Dr. Ravi Dwivedi

Curriculum Vitae

Assistant Professor,
Govt. Naveen College,
Bhairamgarh, Dist. Bijapur
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Educational qualifications

Ph. D.	:	Awarded entitled **"Lie Theory, Matrix Theory and Special Functions"** on July 13, 2020 at Department of Mathematics and Astronomy, University of Lucknow, Lucknow.
M. Sc.	:	Passed from CSJM University, Kanpur with First division (60.10%) in 2012.
B.Sc.	:	Passed from CSJM University, Kanpur with First division (60.37%) in 2009.
Intermediate	:	Passed from U.P. Board with Second division (55.80%) in 2006.
High School	:	Passed from U.P. Board with First division (65.80%) in 2004.

Awards

Junior Research Fellowship	:	July 1, 2015–June 30, 2017.
Senior Research Fellowship	:	July 1, 2017–June 30, 2020.

Research Areas/Interests

Research Areas:	Algebra
	Analysis
Research Interests:	Special matrix functions
	q-Special matrix functions
	Representation and q-representation theory of Lie algebras

Publications

1. **Ravi Dwivedi**, Vivek Sahai: On the hypergeometric matrix functions of two variables, **Linear and Multilinear Algebra**, Volume 66, Number 9, 2018, 1819–1837. (Impact Factor 1.112).

2. **Ravi Dwivedi**, Vivek Sahai: On the hypergeometric matrix functions of several variables. **Journal of Mathematical Physics**, Volume 59, Number 2, 2018, 023505, 15pp. (Impact Factor 1.317).

3. **Ravi Dwivedi**, Vivek Sahai: On the basic hypergeometric matrix functions of two variables. **Linear and Multilinear Algebra,** Volume 67, Number 1, 2019, 1–19. (Impact Factor 1.112).

4. **Ravi Dwivedi**, Vivek Sahai: Models of Lie algebra $sl(2, C)$ and special matrix functions by means of a matrix integral transformation. **Journal of Mathematical Analysis and Applications**, Volume 473, Number 2, 2019, 786–802. (Impact Factor 1.220).

5. **Ravi Dwivedi**, Vivek Sahai: On certain properties and expansions of zeta matrix function, digamma matrix function and polygamma matrix function. **Quaestiones Mathematicae**, Volume 43, Number 1, 2020, 97–105. (Impact Factor 1.049).

6. **Ravi Dwivedi**, Vivek Sahai: A note on the Appell matrix functions. **Quaestiones Mathematicae**, 43 (2020), no. 3, 321–334. (Impact Factor 1.049).

7. **Ravi Dwivedi**, Vivek Sahai: On the matrix versions of q-zeta function, q-digamma function and q-polygamma function. **Asian–European Journal of Mathematics** (2019), `https://doi.org/10.1142/S1793557120501429`.

8. **Ravi Dwivedi** and Vivek Sahai: On certain q-hypergeometric matrix functions of several variables and their matrix q-difference equations, **Journal of Difference Equations and Applications**, Volume 25, Number 11, 2019, 1531–1548. (Impact Factor 1.162).

9. Bayram Çekim, **Ravi Dwivedi**, Vivek Sahai, Ayman Shehata: Certain Integral Representations, Transformation Formulas and Summation Formulas Related to Humbert Matrix Functions. **Bull. Braz. Math. Soc., New Series** (2020). https://doi.org/10.1007/s00574-020-00198-6. (Impact Factor 0.515).

10. **Ravi Dwivedi**, Vivek Sahai: On q-special matrix functions using quantum algebraic techniques. **Reports on Mthematical Physics**, 85 (2020), no. 2, 253–265. (Impact Factor 0.860).

11. **Ravi Dwivedi**, Vivek Sahai: Lie algebras of matrix difference differential operators and special matrix functions. **Advances in Applied Mathematics**, 122 (2021), 102109, 19pp.

Accepted for Publication

1. **Ravi Dwivedi**, Reshma Sanjhira: On the matrix function $_pR_q(A, B; z)$ and its fractional calculus properties.

2. **Ravi Dwivedi**, Reshma Sanjhira: On the q-hypergeometric matrix function $_r\Phi_s(A, B; q; z)$ and its q-fractional calculus.

Communicated for publication

1. **Ravi Dwivedi**, Vivek Sahai: On certain Kampé de Fériet like hypergeometric matrix functions
2. **Ravi Dwivedi**, Vivek Sahai, Sarasvati Yadav: On (p,q)-hypergeometric matrix functions and its fractional calculus
3. **Ravi Dwivedi**, Ashish Verma: On the matrix version of new extended Gauss, Appell and Lauricella hypergeometric functions
4. **Ravi Dwivedi**, Ashish Verma, Vivek Sahai: On the recursion formulas of Lauricella matrix functions

Teaching Experience

1. I have taught at Naraina Group of Institution, Panki Kanpur, from September 2012 to July 2014.
2. During the period of my Ph.D, I taught Matrices and Differential Equations for B.Sc. I year students at University of Lucknow in the academic session 2017–2018.
3. One odd semester of session 2021–2022 worked as a guest faculty at NIT Kurukshetra, Kurukshetra.
4. From Oct 15, 2021 to June 06, 2022 worked as a guest faculty at Ambedkar Institute of Technology for Handicapped, Kanpur.
5. From June 07, 2022, working as an assistant professor at Govt Naveen College Bhirmgarh, Bijapur (CG).

Computer skills

Computational: Matlab, Mathematica

Typing: MS Office, Latex

Membership of Professional Bodies

1. Life time member of Indian Science Congress Association.

Workshops/Conferences participation and presentation

1. Presented a paper in International symposium on Algebra, Analysis and their applications organized by Department of mathematics, Integral university Lucknow, India, "On the hypergeometric matrix functions of two variables"(2017).
2. Presented a paper at National Conference on "Recent Advances in Pure and Applied Mathematics" organized by Department of Applied Science M.M.M. University of Technology Gorakhpur (U.P.), India, "On the basic hypergeometric matrix functions of two variables"(2018).

3. Presented a paper in International conference on "Algebra and Applied Analysis" organized by Department of mathematics, Integral university Lucknow, India, "On the hypergeometric matrix functions of several variables"(2018).

4. Participated in Advanced Instructional School (AIS) on Lie algebras held at Harish-Chandra Research Institute, Prayagraj (Allahabad) during December 10-29, 2018.

References

1. Prof. **Vivek Sahai**; Department of Mathematics and Astronomy, University of Lucknow, Lucknow-226007, India.

   Email: sahai_vivek@hotmail.com

2. Prof. **Meena Sahai**; Department of Mathematics and Astronomy, University of Lucknow, Lucknow-226007 India.

   Email: meena_sahai@hotmail.com

Personal details

Father's name :	Shri Mahesh Kumar Dwivedi
Mother's name :	Shrimati Sunita Dwivedi
Date of birth :	25th January, 1990
Nationality :	Indian
Permanent address :	Panka Bahadur Nagar, Bhaunti Pratappur, Kanpur Nagar, Uttar Pradesh - 209305 India.
Current Address :	Owner name: Dhairya Dewangan, Area: Dewangan Para, Shivaji ward, Town: Bhairamgarh, Dist: Bijapur (CG), 494450, India.

I hereby affirm that the information provided above is accurate and true to my knowledge.

Date:

Place: Kanpur   (Ravi Dwivedi)