

CURRICULUM VITAE

JUGAL KISHORE PRAJAPAT

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Personal Details:

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| 1. Full name: | JUGAL KISHORE PRAJAPAT |
| 2. Date of birth: | 29-04-1976 |
| 3. Gender: | Male |
| 4. Country of residence and nationality: | India, Indian |
| 5. Affiliation: | Department of Mathematics
Central University of Rajasthan
Bandersindri, Kishangarh-305801
Dist.-Ajmer, Rajasthan, INDIA |

Employment:

1. April 2012- Till Date: Associate Professor at Central University of Rajasthan, Ajmer, Rajasthan
2. Aug. 2009- April 2012: Assistant Professor at Central University of Rajasthan, Ajmer, Rajasthan
3. Sept. 2008- July 2009: Assistant Professor at Bhartiya Institute of Engineering and Technology, Rajasthan
4. Sept. 2002- Sept. 2008: Assistant Professor, Lecturer (senior scale) and Lecturer at Sobhasaria Engineering College, Rajasthan
5. Aug. 2000- Sept. 2002: Lecturer at Stani Memorial College of Engineering and Technology, Rajasthan

Education:

1. 2003-2007: Ph.D. in Mathematics from university of Rajasthan, India
2. 1996-1998: M.Sc. in Mathematics with 70.8% marks from university of Rajasthan, India
3. 1993-1996: B. Sc. in Mathematics with 70.69% marks from M. D. S. University, India

Research:

1. **Research Interests:** Geometric Function Theory, Fractional Calculus and Special Functions
2. **Research Projects:** Project titled “Investigation of Geometric Properties of Certain Classes of analytic functions” funded by UGC

Research Publications: Total 43 publications

1. H. M. Srivastava, **J. K. Prajapat**, Georgia Irina Oros and Roxana Sendrutiu, Geometric Properties of a Certain General Family of Integral Operators, *Filomat*, To appear.
2. **J. K. Prajapat**, R. K. Raina and J. Sokol, On a Hurwitz-Lerch zeta type function and its applications to certain classes of analytic functions, *Bulletin of the Belgian Mathematical Society - Simon Stevin*, To appear.
3. **J. K. Prajapat** and Ambuj Mishra, Sufficient conditions for certain subclasses of meromorphic multivalent functions, *Bulletin of Mathematical Analysis and Applications*, 5(1)(2013), 80-85.
4. Poonam Sharma, **J.K. Prajapat** and R.K. Raina, Certain Subordination results involving a generalized multiplier transformation operator, *Journal of Classical Analysis*, 2(1)(2013), 85-106.
5. **J. K. Prajapat** and Ritu Agarwal, Some results on certain class of analytic functions based on differential subordination, *Bulletin of the Korean Mathematical Society*, 50(1)(2013), 1–10.
6. **J. K. Prajapat** and T. Bulboaca, Double subordination preserving properties for a new generalized Srivastava-Attiya integral operator, *Chinese Annals of Mathematics, Series B*, 33(4)(2012) 569-582.
7. **J. K. Prajapat**, Inclusion properties for certain class of analytic functions involving multiplier transformation operator, *Journal of Classical Analysis*, 1(2012) 35-42.
8. **J. K. Prajapat** and M. K. Aouf, Majorization problem for certain class of p-valently analytic function defined by generalized fractional differintegral operator, *Computers and Mathematics with Applications*, 63 (2012) 42–47
9. **J. K. Prajapat**, Subordination and superordination preserving properties for generalized multiplier transformation operator, *Mathematical and Computer Modelling*, 55 (2012), 1456-1465
10. **J. K. Prajapat**, R. K. Raina and J. Sokol, Dependence conditions for analytic functions under fractional differintegral operators, *Mathematical Science Research Journal*, 15(12)(2011), 333-340.
11. **J. K. Prajapat**, Certain geometric properties of normalized Bessel functions, *Applied Mathematics Letters*, 24 (2011) 2133–2139

12. **J. K. Prajapat** and R. K. Raina, On a certain subordination results and its generalizations, *Bulletin of Mathematical Analysis and Applications*, 3(1) (2011), 116-120.
13. **J. K. Prajapat** and R. K. Raina, Sufficient Conditions of Starlikeness for Fractional Differential Operator, *Demonstratio Mathematica*, XLIII (4) (2010), 805-813.
14. **J. K. Prajapat** and R. K. Raina, Some results on certain classes of multivalently analytic functions based on differential subordination involving a convolution structure, *Mathematica Slovaca*, 60(4)(2010), 471-484.
15. **J. K. Prajapat** and R. K. Raina, On subordination results for certain classes of analytic functions with a convolution structure, *Mathematica Scandinavica*, 106(2)(2010), 250-266.
16. **J. K. Prajapat**, Some sufficient conditions for certain class of analytic and multivalent function, *Southeast Asian Bulletin of Mathematics*, 34 (2010), 357-363.
17. **J. K. Prajapat** and R. K. Raina, Some applications of differential subordination to a general class of multivalently analytic functions involving a convolution structure, *Mathematics Journal of Okayama University*, 52(2010), 147-158.
18. **J. K. Prajapat** and R. K. Raina, Certain Subclasses of Analytic Functions Involving Salagean Operator, *Italian Journal of Pure and Applied Mathematics*, 27(2010), 91-98.
19. **J. K. Prajapat** and S. Kant, Some generalized inequalities Involving the q -Gamma function, *Journal of Inequalities in Pure and Applied Mathematics*, 10(4)(2009), Article 120, pp. 1-4.
20. **J. K. Prajapat**, Some Inclusion properties for Certain Subclasses of Strongly Starlike and Strongly Convex Functions associated with the Dziok-Srivastava operator, *Tamsui Oxford Journal of Mathematical Sciences*, 25(4), 2009, 393-405.
21. **J. K. Prajapat** and R. K. Raina, Subordination results for certain classes of multivalently analytic functions with a convolution structure, *East Asian Mathematical Journal*, 25(2) (2009), 1-14.
22. **R. K. Raina** and J. K. Prajapat, On a certain new subclass of multivalently analytic functions, *Mathematica Balkanica*, 23 (2009), Fasc. 1-2, 97-110.
23. **J. K. Prajapat** and R. K. Raina, Certain results on differential subordinations for some classes of multivalently analytic functions associated with the convolution structure, *Bulletin of the Belgium Mathematical Society – Simon Stevin*, 16(1)(2009), 153-165.
24. **J. K. Prajapat** and S. P. Goyal, Applications of Srivastava- Attiya operator to the class of strongly starlike and strongly convex functions, *Journal of Mathematical Inequalities*, 3(1)(2009), 129-137.

25. **J. K. Prajapat** and R. K. Raina, Subordination theorem for a certain subclass of analytic functions involving a linear multiplier operator, *Indian Journal of Mathematics*, 51(2)(2009), 267-276.
26. **S. P. Goyal** and J. K. Prajapat, A new class of meromorphic multivalent functions involving certain linear operators, *Tamsui Oxford Journal of Mathematical Sciences*, 25(2)(2009), 167-178
27. **J. K. Prajapat** and R. K. Raina, Some applications of differential subordination to a general class of multivalently analytic functions involving a convolution structure, *Bulletin of Mathematical Analysis and Applications*, 1(1)(2009), 1-14.
28. **J. K. Prajapat**, Inclusion and neighborhood properties for certain subclasses of analytic involving fractional calculus operators, *Bulletin Pure and Applied Mathematics*, 3(2) (2009), 170-174.
29. **J. K. Prajapat**, Subordination theorem for a family of analytic functions associated with the convolution structure, *Journal of Inequalities in Pure and Applied Mathematics*, 9(4)(2008), Article 102, 8 pp.
30. **J. K. Prajapat**, Inclusion and neighborhood properties for certain subclasses of analytic functions involving fractional calculus operators, *Mathematical Science Research Journal*, 12(7)(2008), 159-163.
31. **J. K. Prajapat** and R. K. Raina, Inclusion and neighborhood properties for certain classes of multivalently analytic functions associated with the convolution structure, *International Journal of Mathematics and Mathematical Sciences*, Volume 2008, Article ID 312582 (2008), 9 pp.
32. **J. K. Prajapat**, Inclusion properties for certain classes of analytic functions involving a family of fractional calculus operators, *Fractional calculus and Applied Analysis*, 11(1)(2008), 25-31.
33. S. Kant and **J. K. Prajapat**, On double inequalities involving the Gamma function, *Journal of Rajasthan Academy of Physical Sciences*, 7(2) (2008), 197-200
34. **J. K. Prajapat**, Neighborhood properties for certain subclasses of analytic functions involving Wright generalized hypergeometric functions, *Bulletin Pure and Applied Mathematics*, 2 (1) (2008), 57-62.
35. **J. K. Prajapat**, R. K. Raina and H. M. Srivastava, Some inclusion properties for certain classes of strongly starlike and strongly convex functions involving a family of fractional integral operators, *Integral Transforms and Special Functions*, 18(9)(2007), 639-651.
36. **J. K. Prajapat**, R. K. Raina and H. M. Srivastava, Inclusion and neighborhood properties for certain classes of multivalently analytic functions associated with the convolution structure, *Journal of Inequalities in Pure and Applied Mathematics*, 8(1)(2007), Article 7,8 pp.

37. S. P. Goyal and **J. K. Prajapat**, Inclusion and neighborhood properties for certain classes of analytic and multivalent functions of complex order involving generalized linear operator, *Journal of Rajasthan Academy of Physical Sciences*, 6 (2007), 117-126.
38. S. P. Goyal and **J. K. Prajapat**, Certain Results for Unified Riemann Zeta function, *Bulletin Pure and Applied Mathematics*, 1 (1) (2007), 6-14.
39. S. P. Goyal and **J. K. Prajapat**, Finite Integrals involving a general sequence of functions and H-function, *Acta Ciencia Indica*, XXXI M(1) (2005), 85-92.
40. S. P. Goyal and **J. K. Prajapat**, A new class of Analytic p-valent Functions with negative coefficients and fractional calculus operators, *Tamsui Oxford Journal of Mathematical Sciences*, 20(2) (2004), 175-186.
41. S. P. Goyal and **J. K. Prajapat**, A note on Raina-Nahar multivariable functions, *South East Asian Journal of Mathematics and Mathematical Sciences*, 2(2)(2004), 31-36.
42. **S. P. Goyal and J. K. Prajapat**, Certain formulas for Unified Riemann Zeta and related functions, *Journal of Rajasthan Academy of Physical Sciences*, 3(4)(2004), 267-274.
43. J. K. Prajapat and **S. P. Goyal**, New class of Analytic functions involving certain fractional differ-integral operators, Proceedings of fourth Annual Conference of the Society for Special Functions and Their Applications ,Feb 20-22, 2003 (2003), Jaipur, India.
44. J. K. Prajapat and **S. P. Goyal**, New class of Analytic functions involving certain fractional differ-integral operators, Proceedings of fourth Annual Conference of the Society for Special Functions and Their Applications ,Feb 20-22, 2003 (2003), Jaipur, India.

International and National Research Collaborations:

1. Prof. H. M. Srivastava, University of Victoria, Canada
2. Prof. T. Bulboaca, Babes-Bolyai University, Romania
3. Prof. J. Sokol, Rzeszow University of Technology, Poland
4. Prof. M. K. Aouf, Mansoura University, Egypt
5. Prof. S. P. Goyal, University of Rajasthan
6. Prof. R. K. Raina, M. P. University of Agriculture & Technology, Udaipur
7. Dr. G. I. Oros, University of Oradea, Romania
8. Dr. Roxana Sendrutiu, University of Oradea, Romania
9. Dr. Poonam Sharma, Lukhnow University, Lukhnow
10. Dr. Poonam Sharma, Lukhnow University, Lukhnow

Reviewer & Referee:

1. Reviewer for Mathematical Reviews (American Mathematical Society)

2. Referee of several journals including

1. Computers and Mathematics with Applications, Elsevier
2. Applied Mathematics and Computation, Elsevier
3. Applied Mathematics Letters, Elsevier
4. Acta Mathematica Scientia, Elsevier
5. International Journal of Mathematics and Mathematical Sciences, Hindawi Publ. Corp.
6. Abstract and Applied Analysis, Hindawi Publ. Corp.
7. International Journal of Analysis, Hindawi Publ. Corp.
8. Hacettepe Journal of Mathematics and Statistics, Hacettepe University, Turkey.
9. Bulletin of Mathematical Analysis and Applications, University of Prishtina, Kosova
10. Fizika A&B, Croatian Physical Society
11. International Journal of Mathematics and Statistics, India
12. Journal of Classical Analysis, Ele Math Publ., Croatia
13. Journal of Mathematical Inequalities, Ele Math Publ., Croatia
14. Kyungpook mathematical Journal, Korean
15. Journal of the Egyptian Mathematical Society, Elsevier
16. Journal of the Egyptian Mathematical Society, Elsevier

Professional Development activities:

Organization of conferences and workshops:

1. Instructional School for Lecturers on “Advanced Complex Analysis”, 24th June 2013 to 13th July 2013 at Central University of Rajasthan.
2. Workshop “Complex Analysis and related topics”, 15-19 March 2013 at Central University of Rajasthan.
3. National Seminar on “Advances in Complex Analysis and Special Functions”, March 12-13, 2011 at Central University of Rajasthan.
4. AICTE sponsored summer school on “Instructional Planning and delivery” 14-25 July 2008, at Sobhasaria Engineering College.

Participation in Conference Training/Workshop/Seminar:

1. Short term course on “Computational Techniques on Engineering and Sciences”, Malviya National Institute of Technology, Jaipur, 1-5 April 2013.
2. International Conference “The Legacy of Srinavasa Ramanujan”, University of Delhi, 17-22 Dec. 2012.
3. National Mathematical Meeting “Almora Mathematical Surveys”, Kumaun University, Almora, 3-5 Sept. 2012.
4. Advanced Training in Mathematics for Lectures in “Geometric Complex Analysis”, March 21-April 2, 2011 at Delhi University.

5. 76th Annual Conference of the Indian Mathematical Society, 27-30 Dec. 2010 at SVNIT, Surat.
6. 12th International Conference of the International Academy of Physical Sciences, 22-24 Dec. 2010 at University of Rajasthan, Jaipur.
7. 21st Annual Conference of Rajasthan Ganita Parishad on Recent Trends in Mathematics and Actuarial Sciences, 20-21 Feb. 2010 at MNIT, Jaipur.
8. Faculty Development Programme, Sobhasaria Engineering College, 2nd Feb. 2008-16th Jan. 2008.
9. International Conference of the Society for Special Functions and their Applications, 15-16 Dec. 2007 at MNIT, Jaipur.
10. Faculty Development Programme on Teaching and Learning, Sobhasaria Engineering College, Aug.-Nov., 2006.
11. Short term programme on Quality Assurance in Technical Education, National Institute of Technical Teacher's Training and Research, Chandigarh, May 2-6, 2005.
12. 70th Annual Conference of the Indian Mathematical Society, 26-29 Dec. 2004 at JNV University, Jodhpur.
13. 5th Annual Conference of the Society for Special Functions and their Applications, 8-11 Feb. 2004 at Lucknow.
14. 4th Annual Conference of the Society for Special Functions and their Applications, 20-22 Feb. 2003 at University of Rajasthan, Jaipur.
15. Short term training programme on "Development of communications skills for technical students: An interactive approach", 29 Oct - 3 Nov, 2003 at IET, Alwar.
16. Short term training programme on "Development of communications skills for technical students: An interactive approach", 29 Oct - 3 Nov, 2003 at IET, Alwar.

Invited Lectures:

- Instructional School for Lecturers "Advanced Complex Analysis", 24th June-13th July 2013 at Central University of Rajasthan.
- The Workshop "Ramanujan Mathematics Awareness Programme", 9th March 2013 at Global Technical Campus, Jaipur.
- UGC series of lectures at Dungar College, Maharaja Ganga Singh University, Bikaner, 21-22 Feb. 2012.
- Marudhar Engineering College, Bikaner on 22nd Feb. 2012.
- Marudhar Engineering College, Bikaner on 22nd Feb. 2012.

Post Graduate thesis supervision:

S. No.	Name of student	Title of Thesis	Year of Completion
1	Sanjay Lamba	An Overview of Kratzel function and some of its generalizations	2011
2	Sandeep Bhaskar	On generalized fractional kinetic equations	2012
3	Rubal Rajora	H-Function: Conditions of Convergences	2012
4	Vinay Kumar	Application of Mellin-Barnes integral representation of certain special functions in signal processing	2012
5	Alok Singh	A study of second and third order Hankel determinant for close-to-convex function	2013
6	Vinay Kumar	A Study of subclasses of Bi-univalent functions	2013
7	Mahipal	A study of Quasi-subordination for certain class of analytic functions involving Salagean operator	2013

Membership of professional and academic societies:

1. Academic Council of the Central University of Rajasthan, Rajasthan
2. Research Group in Mathematical Inequalities and Applications, Australia
3. Indian Mathematical Society
4. Ramanujan Mathematical Society
5. Society for Special Functions and their Applications
6. Society for Special Functions and their Applications
- 7.

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