feb 2015	The Kazakh-British	"Building Cloud Applications for Challenged
	Technical University,	Networks", opening keynote presentation at the
	Kazakhstan	Workshop on Embracing Global Computing in
		Emerging Economies
Nov 2012	Oak Ridge National	"The Environmental Virtual Observatory pilot project",
	Laboratory, TN, USA	invited keynote at the Knowledge Systems for
		Sustainability (KSS) partnership
Sept 2012	University of Colima, Mexico	"Using the Cloud for Research, Education and
		Decision Support", opening keynote presentation at
		the International Congress on Information Technology
June 2011	University of Oslo, Norway	"Constructing an Environmental Virtual Observatory
		Using the Cloud", invited seminar

Publications

More than 60 peer-reviewed publications, H-index = 23, i10-index = 37 (as of May 2023). Google Scholar profile $\underline{\text{here}}$. All PDF downloads are available $\underline{\text{from my webpage}}$.