

Mohsin Javed

Mathematical Institute, Andrew Wiles Building,
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Education	<i>DPhil (PhD)</i> , Numerical Analysis Mathematical Institute, University of Oxford	Expected 2016
	<i>Master of Science (Distinction)</i> , Mathematical Modelling and Scientific Computing Mathematical Institute, University of Oxford	Fall 2011
	<i>Bachelor of Science (Honors)</i> , Electrical Engineering University of Engineering and Technology, Lahore, Pakistan Concentration: Telecommunication & Computer Science	Fall 2009
Honors & Awards	European Research Council Grant for DPhil	2012-2016
	Fulbright Scholarship (Withdrawn due to ongoing studies at Oxford)	2010
	Commonwealth Scholarship	2010
	Best Graduating Engineer	2009
	Graduated at the top of electrical engineering class (60 students)	2009
	Best Project in Algorithms	2008
	Best Project in Power Electronics	2008
	Punjab IT-Board Outstanding Talent Scholarship	2005
	Best Graduating Student at PAF Public School, Sargodha	2004
	Gold Medal in Pre-Engineering	2004
Head Boy of PAF Public School, Sargodha	2003	
Catchpole Scholarship	2003	
Distinction and Quaid-e-Azam Scholarship in Matriculation	2002	
Teaching Experience	Mathematical Institute, University of Oxford	2012-Present
	Tutor for Approximation of Functions	2012
	Tutor for Banach Spaces	2013
	Department of Electrical Engineering, University of Engineering and Technology, Lahore, Pakistan	2009-2012
	<i>Lecturer</i> <ul style="list-style-type: none">• Linear Algebra• Complex Variables• Calculus• Mechanics	
<i>Laboratory Instructor</i> <ul style="list-style-type: none">• Computer Networks• Data Structures		
Research Experience	<i>Research Assistant</i> Al-Khwarizmi Institute of Compute Science, University of Engineering and Technology, Lahore, Pakistan <ul style="list-style-type: none">• Research on mathematical modeling of Wireless Sensor Networks (WSNs)	2009-2010

Firmware Designer Summers 2006-09
Products Research Lab,
University of Engineering and Technology, Lahore, Pakistan

- Programming micro-controllers for industrial projects
- Design of cost effective solutions to contemporary industrial problems

Computer Skills *Languages & Software* : C, C++, Visual Studio, C51, MATLAB, Assembly(x86), Proteus, L^AT_EX , git
Operating Systems : Linux, Windows

Projects Completed During Undergraduate Studies

- Design and implementation of a 2D-Surface Area Measuring Machine
- Design and implementation of a Digital Voltmeter (Software & Hardware)
- Pulse Width Modulation using 8051 Micro Controller
- Frequency Shift Keying Modulator
- Programming & controlling an array of stepper motors via RS232
- Design of a GUI to solve $N \times N$ system of linear equations
- Implementation of a Real Time Clock
- Management of data in serial RAMs
- Device driver of a serial interface for a parallel printer
- Direct control of LCDs from a PC

Publications Sarah Salim, **Mohsin Javed**, Ali Hammad, *Honey-Bee Dancing-Inspired Architecture for Fault Tolerance in Wireless Sensor Networks*, GECCO, 2010, Oregon, USA

Sarah Salim, **Mohsin Javed**, Ali Hammad, *A Mobile Agent-based Architecture for Fault Tolerance in Wireless Sensor Networks*, CNSR, 2010, Montreal, Canada

Mohsin Javed, Muhammad Rizwan Butt, Ali Hammad, Anwar Al-Omar, *A Lexicon Based Cost Evaluation for Multi-Metric Routing Protocols in Wireless Sensor Networks*, INMIC, 2009, Pakistan

Muhammad Rizwan Butt, **Mohsin Javed**, Ali Hammad, *LABILE: Link quality-Based lexical Routing Metric for reactive routing protocols in IEEE 802.15.4 networks*, Future Tech 2010, Korea

Extra-Curricular Activities Selected class representative of undergraduates for 4 years
Ardent lover of *Indian Classical Music*
Reading essays on Philosophy
Long distance running
Member of the school dramatics society
Often act as stage secretary for various social and academic gatherings

Languages English, Urdu, Punjabi

Community Service Active member of the Blood Donor Society

Referees Available on request