Curriculum vitae

Dr. SAIMA JABEE
A-67, Okhla Main Market, Okhla
New Delhi-110025, India.
Contact No.: +91-9289573701
E-mail: saimajabee007@gmail.com

OBJECTIVE

To utilize my teaching skills towards a challenging career in growth oriented and leading edge that will provide mutual benefits and where from I can utilize my capabilities to the fullest benefits of the organization.

ACADEMIC QUALIFICATION

- **High School** from U.P. Board in 2004.
- **Intermediate** from U.P. Board in 2006.
- **B.Sc.** from Rohilkhand University in 2009.
- **M.Sc. from Jamia Millia Islamia, New Delhi** in 2011.
- **Ph.D. in Mathematics from Jamia Millia Islamia** (Awarded-2019).

TITLE OF THESIS/DISSERTATION

- **Ph.D. Thesis Title:** Development of techniques for analytic investigations using hypergeometric formulation.

AWARDS/FELLOWSHIPS

- **InSc Research Excellence Award** for the research paper entitled "**Analytical Properties of Touchard-Based Hybrid Polynomials via Operational Techniques**" by Institute of Scholars. (Institute of Scholars (InSc) is an emerging technical professional organization), 01-June-2020, India.

- Awarded UGC-NON-NET-fellowship from September-2015 to September-2018.

RESEARCH INTERESTS

- Special Functions and Orthogonal Polynomials
- Integral Transform and Operational Calculus
- Umbral Calculus

TEACHING EXPERIENCES

- Working as a guest faculty of Mathematics in the Department of Applied Science and Humanities, Jamia Millia Islamia, New Delhi from October 2022 to till.
- Approx one year and three months teaching experience as guest faculty of Mathematics in Jamia Millia Islamia, New Delhi from December 2020 to July 2021 and September 2021 to May 2022.
- Approx one year teaching experience as an Assistant Professor (Contractual) of Mathematics in Jamia Millia Islamia, New Delhi from August 2019 to May 2020.

I enjoy teaching and am looking forward to future teaching opportunities and I hope to have the

chance to teach a broader spectrum of courses. In particular teach high-level courses in my research area such as: Special Functions and Orthogonal Polynomials, Real Analysis, Complex Analysis and Integral Transform.

RESEARCH ACTIVITIES

Research papers:

1. M.I. Qureshi, **Saima Jabee** and Dilshad Ahamad; Some summation Theorems for truncated Clausen series and applications, *Analysis in Theory and Applications*, (2022), 1-16 **(ESCI)**.

2. M.I. Qureshi, **Saima Jabee** and Mohd Shadab; General series identities, some additive theorems on hypergeometric functions and their applications *Journal of Interdisciplinary Mathematics*, (Accepted in December 2022) **(ESCI and SCOPUS)** .

3. Seyyed Hossein Jafari Petroudi, Maryam Pirouz, **Saima Jabee** and Mohd Shadab; A new symmetric matrix approach to Fibonacci numbers and their properties, *Palestine Journal of Mathematics*, (Accepted in April 2021) **(SCOPUS)**.

4. M.I. Qureshi, Mahvish Ali, Dilshad Ahamad, **Saima Jabee** ; Maclaurin's type infinite products involving certain transcendental functions, *Tbilisi Mathematical Journal*, (Accepted in March 2021) **(ESCI)**.

5. **Saima Jabee**, M. Shadab and R.B. Paris; Certain results on Euler-type integrals and their applications, *The Ramanujan Journal*, (2020), 1-16 **(Science Citation Index)**.

6. M. Francisco, **Saima Jabee** and M. Shadab ; Analytical Properties of Touchard-Based Hybrid Polynomials via Operational Techniques, **Bulletin of Malaysian Mathematical Science Society**, (2020) **(Science Citation Index)**.

7. H. M. Srivastava, M.I. Qureshi and **Saima Jabee**; Some general series identities and summation theorems for Clausen's hypergeometric function with negative integer numerator and denominator parameters, *Journal of Nonlinear and Convex Analysis*, **21** (2020), 805-819 **(Science Citation Index)**.

8. H. M. Srivastava, M.I. Qureshi and **Saima Jabee**; General series identity, summation theorems for Gauss function with negative integral numerator, denominator parameters and applications, *Journal of Nonlinear and Convex Analysis*, **21** (2020), 463-478 **(Science Citation Index)**.

9. M. Francisco, M. Shadab and **Saima Jabee**; Some new identities involving Sheffer-Appell polynomial sequences via matrix approach, *Mediterranean Journal of Mathematics*, (2019) 16:116 **(Science Citation Index)**.

10. Junesang Choi, **Saima Jabee** and M. Shadab; Some identities associated with 2-variable truncated exponential based Sheffer polynomial sequences, *Communications of Korean Mathematical Society*, **35(2)** (2020), pp.533-546 **(ESCI and SCOPUS)**.

11. M.I. Qureshi, **Saima Jabee** and Sulakshana Bajaj; Some reduction formulae associated with Gauss and Fox-Wright hypergeometric functions, *Turkish Journal of Analysis and Number Theory*, **6(3)** (2018), 103-106 **(ESCI)**.

12. Mohd Shadab, **Saima Jabee** and Junesang Choi; An extended beta function and its applications, *Far East Journal of Mathematical Sciences*, **103(1)** (2018), 235-251 **(SCOPUS)**.

13. M.I. Qureshi, **Saima Jabee** and M. Shadab; Evaluation of some integrals involving classical polynomials of Hermite and Legendre using Laplace transform method and hypergeometric approach, *Divulgaciones Matematicas*, **18(1)** (2017), 1-9.

14. M.I. Qureshi and **Saima Jabee**; Evaluation of Certain Integrals Involving the Product of Classical Hermite's Polynomials Using Laplace Transform Technique and Hypergeometric Approach, *Analysis in Theory and Applications*, **33(4)** (2017), 354-364 **(ESCI)**.

15. M.I. Qureshi, **Saima Jabee** and Sulakshana Bajaj; Some summation theorems for Clausen's terminating hypergeometric series, *Asia Pacific Journal of Mathematics*, **4(2)** (2017), 154-158, ISSN 2357-2205.

16. M.I. Qureshi, **Saima Jabee** and Dilshad Ahamad; Evaluation of some explicit summation formulae for truncated Gauss function and applications(Accepted in TWMS) **(ESCI)**.

17. M.I. Qureshi, Mahvish Ali, Dilshad Ahamad and **Saima Jabee**; Certain Laurent type linear and bilateral generating relations (Accepted in Tbilisi Mathematical Journal) **(ESCI and SCOPUS)**.

18. M.I. Qureshi and **Saima Jabee**; Generalizations of some novel integrals associated with classical orthogonal polynomials of Legendre, Laguerre and Jacobi, using hypergeometric functions approach (Communicated).

19. M.I. Qureshi, **Saima Jabee** and M. Shadab; Truncated Gauss hypergeometric series and its application in digamma function (Communicated).

20. M.I. Qureshi and **Saima Jabee** ; On summation theorem for ${}_4F_3[-m, \alpha, \beta, 1+\lambda; \lambda, \gamma, 2+\alpha, \beta, \gamma-\gamma-m; 1]$ with applications(Communicated).

Work in Progress:

• Identities for some mixed type hybrid polynomials via determinantal approach with their applications, and some summation theorems for hypergeometric series.

• New identities involving products of hypergeometric functions via fractional calculus technique.

International Collaborations:

• Prof. Francisco Marcellan, Departamento de Matematicas, Universidad Carlos III de Madrid, Spain. (Email: pacomarc@ing.uc3m.es)

• Prof. Richard Bruce Paris, ivision of Computing and Mathematics, Abertay University, Dundee DD1 1HG, UK. (Email: r.paris@abertay.ac.uk)
• Prof. Junesang Choi, Department of Mathematics, Dongguk University, Gyeongju 38066, Republic of Korea. (Email: junesang@mail.dongguk.ac.kr)
• Prof. Hari Mohan Srivastava, Department of Mathematics and Statistics, University of Victoria, Victoria, British Columbia V8W 3R4, Canada. (Email: harimsri@math.uvic.ca).

Talks in International/National Conferences:

• Analytical properties of orthogonal polynomials via matrix approach, International Conference on Recent Advancements in Science and Technology, Glocal University, Saharanpur, 11-12 November, 2020.

Oral Presentation in International/National Conferences:

• On summation theorem for terminating ${}_4F_3$ series with unit argument and applications, International Conference on Special Functions and Applications, Babu Banarasi Das University, Lucknow, U.P. (ICSFA-2020), 22-23-December, 2020.

• An extended beta function and its applications, International Conference on Frontiers in Industrial and Applied Mathematics, National Institute of Technology, Hamirpur, India, 26-27- April, 2018.

• Some new summation theorems on Gauss' hypergeometric series with negative integral parameters and their application in Mellin transforms, International Conference on Applicable Mathematics, Motilal Nehru College, University of Delhi, India, 19-20-February, 2018.

• Evaluation of some novel integrals involving classical Hermite polynomials using hypergeometric approach, International Conference on Special Functions and Their Applications, Jamia Millia Islamia, New Delhi (ICSFA-2016), 09-11-September, 2016.

Participated in International/National Conferences:

• An International Conference on Analysis and its Applications, 19-21 December-2015, Aligarh Muslim University
• A National Conference on Recent trends of research in Mathematics and applications in diverse field, 03-05 November-2016, TDPG College, Jaunpur.

• National workshop on Treasures of great Indian mathematician Srinivasa Ramanujan, T. D. P. G. College , Jaunpur, India, 03-07-Oct., 2016.

REFEREED FOR

• Peer Reviewer for Journal of the Egyptian Mathematical Society, ISSN 2090-9128. [SCOPUS, ESCI Indexed]

MEMBER OF SCIENTIFIC ORGANISATION

• Life time member of Society for Special functions and their applications.

• Life time member of Institute of Scholars. (Institute of Scholars (InSc) is an emerging technical professional organization).

COMPUTER SKILLS

• Languages : C, C++, MATLAB, Mathematica
• Operating System : WIN 7.
• Office Work : MS Word, Excel, Power Point

STRENGTHS

• To Help the people
• Positive Attitude
• Hard Working
• Punctuality
• Responsibility
• Believe in Almighty

HOBBIES

• Playing Cricket
• Surfing
• Listening Music

PERSONAL PROFILE

• Father's Name : Mohd Abid
• Mother's Name : Mrs. Nasreen Jabee
• Date of Birth : 20th August 1989
• Gender : Female
• Marital Status : Married
• Nationality : Indian
• Languages Known : English, Hindi & Urdu.

REFERENCES

Prof. M.I. Qureshi
Department of Applied Sciences
and Humanities, Jamia Millia Islamia,
New Delhi-110025.
e-mail: miqureshi_delhi@yahoo.co.in

Prof. M.A. Pathan
Aligarh Muslim University
Aligarh, India.
e-mail: mapathan@gmail.com.

Prof. J. Choi
Department of Mathematics
Dongguk University
Gyeongju 38066, Korea
e-mail: junesang@mail.dongguk.ac.kr.