

## Curriculum Vitae

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**Javid Iqbal**  
(M.Sc., M. Phil, Ph.D.)

### Personal Details:

Name:	<b>Javid Iqbal</b>
Father's Name:	Mohd Bashir
Date of Birth:	March 19, 1978
Nationality:	Indian
Passport Number:	M0382730
Official Address:	Department of Mathematical Sciences Baba Ghulam Shah Badshah University Rajouri, Jammu & Kashmir, India-185234
Residential Address:	Village: Dalogra, Post Office: Dalogra Near Govt. Middle School, Dalogra, Rajouri, Jammu & Kashmir, India-185134
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### Educational Qualifications:

- **Ph.D. Mathematics** (Awarded-2008)  
Department of Mathematics,  
Aligarh Muslim University, Aligarh, UP, India.  
Title of Thesis: **"A Study of Wavelet Packet Frames and Diffusion Filters."**
- **M.Phil. Mathematics** (Awarded-2005)  
Department of Mathematics,  
Aligarh Muslim University, Aligarh, UP, India.  
Title of Thesis: **"Wavelet Packets Approximation."**
- **M.Sc. Mathematics** (First Division-2002)  
Department of Mathematics,  
Aligarh Muslim University, Aligarh, UP, India.
- **Bachelor of Science** (First Division-1999)  
Govt. Post Graduate College Rajouri,  
University of Jammu, J&K, India.

## **Research Experience: 10 years**

## **Teaching Experience: 09 years**

- **Presently working as Assistant Professor (Stage –II)** in the Post Graduate Department of Mathematical Sciences, Baba Ghulam Shah Badshah University, Rajouri, J&K, India since October 7, 2010 to till date.
- Worked as Assistant Professor in Islamic University of Science Technology, Awantipora, from Aug. 2009 to Oct. 2010.
- Worked as Contractual Lecturer in Islamic University of Science Technology, Awantipora, Sept. 2008- March, 2009.

### ***Courses Taught:***

- Ordinary & Partial Differential Equations
- Number Theory
- Wavelet Analysis
- Financial Mathematics
- Real Analysis
- Discrete Mathematics
- Integral Equations
- Numerical Analysis
- Linear Algebra
- Abstract Algebra

### ***Administrative Responsibilities:***

- 1) Member, University Guest House Committee.
- 2) Superintendent of Examinations, Department of Mathematical Sciences.
- 3) Superintendent of Examinations, Department of Management Studies.
- 4) Member, Post Graduate Admission Committee.
- 5) Member, Departmental Purchase Committee.
- 6) Member, Departmental Discipline Committee.
- 7) Member, Departmental Research Committee.
- 8) Member, Departmental Project Committee.
- 9) Member, Departmental Research Committee of Master of Computer Applications.
- 10) Member, Departmental Research Committee of P.G Dept. of Information Technology.
- 11) Member, Board of Studies.
- 12) Departmental Sports In charge
- 13) Member, University selection committee of Volley Ball Team.
- 14) Member, University Awards Committee.
- 15) Member, University Anti Ragging Committee.
- 16) Departmental Co-curricular Activities In charge.
- 17) Member of various Internal Assessment Record inspection committees.

- 18) Member of various End Term Examination inspection squads.
- 19) Member of Core-Committee for first Convocation of BGSB University, December, 2012.
- 20) Member of proctor team of University.

**Additional Responsibilities:**

- 1) Design of syllabi & study material for Department of Mathematical Sciences.
- 2) Member, Departmental Project Committee.

**Events Organized:**

- 1) Convener, 6<sup>th</sup> **Baba Ghulam Shah Badshah Students Mathematics Conference**, December 21, 2016.
- 2) Convener, **Two day National Conference on "Analysis, Wavelets and their Applications"** April 23-24, 2016.
- 3) Convener, Eight Day Workshop on C-programming, April 1-9, 2016
- 4) Convener, 5<sup>th</sup> **Baba Ghulam Shah Badshah Students Mathematics Conference**, October 13, 2015.
- 5) Convener, 4<sup>th</sup> **Baba Ghulam Shah Badshah Students Mathematics Conference**, Jan. 29, 2015.
- 6) Convener, **3rd Baba Ghulam Shah Badshah Students Mathematics Conference/Competition**, Oct. 26, 2013.
- 7) Convener, **One Day National Seminar on "Applications of Mathematics to Science and Technology (AMST- 2012)"** September 29, 2012.
- 8) Convener, **One day National Workshop on "Recent Trends in Mathematics and their Applications"** March 20, 2012.
- 9) Convener, **2nd Baba Ghulam Shah Badshah Students Mathematics Conference/Competition**, Nov. 19, 2011.

**Publications:**

1. **Javid Iqbal** and M.K. Ahmad, *On Wavelet Packets Frames*, Journal of Concrete and Applicable Mathematics (JCAAM), 2008(6)(3) 279-286 (ISSN:1548-5390 PRINT, ISSN: 1559-176X ONLINE).
2. **Javid Iqbal**, *A Note on Wavelet Packet Coefficients and Frames*, International Journal of Mathematical Sciences (IJMS), 2008(7)(3-4), 207-214. (ISSN: 0972-754X)
3. **Javid Iqbal** and M.K. Ahmad, *Some Generalization of Wavelet Frames*, International Journal of Mathematical Sciences (IJMS), 2008 (7) (3-4) 237-247 (ISSN: 0972-754X).
4. **Javid Iqbal** and M.K. Ahmad, *Vector Valued Weyl-Heisenberg Wavelet Frames*, International J. of Wavelets, Multiresolution and Inf. Processing (IJWMIP), 2009(7) (5)605-615 (Print ISSN: 0219-6913 Online ISSN: 1793-690X).

5. **Javid Iqbal** and M.K. Ahmad, *Using the Sharp Operator for Edge Detection and Nonlinear Diffusion*, Berichte des Fraunhofer ITWM, Nr. 176(2009) (ISSN 1434-9973).
6. **Javid Iqbal** and Javid Ali, *Wavelet Packet Transform on  $L_p(\mathbb{R})$  Spaces*, J. Nonlinear Sci. Appl. 2013(6) 305-311 (Online ISSN: 2008-1901, Print ISSN: 2008-1898).
7. **Javid Iqbal**, *Wavelet Packet Frames on a Half Line Using the Walsh- Fourier Transform*, American Journal of Computational Mathematics, 2013( 3)(1) 66-72 ( Print ISSN: 2161-1203, Online ISSN: 2161-1211).
8. **Javid Iqbal** and M.K. Ahmad et al, *Sharp Operator Based Edge Detection*, Journal of Signal and Information Processing, 2015(6)180-189.
9. **Javid Iqbal**, Suhel Ahmed Khan and Yekini Shehus, *Mixed Quasi-Variational Inequalities Involving Error Bounds*, Journal of Inequalities and Application, 2015(2015), 1-19.( Impact factor: 0.77)
10. **Javid Iqbal**, *Some Wavelet Approximation in  $L^2(\mathbb{R})$  spaces*, International Journal of Engineering Technology Science and Research, 2015 (2)(11) 250-256. (ISSN 2394 – 3386).
11. **Javid Iqbal**, Suhel Ahmed Khan and Yekini Shehus, *Gap Function and error Bound for Random Generalized Variational Inequality Problem*, Journal of Inequalities and Application, 2016(2016), 1-17( Impact factor: 0.77).
12. Javid Iqbal, Rais Ahmad and Iqbal Ahmad, *Parametric Ordered Generalized Variational Inclusions Involving NODSM Mappings*, Advances in Nonlinear Variational Inequalities, 2016(19) (1) 88—97. (ISSN 1092-910X)
13. **Javid Iqbal**, Rais Ahmed, *A resolvent approach for solving a set valued variational inclusion problem using weak-RD set valued mapping*, The Korean Journal of Mathematics, 2016(24)(2) 199-213.
14. **Javid Iqbal**, F.A. Shah and Rustam Abass, *Numerical Solution of Singularly Perturbed Problems using Haar Wavelet Collocation Method*, Cogent Mathematics, 2016(3), 1-13. (<https://doi.org/10.1080/23311835.2016.1202504>)
15. **Javid Iqbal**, Rustam Abass, *Numerical Solution of Klein/Sine-Gordon Equations by Spectral Method Coupled with Chebyshev Wavelets*, Applied Mathematics, 2016(7 ) 2097-2109.
16. **Javid Iqbal**, Rustam Abass, *Numerical Solution of Hammerstein Integral Equation Using Chebyshev Wavelet Method*, J. Math. Comput. Sci., 2017(7)(1), 39-58.
17. **Javid Iqbal**, Chandra Shekhar, Madhu Jain and Ather Aziz Raina, *Optimal (N,F) Policy for Queue-dependent and Time-sharing Machining redundant System*, International Journal of Quality & Reliability Management, 1017(34)(6), 798-816 (<http://dx.doi.org/10.1108/IJQRM-07-2016-0105>).
18. **Javid Iqbal**, Rustam Abass and Puneet Kumar, *Solution of Linear and Nonlinear Singular Boundary Value Problems using Legendre Wavelet Method*, Italian Journal of Pure and Applied mathematics, Accepted.

19. **Javid Iqbal**, C. Shekhar and A. Raina, *Reliability Prediction of Fault Tolerant Machining System with Reboot and Recovery Delay*, International Journal of System Assurance Engineering and Management, *published*. (DOI 10.1007/s13198-017-0680-y)
20. **Javid Iqbal**, Chandra Shekhar, Madu Jain and A. Aziz, *Threshold Control Policy for Maintainability of Manufacturing System with Unreliable Workstations*, *Arabian Journal for Science and Engineering*, 2017(42), 4833-4851. (DOI :10.1007/s13369-017-2636-6).
21. **Javid Iqbal**, Chandra Shekhar, A. Aziz and Amit Kumar, *A Survey on Queening Machine System: Progress in 2010-2016*, *Yugoslav Journal of Operational Research*, 2017(27)(4) 391-412.  
DOI: :https://doi.org/10.2298/YJOR161117006R
22. **Javid Iqbal**, Mijanur Rahaman, Priyanka Gupta and Rais Ahmad  
Existence results of the system of generalized variational inequalities with multi-valued mappings, *Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas*, **Accepted**.
23. **Javid Iqbal**, Rustam Abass and Puneet Kumar, *Approximate Solution of Fractional Differential Equations using Shannon Wavelet Operational Matrix Method*, Communicated
24. **Javid Iqbal**, Rais Ahmed and Mohd Ishtyak, *Generalized Symmetric Monotone Mapping and its Application for Solving a Set-Valued Variational Inclusion Problem*, Communicated.

### Seminars/Conferences Attended:

1. Presented a research paper in the International Conference on "Analysis and its Applications(ICAA-17)", organized by Department of Mathematics, Aligarh Muslim University, Aligarh w.e.f. Nov. 20-22, 2017.
2. Presented a research paper in the International Conference on "Advances in Computational Mathematics", organized by Department of Mathematics, University of Dhaka, Bangladesh w.e.f. May 27-28. 2017.
3. Presented a research paper in the National Conference on " Toplogy, Analysis, Algebra and their Applications, organized by Department of Mathematics, SMVDUniversity, Katra, J&K, India w.e.f. March 7-8, 2017.
4. Presented a research paper in the National Conference on Recent Trends & Technology in Data Sciences & Artificial Intelligence organized by Computer Sciences & IT, Bhaderwah Campus, Univ. of Jammu w.e.f. Aug. 26-27, 2016
5. Presented a research paper in the International Conference on " Analysis and its Applications" organized by Department of mathematics, Ahi Evran University, Kirshehir, Turkey w.e.f. July 12-15, 2016.
6. Presented a research paper in the two day National Conference on "Analysis, Wavelets and their Applications" organized by Department of Mathematical Sciences, BGSB University Rajouri(J&K) India w.e.f. April 23-24, 2016.
7. Presented a research paper in the UGC sponsored National Seminar on " Emerging Trends in Data Sciences and Artificial Intelligence(DS&AI)" organized

by Department of Information Technology, BGSB University, Rajouri(J&K) India w.e.f. March 26, 2016.

8. Presented a research paper in the International conference on “ *Innovative Research in Engineering, Science and Management(ESM-2016)*” organized by Academic Science and Conference Info, held at India Habitat Centre, New Delhi w.e.f. February 28, 2016.
9. Presented a research paper in the National conference on “ *Role of Mathematics and Computer Science in Advancement of Physics(RMCSA2016)*” organized by Department of Physics, Govt. Degree College, Kathua(J&K) India w.e.f. February 26-27, 2016.
10. Presented a research paper in the National conference on “*Topological Algebra & Analysis*” organized by Department of Mathematics, Govt. Ghandi Memorial Science College, Jammu (J&K) India w.e.f. February 18-19, 2016.
11. Presented a research paper in the International conference on “*Analysis and its Applications*” held at Department of Mathematics, Aligarh Muslim University (ICAA-15) Aligarh , w.e.f. Dec. 19- 21, 2015.
12. Presented a research paper in the International conference on “*Technology Science and Management Innovation(TSMI-15)*” organized by Conference Info and M.M. PG College Fatehabad, Haryana, on Nov. 29, 2015.
13. Presented a research paper in the National conference on “*Recent Trends in Mathematical Sciences*” held at Department of Mathematics, SMVDU, Katra, J&K, w.e.f. October 08-09, 2015.
14. Presented a research paper in the International conference on “*Recent Advances in Mathematical Biology, Analysis and Applications*” held at Department of Applied Mathematics, Aligarh Muslim University (ICMBAA) Aligarh , w.e.f. June 04 - 06, 2015.
15. Presented a research paper in the National conference on “*Recent Trends In Algebra & Analysis*” held at Department of Mathematics, GGM Science College, Jammu, w.e.f. March 25-26, 2015.
16. Presented a research paper in “*International Conference on Algebra, Geometry, Analysis and their Applications (ICAGAA)*”, held at Department of Mathematics, Jamia Milia Islamia, New Delhi w.e.f Nov.27-29, 2014.
17. Presented a research paper in the National Conference on “*Recent Innovations and Advancement in Information Technology (RIAT-2014)*”, held at Department of Information Technology, BGSB University, Rajouri, J&K, India w.e.f Nov. 26-27, 2014.
18. Presented a research paper in “ *International Conference on Diffential Geometry, Functional Analysis and Applications*”, held in Department of Mathematics, Jamia Milia Islamia, New Delhi w.e.f September 08-10, 2012.
19. Presented a research paper in “*Two Day National Level Conference on New Discoveries in Mathematics and its Application*” held in MAM college, University of Jammu from Feb. 12- 13, 2011.
20. Participated in “*the International Congress of Mathematicians*”, held in Hyderabad from August 19-27, 2010
21. Presented a research paper in the *9th biennial conference of ISIAM*, held in B.M.A.S. Agra. Jan. 14-16, 2009.

22. Participated in "*All India Seminar on Advances in Environmental Science and Technology*" held at Aligarh Muslim University from 15th – 16th Feb. 2008.
23. Participated in a workshop conducted by Academic Staff College, AMU, Aligarh.
24. Participated in "*Winter School on Modeling, Computing and Simulation*" held at Department of Mathematics, IITM, Chennai from Jan.04-05, 2007.
25. Participated in "*International Conference on Computational, Mathematical and Statistical Methods*" held at Department of Mathematics, IITM, Chennai from Jan.06-08, 2007.
26. Participated in the *Nehru Yuva Kendra (NYK)* camp held in Alwar, Rajasthan.

### **Orientation/Refresher/ Winter School /Workshops Attended:**

1. Attended National Workshop on "Linux Administration and Open Source Application Softwares" Organised by Department of Computer Science, BGSB University-Rajouri, J&K, India, w.e.f. March 11-18, 2016.
2. Attended two week workshop on "*Information Literacy & Plagiarism*" held at BGSB University, Rajouri, J&K, India, w.e.f. December 1-10, 2014.
3. Attended "*2<sup>nd</sup> three week Special Winter School*" organized by the UGC Academic Staff College, Jamia Milia Islamia, New Delhi w.e.f. Dec. 24, 2013 to Jan 14, 2014.
4. Attended *Refresher course* organized by UGC Academic Staff College, University of Jammu, w.e.f. Nov 21, 2012 to Dec 11, 2012.
5. Attended *International Workshop on Wavelets, Frames and Applications*, held at Kirori Mal College, Delhi University, India w.e.f. December 15-21, 2011.
6. Attended *CIMPA School of "Non-linear Computational Geometry"*, held at Gadjah Mada University, Yogyakarta, **Indonesia** w.e.f. July 18- 29, 2011.
7. Attended one month *orientation course* organized by UGC Academic Staff College, University of Jammu, Dec., 2009.
8. Attended the "*ATM Workshop on Operator Theory*" held at ISI Bangalore, from June 11-16, 2007.
9. Attended the "*National Workshop on Fourier Analysis on Finite Groups and its Applications*" held at Department of Mathematics, Univ. of Pune, Pune Mar. 05-09, 2007.
10. Attended the "*Instructional Workshop on Wavelet Analysis*" held at Department of Mathematics, Banaras Hindu University from 22nd October- 05th November 2007.
11. Attended the *Third Annual Foundation School Part-I (3rd AFS-I )* from Dec 04-30, 2006 at I.M.Sc. Chennai (Organized by NBHM).
12. Attended the in *International Symposium on the Theory of Rings and Modules*, A.M.U., Aligarh from May 7-8, 2003.

### **Foreign Visits**

1. Attended *CIMPA School of "Non-linear Computational Geometry"*, held at Gadjah Mada University, Yogyakarta, **Indonesia** w.e.f. July 18- 29, 2011.

2. Presented a research paper in the International Conference on "Analysis and its Applications" organized by Department of mathematics, Ahi Evran University, Kirshehir, **Turkey** w.e.f. July 12-15, 2016.
3. Presented a research paper in the International Conference on "Advances in Computational Mathematics(ICACM-2017)" organized by Department of Mathematics, University of Dhaka, Bangladesh w.e.f. May 27-28, 2017.

### **Delivered Invited Talk:**

- Delivered an invited talk on "Wavelet Based Theory and its Applications" in the 2- Day National Conference on Interdisciplinary Sciences and Humanities organized by Govt. Post Graduate College, Rajouri, , Univ. of Jammu , March 15-16, 2017.
- Delivered an invited talk on "Wavelets: Theory and Applications" in the One Day State Level Science Conference organized by Govt. Degree College, Thannamandi, , Univ. of Jammu , Feb. 4, 2017.
- Delivered an invited talk on "Wavelets in Data Sciences" in the National Conference on Recent Trends & Technology in Data Sciences & Artificial Intelligence organized by Computer Sciences & IT, Bhaderwah Campus, Univ. of Jammu w.e.f. Aug. 26-27, 2016.
- Delivered invited talk on "Numerical Method" in the Eight Day Workshop on C-Programming organized by Department of Mathematical Sciences, BGSB University w.e.f. April 01-09, 2016.

### **M. Phil/Ph.D. students Supervised:**

#### **Ph.D.(02)**

1. Mr. Rustam Abass on Topic "*Numerical Solutions of Integral and Differential Equations using Wavelet Methods*", 2017.(Awarded).
2. Mr. Ather Aziz Raina on Topic "*Reliability and Maintainability Analysis of Redundant Repairable Systems*", 2017(Awarded).

#### **M.Phil (05)**

1. M.Phil. Awarded to Mrs. Sonia Gupta on "*Wavelet Approximation for Integro-Differential Equation and Wavelet Frames*" 2011.
2. M.Phil. Awarded to Ms. Saiman Koser on "*Iterative Approximation for Solving Some Classes of Variational and Variational- Like Inclusions*" 2013.
3. M.Phil. Awarded to Miss Anjum Hamid Mir on "*A Study of Fixed Point Theorems in Ordered Metric Spaces*" 2013.
4. M.Phil. Awarded to Mis Amreen Anjum on "*A Study of Gabor Frames and Gabor Dual Spline Windows*" 2015.
5. M.Phil. Awarded to Mis Roma Verma on "*A Study on Numerical Solutions of Differential Equations by Wavelet Methods*" 2015.



### **M. Phil. / Ph.D. Students under Supervision:**

1. Ms. Prinkya Gupta, is pursuing Ph.D. on *Topic* " Study on Certain Problems on Variational Inequalities and Equilibrium Problems", ( Date of Registration : 31-01-2017).
2. Ms. Shayesta Lone , Under Course Work.

**M. Sc. Project Guided (in number): 40**

### **References:**

1. Prof. Mohd Mursaleen  
Department of Mathematics  
Aligarh Muslim University, Aligarh 202 002, India  
E-mail: mursaleenm@gmail.com
2. Prof. M. K. Ahmad  
Department of Mathematics  
Aligarh Muslim University, Aligarh 202 002, India  
E-mail: ahmad\_kalimuddin@yahoo.co.in
3. Prof. Rais Ahmad  
Department of Mathematics  
Aligarh Muslim University, Aligarh 202 002, India.  
E-mail: raisain\_123@rediffmail.com

Javid Iqbal