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Queen Mary University of London
Mile End Road
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Education

- 2007 – 2010** Queen Mary University of London
Post Graduate Certificate in Academic Practice – **PGCAP** (Awarded June 2010)
- 2003 – 2007** Queen Mary University of London
PhD Electrical and Electronic Engineering (Obtained July 2007)
Thesis title: “Antennas and Radio Propagation for Body-Centric Wireless Communications”
- 1999 – 2003** Queen Mary University of London
MEng Communications Engineering, **First Class** (Achieved).
- 1998 – 1999** University of East London
Science and Engineering Foundation Year, **First Class** (Achieved)

Professional Experiences

Reader in Antennas & Applied Electromagnetics/Senior Tutor, Queen Mary University of London (May’18-present)

Leadership of substantial research group and teaching programmes and activities within areas of interests and beyond. Undertake research activities and make significant contributions to the field of Antennas, Electromagnetics and Communication Systems. Establish research leadership and broaden potential interdisciplinary research activities both within and outside QMUL. Engage in learning and teaching activities relevant to the school and undertake various administrative roles within the school. Participate in outreach activities where necessary to assist in recruitment and widening participation and enhance public engagement.

Senior Lecturer (Associate Professor)/Senior Tutor, Queen Mary University of London (Oct’14-May’18)

Undertake research and leadership activities and make significant contributions to the field of Antennas, Electromagnetics and Communication Systems. Establish research leadership and broaden potential interdisciplinary research activities both within and outside QMUL. Engage in learning and teaching activities relevant to the school and undertake various administrative roles within the school. Participate in outreach activities where necessary to assist in recruitment and widening participation and enhance public engagement.

Lecturer (Assistant Professor)/Senior Tutor, Queen Mary University of London (Oct'07-Sept'14)

Undertake research activities and make significant contributions to the field of Antennas, Electromagnetics and Communication Systems. Establish research and broaden potential interdisciplinary research activities both within and outside QMUL. Engage in learning and teaching activities relevant to the school and undertake various administrative roles within the school. Also, participate in outreach activities where necessary to assist in recruitment and widening participation.

Research Assistant, Queen Mary, University of London (Dec'06–Sept'07)

Job involved investigating the modelling, design and implementation of body-worn antennas for UHF bands to be applied in defence and military applications. The job also involved the derivation of design guides and theoretical considerations for wearable antennas. The project was funded by DSTL, UK.

Teaching Assist. (Part-time), Queen Mary, University of London (Sept'03–Aug'06)

Job involved assisting and helping students with tutorials, labs and courseworks. Organising laboratory sheets and apparatus and also providing contributions to coursework and potential test questions. Communicating with students in one-to-many and one-to-one manners for help with tutoring and understanding problems.

Summer Researcher, Queen Mary, University of London (July'02–Sept'02)

Job involved investigating the possibility of designing and implementing new techniques in controlling the main beam of a microstrip antenna integrated with Lens antennas.

Achievements & Awards

- Won the first place in the Qatar National Research Fund (QNRF) competition of 'Best Representative Image of an Outcome (BRIO) 2018'.
- Co-recipient of the Abu Dhabi Department of Education and Knowledge (ADEK) Award for Research Excellence 2017 on "Sensing the Human Skin for Medical Diagnostic and Prevention in Personalised Healthcare Applications", January 2018 to December 2019.
- Five Keynote Speeches at various international conferences including the "16th Mediterranean Microwave Symposium (MMS2016)", in Abu Dhabi on 16 November 2016, in addition to keynote speeches coming up in 2018 for both URSI-Turkey in September 2018 and also the International Symposium on Advanced Electrical and Communication Technologies in Morocco in November 2018.
- Recognition by European Alliance for Innovation (EAI) as Excellent TPC Chair and Local Organising Committee Chair for MobiHealth 2015 in London, UK, 14 to 16 October 2015.
- Nominated 'Teacher of the Year' for 2010 and 2011 and also the Draper's Award for Excellence in Teaching.
- Recognition of Top ranked proposal for Royal Academy of Engineering Industrial Secondment round awarded in June 2013.
- TEDx Speaker (December 2012) on our latest research in the Science Fiction of Electromagnetism.
- Winner of the 2011 Ismabard Kingdom Brunel Award for Best Young Science Communicator at the British Science Festival, September 2011.
- Various media appearances including Interview by Aljazeera English, feature articles in Weekly News and VerticalNews.
- Finalist in Best Young Investigator Competition in the International Workshop of Implantable and Wearable Body Sensors (Body Sensor Network - BSN 2007), Aachen, Germany.

- IEE Best Final Year Student Prize 2003 for outstanding achievement in the final year and best student overall in programme of study.
- Drapers' Company Undergraduate Prize for academic excellence at Queen Mary, University of London from the Drapers' Charitable Fund, September 2002.
- Anthony Williams Memorial Prize for Outstanding Academic Achievement, academic year 1999-2000.
- Queen Mary, UoL, college full research scholarship 2003-2006.
- Overseas Research Scholarship (ORS) award 2003-2006 for support with further research studies.
- First Year Undergraduate Scholarship in the Department of Electronic Engineering, Queen Mary University of London, September 1999.

Research & Scientific Activities

Professional Affiliation and Activities:

- Memberships
 - Chartered Engineer, The Engineering Council UK
 - Fellow of the Higher Education Academy
 - Member of UK URSI (International Union of Radio Science) panel to represent the UK interests of URSI Commission B (1 Sept 2014 until 31 Aug 2020).
 - College member for the Engineering and Physical Sciences Research Council (EPSRC)
 - Reviewer for the Swiss National Science Foundation (SNSF)
 - Senior Member of the Institute of Electrical and Electronic Engineers (IEEE)
 - Member of IEEE P1900.7 - Radio Interface for White Space Dynamic Spectrum Access Radio Systems Supporting Fixed and Mobile Operation Working Group
 - Member of IEEE P1906.1 - Recommended Practice for Nanoscale and Molecular Communication Framework Working Group
 - Member of the European Association on Antennas and Propagation (EurAAP)
 - Member of the European School of Antennas (ESoA) Network
 - Member of the Institute of Engineering and Technology (IET)
 - Member of Outreach team at the School of Electronic Engineering and Computer Science, QMUL
 - Co-founding Member of Enhancing Students' Employability Task Force (ESET) at Queen Mary, University of London, Science and Engineering Faculty.
 - Member of the IEEE Dignitaries Panel Discussion at IEEE UKRI Section Student Branch Congress, 2 - 4 September 2011, Queen Mary, University of London, UK.
- Examination Committees
 - External examiner for Nottingham Trent University for their Biomedical, Electronic and Sport Engineering degree programmes (Sept 2017 to December 2021).
 - PhD/MPhil examiner for University of Engineering and Technology Taxila, Pakistan, University College London, UK, King's College London, UK, Tezpur University, India, Ghent University, Belgium, The University of Queensland, Macquarie University, Australian National University (ANU)/NICTA, Australia, Imperial College London, UK, Tecnun Universidad de Navarra, Spain, Loughborough University (3 candidates), UK, Anna University, India and Maulana Azad National Institute of Technology, India, University of Malta, Malta
 - PhD committee member for University of London candidates
- Conferences and Workshops Organisation

- Local organisation chair for European Conference on Antennas and Propagation (EuCAP) 2018 in London, UK.
- TPC Co-chair for MobiHealth 2017 in Wien, Austria, November 14-16, 2017
- TPC Chair and Local Organising Committee Chair for MobiHealth 2015 in London, UK, 14 to 16 October 2015 (Recognition Award by EAI as Excellent TPC Lead).
- Technical Programme Committee (TPC) Chair and Local Organising Committee Chair for IEEE MTT-S International Microwave Workshop Series on RF and Wireless Technologies for Biomedical and Healthcare Applications (IMWS-Bio 2014), London, UK.
- Special Sessions Chair for MobiHealth 2014 in Athens, Greece
- Publication/Publicity chair and organising committee member for:
 - ACM NanoCom 2016 and 2017
 - Metamaterials 2009 in London, UK
 - IET seminar on Antennas & Propagation for Body-Centric Wireless Communications
 - European School of Antennas course on Antennas & Propagation for Body-Centric Wireless Communications (2009 and 2011).
 - Loughborough Antennas & Propagation Conference 2008 (LAPC 08), Loughborough
 - International Workshop on Antenna Technology 2007 (iWAT 07), Cambridge, UK.
- Editorial boards
 - Associate editor for IEEE Antennas and Wireless Propagation Letters (2018 - present)
 - Associate editor for IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology (2017 - present)
 - IEEE Access Special Issue on Wearable and Implantable Devices and Systems (Guest Editor 2017/2018)
 - Hindawi Wireless Communications and Mobile Computing Special Issue on Antenna Systems for INternet of Things (Guest Editor 2017/2018)
 - Applied Sciences Special Issue on Wearable Wireless Devices (Guest Editor 2017/2018)
 - Elsevier Nano Comms Journal Special Issue on "In-and-off Body-Centric Nano-scale Wireless Communication and Networks" (Lead Guest Editor 2016/17)
 - IEEE Access Special Issue on Nano-antennas, Nano-transceivers, and Nano-networks/Communications (Guest Editor 2016/2017)
 - IEEE ComSoc Best Readings on Nanoscale Communication Networks (Editor, March 2015)
 - IEEE Transactions on Microwave Theory and Techniques Mini-special issue on IEEE MTT IMWS-Bio 2014 (Guest 2014/2015).
 - Electornics (ISSN 2079-9292, MDPI Publications) special issue on Wearable Electronics (Guest 2013/2014).
 - Hindawi Journals ISRN Sensor Networks and Journal of Wireless Networking and Communications
- Reviewer for (including but not limited to):
 - IEEE Transactions on Antennas & Propagation, Microwave Theory & Techniques, Information Technology in Biomedicine, Vehicular Technology, IEEE Journal on Selected Areas in Communication, IEEE Antennas & Wireless Propagation Letters
 - IET Communications, Sesnors and IET Microwaves, Antennas & Propagation

- Scientific Reports (Nature Publishing Group), Elsevier Physical Communication Journal, Advanced Electromagnetics Journal, Journal of Sensors, Journal of Electromagnetic Waves and Applications (JEMWA), Progress in Electromagnetic Research and Annals of telecommunications
- IEEE conferences and workshops in USA and Europe in addition to many international conferences such as Asia Pacific Microwave Conferences
- Wiley & Sons books on antennas and radio propagation.
- Expert Reviewer for The UK National Commission for UNESCO (UKNC) for the Newton Prize as part of their broader Newton Fund.
- Expert Reviewer for the Research Council of Oman, Swiss National Science Foundation (SNSF) Research, the Engineering and Physical Sciences Research Council (EPSRC), United Kingdom and the Medical Research Council (MRC), UK

Invited Talks & Lectures

(In addition to the ones below, over 25 invited talks were delivered at international and national conferences and workshops)

- **Keynote speaker at the International Symposium on Advanced Electrical and Communication Technologies (ISAECT 18), 21 to 23 November 2018, Rabat, Morocco.**
- **Keynote speech on "EM in Biology and Medicine" at the 2018 URSI-Turkey Congress, in Konya, Turkey, 6 to 8 September 2018.**
- Invited talk at the Institute for Communication Systems (ICS) at the University of Surrey on our recent research related to novel flexible and efficient reconfigurable antennas from low GHz to Millimetrewave on 3rd August 2017.
- Delivering invited talk on "Wearable Technology and the Quantified Self: EM Engineer Prospective" at Hamad Bin Khalifa University, Doha, Qatar on 28 Feb 2017.
- **Keynote speaker at the "16th Mediterranean Microwave Symposium (MMS2016)", in Abu Dhabi on 16 November 2016.**
- IETR/University of Rennes 1 (France), "Wearables, Textile/Flexible Antennas and Nano-scale Communications", 18 May 2016.
- Texas A&M University at Qatar, Wireless Communication Group, "Wearable Antennas and Radio: Textile to Nano-scale!", 26 October 2015.
- Invited talk on 'Wearable Technology Opportunities' at the Smartex Near Field Club Meeting on 15 September 2015 at the Park Tower Knightsbridge.
- **Keynote speech on wearable and smart radio systems at the BELgian network on STOchastic modelling, analysis, design and optimization of COMMunication systems annual workshop (IAP BESTCOM) in Ghent University, Belgium on 30th April 2015**
- Invited talk on antennas and radio systems for Wearable Technologies at Qatar Computing Research Institute (QCRI) on 20th November 2014, Doha, Qatar.
- Presented at SCL Technology Law Futures Forum in London on 26 June 2014 our work on Wearables and Healthcare as part of Centre for Intelligent Sensing
- Tsinghua University, The Microwave and Antenna Institute, "Antennas with Multiple Degrees of Reconfiguration for Cognitive Radio and Future Wireless Communication Systems", 12 December 2013.
- University of Warwick, Dept. of Physics, "Recent Advances in QMUL Antennas and EM Research", Institute of Physics (IoP) Evening Talk Series, November 2013.
- Texas A&M University at Qatar, Wireless Communication Group, "Antennas and Radios: Making You The Centre of Smart Healthcare Networks", 2 April 2013.
- DSTL Antennas Working Group (DAWG) workshop 2012, "Novel and Advanced Solutions for Body-Centric Research and Reconfigurable Antenna Front-Ends".

- IET Seminar on Body-Centric Wireless Communications, "Antennas and radio propagation for low-power cooperative Body Centric Wireless Networks", IET Savoy Place, London, 27th June 2011.
- Seminar on "Antennas and Propagation for Cooperative and Low-Power Body-Centric Wireless Communication", University of Surrey, 2010.
- **Keynote at the Workshop on Wireless Communication & Networking, December 19th 2009, UET Lahore, Pakistan, "The Future of Body-Centric Communications: Antennas, Propagation and Cognition", Keynote Online Presentation.**
- IET Solent Network - Isle of Wight Section, Evening Event Lecture, 24 September 2009, "The Future of Body-Centric Communications"

Research Grants and Funding

- Research Council Projects
 - PAMBAYESIAN: PATient Managed decision-support using Bayesian networks, Co-investigator – EPSRC Intelligent Technologies for Collaborative Care Fund (Total for consortium £1.9m, July 2017 – July 2020)
 - Enabling High-Speed Microwave and Millimetre Wave Links (MiMiWaveS), Co-investigator – EPSRC funded project in collaboration with King's College London (£648k, June 2016 – May 2019)
 - Numerical Analysis and In-vitro Demonstrator of Small-scale Communication Networks for Healthcare Monitoring Applications, Principle investigator – Qatar National Research Foundation NPRP fund with Texas A&M University at Qatar (£550k, Feb 2015–Jan 2018)
 - EPSRC Off-campus Business Engagement Fund, Principle investigator – EPSRC funding through QMUL internal competition (£12.5k, Jan–Apr 2015)
 - EPSRC CDT Capital Equipment Fund for Media and Arts Technology Doctoral Training Activities, EPSRC funded capital to purchase a variety of equipment specifically embroidery and textile-flexible electronics facilities (£314k, Sept 2014)
 - PATRICIAN: New Paradigms for Body Centric Wireless Communications at MM Wavelengths, Engineering and Physical Sciences Research Council (EPSRC) funded project in collaboration with University of Birmingham and Durham University (£1.2m, 2011 – 2014)
 - Reconfigurable Antennas and Radio Front-ends for Cognitive Radio, EPSRC funded PhD studentship (£60k, 2010 – 2014)
 - Platform Grant: Antennas for Healthcare and Imaging, EPSRC funded platform grant (£1.1m, 2008 – 2013)
 - Post-Doctoral Support for Research Students, EPSRC ImpactQM funded post-doctoral training for research students (£10k, 2012)
 - Industry Secondment – Enhancement and optimisation of antenna performance for personal health devices, EPSRC ImpactQM funded secondment with Acute Technology Ltd. (£12k, 2012)
 - Smart Antenna Systems for Cooperative Low-Power Wireless Personal and Body Area Networks, EPSRC funded project (£122k, 2010 – 2011)
 - Summer vacation Bursary, EPSRC funded bursary for Research Assistant (£1.5k, 2008)
- Other and Industrial Funding
 - Sensing the Human Skin for Medical Diagnostic and Prevention in Personalised Healthcare Applications, Abu Dhabi Department of Education and Knowledge (ADEK) Award for Research Excellence 2017, QMUL PI – Lead by UAE University and

in collaboration with University of Glasgow UK (Total of £90k, January 2018 – December 2019)

- Design, fabrication and ex vivo validation of a body-centric localisation and tracking system for use in a robotised wireless capsule endoscope, Principle Investigator – QMUL Life Sciences Initiative Proof of Concept Fund (£50k, July – June 2017)
- Beam Loss Reduction by Barrier Buckets in the CERN Injector Complex – Principle Investigator – QMUL (UK) and CERN (Switzerland) jointly funded PhD studentship (£65k, September 2017 – September 2020).
- AMMETEX: Advanced Material Structures for Meta-Textile – Principle Investigator – Innovate UK with Intrinsic Materials Ltd. (£150k, Feb – Oct 2016)
- Circular and Linear Polarised Antennas for Broad and Multi-Band Performance – Co-investigator – Innovate UK/MoD GNSS Antenna SBRI Phase 1 Funded with Rockwell Collins UK Limited (£50k, March – June 2014)
- Novel Antenna Structures for Airborne Applications – Co-investigator – Selex ES Funded (£66k, May – December 2014)
- Advance Traceable Measurements for Wearable Antennas, Royal Academy of Engineering Industrial Secondment Scheme (£75k, April 2014–November 2014)
- Technologies for Control of Advance Tele-robotic, Technology Strategy Board (TSB) Funded with the Shadow Robot Company (£150k, July 2013–June 2014)
- Novel Antenna Structures for Low Frequencies, Selex ES Funded (£60k, July 2013–January 2014)
- Understanding and Characterising Nano-scale Communication Networks for Healthcare Monitoring Applications (Institute of Bioengineering), QMUL Funded full PhD studentship (£80k, 2013–2016)
- GNSS Handset: Improved Antenna and LNA Front-end, Funded by Trimble Navigation Ltd., New Zealand (£98k, 2013)
- Novel Composite Radiator, Funded by Defence Science and Technology Laboratory (£40k, 2011–2012)
- Ultra Wideband Localisation Techniques for Accurate Motion Capture Solution in Healthcare Monitoring Systems, QMUL funded PhD studentship (£80k, 2011–2014)
- Efficient Integrated Antennas for Wireless Smart Metering Solutions, Consultancy funded by Onzo, Ltd., UK (£15k, 2010)
- Smart On-Body Wireless Sensor Networks for Healthcare Applications, Funded by Innovation China UK in collaboration with Fudan University, China (£15k, 2009)
- Wireless Sensors Network for remote monitoring in Healthcare and Sport applications, Funded by the Westfield Trust (£5k, 2008)
- Nuffield Foundation Bursary, Funded by the Nuffield Foundation (£3k, 2008–2009)
- Various other projects on medical implants, body-worn antennas and healthcare sensors – Main researcher, Funded by Philips Research Europe and China, GE Healthcare USA and Defence and Science Technology Laboratory UK (Total of £80k, 2005–2007)

Post-doctoral/Researcher Assistants and PhD Students

- Post-docs and Research Assistants
 - Current Research Assistants
 - Ms Syeda Fizzah Jilani, "Design, fabrication and ex vivo validation of a body-centric localisation and tracking system for use in a robotised wireless capsule endoscope", Research Assistant, QMUL Life Sciences Initiative Proof of Concept Fund, February 2018 - present.

- Mr Ahmed Khalid Aziz, "Design, fabrication and ex vivo validation of a body-centric localisation and tracking system for use in a robotised wireless capsule endoscope", Research Assistant, QMUL Life Sciences Initiative Proof of Concept Fund , February 2018 - present.
- Past Research Assistants
 - Ke Yang, "Numerical Analysis and In-vitro Demonstrator of Small-scale Communication Networks for Healthcare Monitoring Applications", Post-doctoral Research Assistant, Qatar National Research Fund, November 2015 - January 2018.
 - Syeda Fizzah Jilani, "AMMETEX: Advanced Material Structures for Meta-Textile", Research Assistant, Qatar National Research Fund, February 2016 - December 2016. (Now PhD student at QMUL)
 - Qiao Cheng, "AMMETEX: Advanced Flexible Materials for Electronics", Research Assistant, Innovate UK funding, September 2016 to December 2016.
 - Christine Farion, "QMUL Wearable Creativity and the Wearable Technology Show", Research Assistant, EPSRC Off-campus Business Engagement, January 2015 – April 2015. (Now PhD Student in QMUL MAT Programme)
 - Manmohan Sharma, "Advanced Technologies for Tele-robotics", Research Assistant, TSB R&D Feasibility Study project, July 2013 – July 2014. (Now a PhD Researcher at Queen Mary University of London)
 - Rhiannon Mitchell-Thomas, "Novel Antenna Structures for Low Frequencies", Post-Doctoral Research Associate funded by Selex ES, UK.
 - Dr Sheng Wang, "Improved Antenna and LNA Front-end for GNSS Hand-Held Unit", Post-Doctoral Research Assistant funded by Trimble, NZ., April 2012 - June 2013. (now post-doctoral research assistant in University of Leicester).
 - Mr Oluyemi Falade, "Novel Composite Radiators", Research Assistant funded by DSTL, December 2011 – April 2012. (now Research Student at Antennas in QMUL)
 - Dr Raffaele Di Bari, "Smart Antenna Systems for Cooperative and Low Power Body/Personal Area Networks", Post-Doc funded by EPSRC, September 2010 – March 2012. (now Senior Antenna Engineer at EADS Astrium UK)
 - Dr Mohammed Monirujman Khan, "Wireless Wearable Sensor Networks for Healthcare Applications", January 2009 – April 2009. (Graduated PhD student in January 2012 and now an academic in Bangladesh)
- PhD Students
 - Current Students
 - Primary Supervisor of:
 - Ahmed Khalid Aziz, "Sensing Technologies in Visible and Terahertz Frequencies", started September 2014 and funded by Commonwealth Scholarship Commission.
 - Katrin Hansel, "Novel Flexible Wearable Solutions for Promotion of Wellbeing including User Interaction", started January 2015 and funded by QMUL EPSRC PhD fund.
 - Syeda Fizzah Jilani, "Flexible Reconfigurable Antenna/Radio Front-ends for Smart and 5G Networks", started January 2015 and funded by Pakistan Higher Education
 - Zia Ullah Khan, "Large Array Structures for High Data-rate 5G Applications", started March 2017 and jointly supervised with Dr Tian Hong Loh from the National Physical Laboratory.
 - Nanda Khaorapapong, "Subtle Technologies for Face-to-face Interaction", started September 2011 and funded by the EPSRC/AHRC Doctoral Training Centre on Media and Arts Technology.

- Isidoro Ibanez Labiano, "Integrated and Flexible Radio Front-ends for Next Generation Wearable Devices", started March 2018 on QMUL Principal's Postgraduate Research Studentship.
 - Wanli Li, "Sensing and Control of Soft Robotics", started September 2016 and funded by Chinese Scholarship Committee.
 - Mihaly Vadai, "Beam Loss Reduction by Barrier Buckets in the CERN Injector Complex", started September 2017 and funded by QMUL and CERN (Switzerland).
 - Rui Zhang, "Channel Characterisation and System Modelling for Nano-networks at the THz Band", started September 2015 and funded by Chinese Scholarship Committee.
 - Second Supervisor of:
 - Jih-Hong CHENG – Terahertz Microfluidics System and Terahertz Circular Dichroism application in Disease Diagnostics
 - Amelia Shivani Hassard – Strategies for Narrative Storytelling in Interactive Virtual Reality
 - Ardavan Rahimian – Integrated Millimetre-Wave Array Beamforming Networks for 5G Wireless Communication Systems
 - Najmeh Rezaei – Design, Modelling, and Control of an Integrated Converter and Battery Charger System for Electric Vehicle Powertrains
 - Yulia Silina – Understanding Interfaces for Connected Computational Jewelry
 - Dingliang Wen – Antenna Design based on Characteristic Mode Theory
- Past Students
 - Dr Qiao Cheng, "Compressive Sensing for Microwave and Millimeter-Wave Array Imaging", September 2014 - September 2017 (now Post-doctoral Research Assistant at QMUL, UK).
 - Dr Nishtha Chopra, "Characterisation of Skin-based THz Communication Channel for Nano-scale Body-centric Wireless Networks", November 2013 - March 2017. (now High Radiation Protection Scientist at Public Health England, UK)
 - Dr Ke Yang, "Characterisation of the In-vivo Terahertz Communication Channel within the Human Body Tissues for Future Nano-communication Networks", September 2011 – November 2015. (now Post-doctoral Research Assistant at QMUL, UK)
 - Dr Richa Bharadwaj, "Investigation of 3D Positioning Accuracy Enhancement Using Impulse Ultra Wideband Radio", January 2011 - July 2015. (now Faculty Member in the Department of Electronics and Communication Engineering, Thapar University, Patiala, India)
 - Dr Yansha Deng, "Cognitive Networks", September 2012 – January 2015. (Now Post-Doctoral Research Assistant in King's College London, UK)
 - Dr Khaleda Ali, "Numerical Modelling and Channel Characterization for Wireless Body Area Network", September 2010 – November 2014. (now Assistant Professor at University of Liberal Arts, Bangladesh)
 - Dr Tamer Aboufoul, "Novel and Compact Reconfigurable Antennas for Smart Wireless Communications", September 2010 – December 2013. (Antenna Engineer at Apple Inc. from April 2014)
 - Dr Mohammed Monirujjman Khan, "Wearable Antenna Design Guide and Theoretical Analysis for Low-Power Body/Personal Area Network", September 2008

- January 2012. (now Assistant Professor at American University, Dhaka, Bangladesh)
- Dr Qammer H. Abbasi, "Enhanced Antenna and Radio Systems for Body-Centric Wireless Communications", January 2009 – December 2011. (Now Assistant Professor at Electrical Engineering Department, University of Engineering & Technology, Lahore, KSK, Pakistan)
- Visiting Researchers
 - Dr Najah Abed Abu Ali, "Advanced Networking Concepts for Nano-scale EM-based Body-centric Wireless Communications", from United Arab Emirates University, UAE, July-August 2017.
 - Armita Afsharinejad, "THz Spectroscopy and Channel Characterisation for Vegetation", from Waterford Institute of Technology, Ireland, March-April 2016
 - Syed Muzahir Abbas, "Novel Antenna Solutions for Body Area Networks", from Macquarie University, Australia, March-April 2015.
 - Jie Dong, "Radio Channel Modelling and Characterisation for Cooperative Body Area Networks", from Australian National University and NICTA, Australia, June 2013.
 - Muzammil Jusoh, "Reconfigurable Microstrip Patch Antennas for Smart WLAN Applications", from University of Malaysia Perlis/University of Technology Malaysia, Malaysia, February 2013 to May 2013.
 - Alice Buffi, "Numerical Investigation on Surface Wave Propagation in Body Area Networks", from University of Pisa, Italy, June 2011 to December 2011.
 - John Diskin, "Ultra-Wideband Radio Channel Modelling and Characterisation for Indoor Environments", from Dublin City University (DCU), Dublin, Ireland, 29 April - 2 May 2008.

Administrative Duties

- Senior tutor for postgraduate students and chair of postgraduate Student Staff Liaison Committee (SSLC)
- Founding and active member of Queen Mary, University of London, ESET (Enhancing Students' Employability Taskforce)
- Industry Strategy Coordinator
- **UCAS** undergraduate applications, interviews, welcome and departmental talks and clearing.
- **Outreach** programmes and talks to local and national schools for science and engineering.
- QMUL College **Open Day for Science and Engineering** (Presenter).
- **Antennas Research Group publicity and website** activities and organisation.
- General administrative activities related to teaching responsibilities and students' issues.

Teaching Duties

- European School of Antennas, mainly for postgraduate, PhDs and industrial participants across EU and the world (60+, Organiser/Lecturer, 2011 – present)
- ECS645U Microwave and Millimetre-wave Communication Systems (15 students, Lecturer, 2015-Present)
- ECS404U Computer Systems and Network (365 students, Lecturer, 2015 – Present)
- ECS514U Design and Build Project for Electronic Engineering (40 students, Organiser, 2014-Present)
- ECS626U Team Project for MEng – (15 students, Organiser, 2014 – 2016)

- ECS511U Creating Interactive Objects – (20 students, Organiser/Lecturer, 2013 – present)
- EBU6569 Microwave Electronics (250 students, Lecturer, 2013 – 2014, taught in Beijing as part of the Joint Programme with BUPT, China)
- ELE335 Digital Systems Design (60 students, Organiser/Lecturer, 2007 – 2013)
- ECS606U Communication Systems Electronics (50 students, Organiser/Lecturer, 2011 – 2014)
- ELE794 Advanced Electrical and Electronic Studies (16 students, Organiser/Lecturer, 2008 – 2012)
- ELE596 Group Project for MEng (15 students, Organiser, 2007 – 2011)
- EBU4202 Digital Circuit Design (400 students, Lecturer, 2007–2011, **taught as part of the award winning Joint Programme with Beijing University of Posts and Telecommunications**)
- Guest lecturer for *ECS402U Professional and Research Themes* in EECS (2012)
- Undergraduate and postgraduate project and dissertation supervisor (Successfully advised over 40 students to date, 2007 – present)

Technical Skills

Programming languages : C/C++ and general logic theories for programming.

Protocols and technologies: TCP/IP, BroadBand ATM, UDP, HTML, GSM/UMTS (3G Mobile Communications)

Operating systems: Win98/95, Windows Professional/Vista, Linux (“Mandrake 7.2”) and iOS.

Packages: Microsoft Office 97-2007 (Word, Excel and PowerPoint), LATEX, HP/ADS (Antenna & Microwave circuits Design), Xilinx (Digital System Design), MATHCAD/MATLAB, Personal Computer Aided Antenna Design (PCAAD), High Frequency Structure Simulator (HFSS), Microwave Studio CST, FEKO, REMCOM XFDTD and Wireless Insight, LABVIEW for general control software design

Publications

Dr. Alomainy has over 220 publications in international conferences, leading journals and book chapters (h-index: 32 and i10-index: 66 with 4300+). Check the Google Scholar page at <https://goo.gl/rZgFHS>

Books and Book Chapters

1. Qammer H. Abbasi, Masood Ur Rehman, Khalid Qaraq and Akram Alomainy (eds.), **"Advances in Body-Centric Wireless Communication: Applications and State-of-the-art"**, The Institute of Engineering and technology (IET), July 2016. ISBN: 978-1-84919-989-6
2. Tamer Aboufoul and Akram Alomainy, "Compact and Efficient Reconfigurable Antennas for Flexible Radio Front-end in Cognitive Radio Systems", Chapter in Handbook of Research on Software-Defined and Cognitive Radio Technologies for Dynamic Spectrum Management, IGI Global, October 2014. ISBN: 9781466665712 and DOI: 10.4018/978-1-4666-6571-2
3. Akram Alomainy, Raffaele Di Bari, Qammer H. Abbasi, Yifan Chen, **"Cooperative and Energy Efficient Body Area and Wireless Sensor Networks for Healthcare Monitoring Applications: From Antenna Designs to Vital Data Monitoring Systems"**, reference book as part of the 'Academic Press Library of Biomedical Applications in Mobile and Wireless Communications' by Elsevier (mid 2014).
4. Qammer H. Abbasi, Akram Alomainy, Yang Hao, "Ultra Wideband Antenna Diversity Techniques for Enhancing Performance of Body–Worn Wireless Sensor Networks", Chapter in Ultra–Wideband and 60 GHz Communications for Biomedical Applications, 2014 by

Springer Publications, New York. ISBN: 978-1-4614-8895-8 (Print) 978-1-4614-8896-5 (Online).

5. Alomainy, Qammer H. Abbasi, Istan Kovacs, Yang Hao, Peter Hall, et al., "Ultra Wideband Technology for Body-Centric Wireless Communications ", Chapter 5 in 2nd Edition, Antennas and Propagation for Body-Centric Wireless Networks, June 2012, ISBN-10:1608073769.
6. Alomainy, Y. Hao and W. F. Pasveer, "Antennas for Wearable Devices", Chapter 6 in Antennas for Portable Devices, March 2007, Wiley & Sons, Inc., ISBN-10:0470030739
7. Alomainy et al. (Co-author), "Antennas and Propagation for On-Body Communication at Microwave Frequencies", Chapter 3 in Antennas and Propagation for Body-Centric Wireless Networks, September 2006, Artech House, ISBN-10: 1580534937.
8. Y. Hao, A. Alomainy and Y. Zhao, "Antenna design & propagation measurements and modelling for UWB wireless BAN," Chapter 16 in Ultra Wideband: Antennas and Propagation for Communications, Radar and Imaging, October 2006, Wiley & Sons, Inc., ISBN-10: 0470032553.

Journal Papers

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Conference Papers

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