

## Education

- 2006-2011 **Doctor of Philosophy in Mathematics**, University of Warwick, Coventry, UK  
2002-2004 **Master of Philosophy in Mathematics**, Quaid-i-Azam, Islamabad, Pakistan  
2000-2002 **Master of Science in Mathematics**, Quaid-i-Azam, Islamabad, Pakistan  
1997-1999 **Bachelor of Science**, Punjab Univeristy, Lahore, Pakistan.

## PhD Thesis

- Title Surfaces of general type via  $\mathbb{Q}$ -Gorenstein smoothing  
Supervisor Professor Miles Reid, FRS

## Distinctions and Awards

- 2017- Present Resource person to Virtual University of Pakistan  
2015-Present Resource person to COMSATS Virtual Campus  
2006-2011 Higher education commission fellowship for PhD  
2004 Gold medal in M.Phil.  
2002-2003 Merit Scholarship of Quaid-i-Azam University in M.Phil.  
2003-2004 Higher Education Commission merit scholarship in M.Phil.  
1999 First position in college in B.Sc.  
1997-1999 Chamber of commerce and industry fellowship in B.Sc.

## Academic Appointments

- 2012-Present **Assistant professor(temp)**, *Department of Mathematics, COMSATS Institute of Information Technology, Islamabad, Pakistan*
- 2004-2006 **Lecturer**, *Department of Mathematics, COMSATS Institute of Information Technology, Islamabad, Pakistan*
- 2007-2011 Involved in many teaching responsibilities at university of Warwick from 1<sup>st</sup> Oct 2007 to March 2011.
- 2003-2004 Junior Research Assistant from February 2003 to February 2004, Department of Mathematics, Quaid-i-Azam University, Islamabad.

Department of Mathematics, COMSATS Institute of Information Technology, Park Road  
Islamabad, Pakistan 44000

☎ 0092-51-9049 5523(Office), 00923215065007(Mobile)

✉ [sohail\\_iqbal@comsats.edu.pk](mailto:sohail_iqbal@comsats.edu.pk), [soh.iqbal@gmail.com](mailto:soh.iqbal@gmail.com)

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## Research Interests

1. Algebraic geometry
2. Group graphs

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## Research Publications

1. S. Iqbal, *Godeaux, Campedelli, and surfaces of general type with  $\chi = 4$  and  $2 \leq K^2 \leq 8$* . Mathematische Nachrichten. 2017; 00:1-12. <http://doi.org/10.1002/mana.201500445>
2. S. Iqbal, Q. Mushtaq, *Classification of Cubic Cyclic Fields* (submitted)
3. S. Iqbal, *Conics on a Godeaux Surface* (submitted)
4. S. Iqbal, M. Reid, *Moduli space of quintic surfaces containing a conic* (In progress)
5. S. Iqbal (with Fazeel Anwar and Faiza Qamar), *Classification of Quintic Cyclic Fields* (to be submitted)
6. S. Iqbal (with Fareed Ahmed, Nasir Rajput, Imran Qureshi) *Identifying Tumor cells using Space of Persistent Diagrams*, (to be submitted)

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## Workshops/Conferences Organized

1. Main organizer of a two week workshop on “Implementing Mathematical and Statistical Methods In Data Science” to be held from 6 August to 17 August 2018. ( )
2. Organized a one day workshop on “Combinatorial Commutative Algebra” held on 20<sup>th</sup> July, 2017.

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## Seminars delivered

1. Invited speaker at “Workshop on Contemporary Topics in Analysis, Algebra and Geometry”, 2017.
2. Invited speaker at “Resolution of Singularities and Related Topics. In honor of the 80th birthday of Heisuke Hironaka”, 2011 (was unable to attend).
3. Curves on a Godeaux surfaces, one day workshop at Warwick, 2011.
4. Q-Gorenstein Smoothing, postgraduate seminar series at university of Warwick, 2010.
5. Campedelli’s surface degenerating to Godeaux, Sogang university, South Korea, Sept 2009.
6. Schubert Calculus, Calf, University of Kent, Canterbury, 6-7th March 2008.
7. Action of the modular group on a subset of a cubic cyclic extension of the rational numbers, 4th international pure mathematics conference, Islamabad, 4th September 2003.

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## Teaching experience

- Spring 2018 Introduction to Algebraic Geometry, Set topology, Calculus-I
- Fall 2017 Linear Algebra, Set topology, Differential Geometry
- Spring 2017 Differential Geometry, Multivariable calculus, Calculus and Analytical Geometry
- Fall 2016 Real analysis-I, Multivariable calculus, Differential Geometry
- Spring 2016 Algebraic Topology, Differential Geometry, Calculus-III
- Fall 2015 Differential Geometry, Real Analysis-I
- Spring 2015 Calculus-III, Multivariable Calculus, Differential Geometry
- Algebraic Topology (Distance learning video lectures available at <https://www.youtube.com/playlist?list=PLM8O2eH9K-Mgc9GdK9tFumuRPIlf9vBIV> )
- Fall 2014 Algebraic Geometry, Calculus-II, Calculus and Analytical Geometry
- Spring 2014 Commutative Algebra with a view Towards Algebraic Geometry, Calculus-I, Differential Geometry, Real Analysis-II
- Fall 2013 Calculus-III, Multivariable Calculus, Mathematics-I
- Spring 2013 Algebraic Topology, Calculus-III, Real Analysis-II, Set Topology
- Differential Geometry (Distance learning video lectures available at [https://www.youtube.com/playlist?list=PLM8O2eH9K-MiaRnlh\\_yGxN94ML-FhJEJ](https://www.youtube.com/playlist?list=PLM8O2eH9K-MiaRnlh_yGxN94ML-FhJEJ) )
- Fall 2012 Real Analysis-I, Calculus-III, Multivariable Calculus
- Spring 2012 Set Topology, Calculus-I, Calculus and Analytical Geometry

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## Administrative experience

- 2016-Present Organizer Pre-PhD seminars (Mathematics)
- 2014-Present ISO 2009 Coordinator(Mathematics)
- 2017-Present Advisor to Dramatic society
- 2013-2017 Sports Incharge (Mathematics)
- 2013-2017 BS Admission Coordinator

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2013-2014 MS Admission Coordinator

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## Research Students

- 2017- Haseeb Wali, PhD student (continued).
- 2017- Muhammad Usman, Project, "Algebraic Statistics in Data Science", to be submitted.
- 2017-2018 Iqra Khan, BS Project, "Construction of Varieties Arising from Lovasz-Saks-Schrijver Ideals and their Generalizations", CIIT, Islamabad.
- 2017- 2018 Jahanzeb Sattar, BS Project, "The 27 Lines on a Cubic Surface", CIIT, Islamabad.
- 2017-2018 Muhammad Asim, BS Project, "Topological Data Analysis Using Mapper", CIIT, Islamabad.
- 2017-2017 Junaid Asmat, BS Project, on "Topological Data Analysis of DNA and RNA Sequences", CIIT, Islamabad.
- 2017-2017 Fareed Ahmed, BS Project, on "Topological Features Of Tumor Cells", CIIT, Islamabad.
- 2016-2017 Haseeb Akram, MS Project, "Construction of Fano 3-folds", CIIT, Islamabad.
- 2016-2017 Muhammad Zeeshan, MS Project, "Del Pezzo surfaces and mirror symmetry", CIIT, Islamabad.
- 2016-2017 Sidra Ashraf on, MS Project, "On number fields of degree 6", CIIT, Islamabad.
- 2015-2016 Humaira Naz, MS Project, "Del Pezzo surfaces with Log Terminal singularities" CIIT, Islamabad.
- 2015-2016 Abdul Jabbar, MS Project, "Geometry of Steiner 3-folds", CIIT, Islamabad.
- 2014-2015 Ramsha Afzal, BS Project, "Basics of Cryptography", CIIT, Islamabad.
- 2013-2014 Bilal Ahmed, BS Project, "Dynamics of Stock Market", CIIT, Islamabad.
- 2012-2013 Muhammad Dilawar Khan, BS Project, "Applications of Graph Theory", CIIT, Islamabad.

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## Academic visits

Jul-Aug 2015 University of Warwick, UK

Jul-Aug 2013 University of Warwick, UK

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Jul-Aug 2012 University of Warwick, UK

Apr-May 2010 Sogang University, South Korea

May-Jun 2009 University of Lisbon, Portugal

Aug-Sep 2009 Sogang University, South Korea

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## References

1. Professor Miles Reid, University of Warwick, UK  
Email: [Miles.Reid@warwick.ac.uk](mailto:Miles.Reid@warwick.ac.uk)
2. Professor Alessio Corti, Imperial College London, UK  
Email: [a.corti@imperial.ac.uk](mailto:a.corti@imperial.ac.uk)

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