


## CURRICULUM VITAE

<b>Name:</b>	<b>Dr. Sunil Kumar Singh</b>	
<b>Designation:</b>	<b>Associate Professor</b>	
<b>Department:</b>	<b>Mathematics</b>	
<b>School:</b>	<b>School of Physical &amp; Decision Science</b>	
<b>University:</b>	<b>Babasaheb Bhimrao Ambedkar University</b>	
<b>Specialisation &amp; Research Interests:</b>	<b>Wavelet Analysis, Integral Transforms and Distribution Theory</b>	
<b>Email IDs (Official &amp; Personal)</b>	<b>sks_math@yahoo.com</b>	
<b>Mobile No.:</b>	<b>+91-9436895841</b>	
<b>Address:</b>	<b>Department of Mathematics, Babasaheb Bhimrao Ambedkar University, Lucknow - 226025</b>	

### 2. ACADEMIC QUALIFICATION (in reverse Chronological order):

<b>Degree</b>	<b>Year</b>	<b>University / Board</b>
Ph.D.	2007	Banaras Hindu University, Varanasi, U.P.
M.Sc.	2001	Banaras Hindu University, Varanasi, U.P.
B.Sc.	1998	Purvanchal University, Jaunpur, U.P.
Intermediate	1995	U.P. Board
High School	1993	Bihar Board

### 3. ANY OTHER QUALIFICATION:

CSIR-NET

### 4. PROFESSIONAL EXPERIENCE:

<b>Organisation/Institute/University</b>	<b>Position Held</b>	<b>Duration</b>
Udai Pratap Autonomous College, Varanasi, U.P.	Lecturer	27-09-2006 to 05-08-2008 (on Ad-hoc)
Sikkim Manipal Institute of Technology, Majitar, East Sikkim.	Lecturer	06-08-2008 to 22-09-2008
Rajiv Gandhi University, Itanagar, Arunachal Pradesh.	Assistant Professor	25-09-2008 to 26-07-2017

Mahatma Gandhi Central University, Motihari, Bihar	Associate Professor	28-07-2017 to 27-07-2020
Mahatma Gandhi Central University, Motihari, Bihar	Professor	28-07-2020 to 18-01-2021
Babasaheb Bhimrao Ambedkar University, Lucknow	Associate Professor	19-01-2021 to till date

## 5. ADMINISTRATIVE ASSIGNMENTS:

Position Held	Duration	Nature of Work
Head, Department of Mathematics, Mahatma Gandhi Central University	From 25 <sup>th</sup> August 2017 to 18 <sup>th</sup> January 2021	To maintain the academic and administrative activities for the smooth functioning of the department
Dean, School of Mathematics and Statistical Sciences, Mahatma Gandhi Central University	From 25 <sup>th</sup> August 2017 to 23 <sup>rd</sup> May 2019	To maintain the academic and administrative activities for the smooth functioning of the School.

## 6. COURSES TAUGHT:

Real Analysis, Complex Analysis, Functional Analysis, Measure Theory, Wavelet Analysis

## 7. RESEARCH SUPERVISION:

- A. Ph.D.:**
- i. **Awarded** : **01**
  - ii. **Submitted** : **01**
  - iii. **Ongoing** : **02**
- B. M.Phil.:**
- i. **Awarded** : **02**
  - ii. **Submitted** : **Nil**
  - iii. **Ongoing** : **Nil**

## 8. CONTRIBUTION TO CORPORATE LIFE OF THE UNIVERSITY:

- Chairperson of Board of Studies of Department of Mathematics, Mahatma Gandhi Central University from 25<sup>th</sup> August to 18<sup>th</sup> January 2021.
- Chairperson of School Board of School of Mathematics and Statistical Sciences, Mahatma Gandhi Central University from 31<sup>st</sup> October 2017 to 23<sup>rd</sup> May 2019
- Member of Academic Council of Mahatma Gandhi Central University from 18<sup>th</sup> November 2019 to 18<sup>th</sup> January 2021.

## 9. MEMBERSHIP OF SOCIETIES / PROFESSIONAL BODIES:

- Life Member of Mathematical Society, Banaras Hindu University

## 10. PUBLICATIONS: PAPERS IN REFEREED/PEER REVIEWED JOURNALS:

1. R. S. Pathak and S. K. Singh, The wavelet transform on spaces of type  $S$ , Proceedings of the Royal Society of Edinburgh, ISSN 0308-2105 (Print), 1473-7124 (Online), Vol. 136A (2006), pp. 837–850 (**Impact Factor 1.009**)
2. R. S. Pathak and S. K. Singh, The wavelet transform on spaces of type  $L_p$ , Advances in Algebra and Analysis, ISSN 0973-2306, Vol. 1(3) (2006), pp. 183-194.
3. R. S. Pathak and S. K. Singh, Boundedness of the wavelet transform in certain function Spaces, Journal of inequalities in pure and applied mathematics, ISSN 1443-5756, Vol.8 Issue 1, Article 23, 2007.
4. R. S. Pathak and S. K. Singh, Infraexponential Decay of Wavelets, Pro. National Academy of Sciences, India Section A, ISSN 0369-8203 (Print) 2250-1762 (Online), Vol. 78, Pt II (2008), pp. 155-162 (**Impact Factor 0.921**).
5. S. K. Singh, The  $S$ -transform on spaces of type  $S$ , Integral Transforms and Special Functions, ISSN 1065-2469 (Print)1476-8291(Online), Vol. 23, No. 7 (2012), pp. 481-494 (**Impact Factor 0.705**).
6. S. K. Singh, The  $S$ -transform on spaces of type  $W$ , Integral Transforms and Special Functions, ISSN 1065-2469 (Print) 1476-8291(Online), Vol. 23, No. 12 (2012), pp. 891-899 (**Impact Factor 0.705**).
7. S. K. Singh, The Fractional  $S$ -transform of tempered ultradistributions, Investigations in Mathematical Sciences, ISSN 2250-1436, Vol. 2, No. 2 (2012), pp. 315-325.
8. S. K. Singh, The Fractional  $S$ -transform on spaces of type  $S$ , Journal of Mathematics, ISSN 2314-4629 (Print) 2314-4785 (Online) (Volume 2013), DOI: [//dx.doi.org/10.1155/2013/105848](http://dx.doi.org/10.1155/2013/105848).
9. S. K. Singh, The Fractional  $S$ -transform on spaces of type  $W$ , Journal of Pseudo-Differential Operators and Applications, ISSN 1662-9981 (Print) 1662-999X (Online), Vol. 4, No. 2 (2013), pp. 251-265 (**Impact Factor 0.531**).
10. S. K. Singh, A New Integral Transform: Theory Part, Investigations in Mathematical Sciences, ISSN 2250-1436, Vol. 3, No. 1 (2013), pp. 135-139.
11. S. K. Singh, The  $S$ -transform of distributions, The scientific world journal, ISSN 1537-744X, (Volume 2014), Article ID 623294, 4 pages, <http://dx.doi.org/10.1155/2014/623294>.
12. S. K. Singh and B. Kalita, The  $S$ -transform on Hardy spaces and its duals, International Journal of Analysis and Applications, ISSN 2291-8639, Vol. 7, No. 2 (2015), pp. 171-178.
13. S. K. Singh, Besov norms in terms of the  $S$ -transform, Afrika Matematika, ISSN 1012-9405 (Print) 2190-7668 (Online), Vol. 27 No. 3, pp. 603-615, DOI 10.1007/s13370-015-0365-0 (2015).
14. B. Kalita and S. K. Singh, The fractional  $S$ -transform on BMO and Hardy spaces, Investigations in Mathematical Sciences, ISSN 2250-1436, Vol. 5, No. 1 (2015), pp. 113-122.
15. S. K. Singh and B. Kalita, The  $S$ -transform on Sobolev spaces, Journal of Analysis & Number Theory, ISSN 2375-2785 (print) 2375-2807 (online), Vol. 4, No. 2 (2016), pp. 125-131.
16. S. Sharma, D. Lhamu and S. K. Singh, Characterization of Weighted Function Spaces in terms of Wavelet Transforms, Boletim da Sociedade Paranaense de Matematica, ISSN 0037-8712 (print) 2175-1188 (online), Vol. 37 No. 4 (2019), pp.69-82, DOI:10.5269/bspm.v37i4.36226.

17. B. Kalita and S. K. Singh, On spaces of periodic functions with wavelet transforms, Boletim da Sociedade Paranaense de Matematica, ISSN 0037-8712 (print) 2175-1188 (online), DOI:10.5269/bspm.37637 (2017).
18. B. Kalita and S. K. Singh, On function spaces with S-transform, Afrika Matematika, ISSN 1012-9405 (print) 2190-7668 (online)1012-9405, Vol. 29 No. 3 (2018), pp. 357-370.
19. D. Lhamu and S. K. Singh, The quaternion Fourier and wavelet transforms on spaces of functions and distributions, Research in the Mathematical Sciences Vol. 7 ( 11) (2020). <https://doi.org/10.1007/s40687-020-00209-4> (**Impact Factor 0.831**).
20. D. Lhamu and S. K. Singh, Besov norms of the continuous wavelet transform in variable Lebesgue space, Journal of Pseudo-Differential Operators and Applications (2020), <https://doi.org/10.1007/s11868-020-00361-z> (**Impact Factor 0.531**).
21. C. P. Pandey, Sunil Kumar Singh and Jyoti Saikia, Inversion Formula for the Continuous Laguerre Wavelet Transform, Journal of Mechanics of Continua and Mathematical Sciences, Vol.15, No.8, August (2020), pp. 232-239.
22. B. Kalita and S. K. Singh, On S-convolution associated with S-transform (communicated)
23. D. Lhamu and S. K. Singh, The Continuous Quaternion Wavelet Transform on Sobolev Spaces (communicated)
24. D. Lhamu and S. K. Singh, The Continuous Quaternion Wavelet Transform on function Spaces (communicated)
25. D. Lhamu and S. K. Singh, The Continuous Wavelet Transform on Periodic Besov space (communicated)

### 11. RESEARCH PROJECTS (COMPLETED / ONGOING):

S. No.	Title of the Project	Duration	Source of Funding	Amount of Funding (Rs.)
1.	Wavelet transform and S-transform	2 years (From Feb. 2010 to Jan. 2012)	UGC, New Delhi	1,30,000/-

### 12. ORGANISING SEMINARS/ CONFERENCES/ WORKSHOPS

1. Organising E-Lecture Series at School level at Mahatma Gandhi Central University on 7th and 9th July 2020.
2. Organising National Webinar on "An overview of Cryptography: From Classical to Quantum and Post Quantum" at Mahatma Gandhi Central University on 18-19 July 2020.
3. Organising Webinar on "Mathematical Modeling of Communicable and Non-Communicable Disease" at Mahatma Gandhi Central University on 08-11 August 2020.

### 13. PARTICIPATION & PRESENTATIONS IN SEMINARS/SYMPOSIA/WORKSHOPS/CONFERENCES:

Sl. No.	Title	PRESENTATIONS IN the Conference/ SEMINARS/ /WORKSHOPS:
1.	Infraexponential decay of wavelets	XX Annual Conference of the Mathematical Society Banaras Hindu University, January 10-11, 2005

2.	The S- transform on spaces of type S	26 <sup>th</sup> Annual Conference of the Mathematical Society Banaras Hindu University on Recent Trends in Analysis and Modelling, November 28-29, 2010
3.	The S- transform on spaces of type W	International workshop Wavelets, Frames and applications, Department of Mathematics, K M C, University of Delhi, India, 15-21 December 2011
4.	The S-transform	Training Programme on Integral Transforms, Wavelets, Distribution Theory and Applications, DST-Center for interdisciplinary Mathematical Sciences, Faculty of Science, Banaras Hindu University, Varanasi, July 12-21, 2012
5.	The S- transform on Besov spaces	National conference on recent trends of mathematics and its applications, Department of Mathematics, Rajiv Gandhi University, Arunachal Pradesh, 26-27 May 2014
6.	The continuity of the S-transform on Sobolev spaces	International conference on frontiers in mathematics-2015, Gauhati University, Assam, India, 26-28 March 2015
7.	On Function spaces with S-transform	International conference on recent trends in Mathematics, Department of Mathematics, University of Allahabad, Allahabad-211002, Uttar Pradesh, India, July 10-12, 2015
8.	On Function spaces with fractional S-transform	Second National Conference on recent trends of mathematics and its applications, Department of Mathematics, Rajiv Gandhi University, Arunachal Pradesh, 6-7 November 2015
9.	An Introduction to S-transform	Short Term Advanced Training Programme on Integral Transformations, Distributions and Wavelet Analysis (ITDWA), Department of Applied Mathematics, ISM, Dhanbad, December 14-18, 2015
10.	The wavelet transforms on spaces of Distributions	National Conference on Advances in Mathematical Sciences, Department of Mathematics, Gauhati University, Assam, India, December 22-23, 2016
11.	An introduction to wavelets and wavelet transforms	2 <sup>nd</sup> National Conference on Recent Trends in Mathematics with Applications, Faculty of Mathematical and Statistical Sciences, Institute of Natural Sciences and Humanities, Shri Ram Swaroop Memorial University, Lucknow -225003, Uttar Pradesh India, Jan. 30-31, 2020.

**(Dr. Sunil Kumar Singh)**