

Umesh Kumar Singh, Ph.D.

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Education:

- Ph.D. from Delhi University, 2009.
- M.Phil. from Delhi University, 2003.
- M.A. Banaras Hindu University, 2002.
- B.A. from Allahabad University, 2000.

Areas of interest:

Ancient Indian Religion and Philosophy, Vedic Literature, Ayurveda, Sanskrit and Hindi linguistics, Science & Technology in Sanskrit texts, Avadhee language and literature, Manuscript collection of Ancient Indian literature.

Awards & achievements:

- Qualified U.P. State level eligibility test (SLET) 2002
- Qualified National eligibility test and awarded by **Junior research fellowship** in June 2002.
- Qualified National eligibility test and awarded by **Junior research fellowship** in June 2003.
- Best poster award on *“Special topics in History of Indian Science”* in 20th International Vedanta Congress, 28th to 31st December, 2011, Jawaharlal Nehru University, Delhi-110067.

Contribution in the field of Veda & Computational Linguistics:

1. Development of online textual search & indexing system

- Developed an online indexing system for Vedic literature and epic literature with the help of Dr. Girish Nath Jha of Jawaharlal Nehru University, Delhi. It can be seen on this link <http://sanskrit.jnu.ac.in/vedanta/index.jsp>. Texts contributed by me under this area are-
 - R̥gveda
 - Yajurveda
 - Sāmveda
 - Atharvaveda

- Saṁhitopaniṣad Brāhmaṇa
- Sāṁkyakārikā
- Rāmāyaṇa

2. Works done under the “Development of Sanskrit computational toolkit and Sanskrit-Hindi Machine Translation system”, D.I.T. (Govt. of India) sponsored project-

1. Building database of V.S. Apte Sanskrit-Hindi Dictionary
2. Building database of online Multilingual Amarakośa. We presented a paper on this work in [5th Global Wordnet Conference 2010](#), Mumbai, India. Now this paper is published in conference proceedings from Narosa Publishing House, Delhi 2010.
3. POS Tagging of Panchatantra, Hitopadeśa and many plays of poet Bhāsa etc.

3. Developed many small tools (macros) for MS Word processor like-

- Digit converter- Roman to Devanagri
- Digit converter- Devanagri to Roman
- Encoding converter- Baraha input to Diacritical Unicode

4. Publication of online Sanskrit Research Journal

- Editing an online refereed research journal of Sanskrit Studies named by **Nikaṣa**, it can be seen on- <http://sangamaneer.com/Nikasha.htm> . Its website is developed & maintained by myself.

Experiences in the field of Sanskrit & Computational Linguistics:

1. **Assistant Professor** (Contract), 10 October 2014 to 31 March 2015, at **S.B.S. Govt. P.G. College, Rudrapur**, Udham Singh Nagar, Uttarakhand.
2. **Project Manager**, 1st August, 2013 to 30th March 2014. **Indian Languages Corpora Initiative**, D.I.T. (Govt. of India) sponsored project, in Special Centre for Sanskrit Studies, Jawaharlal Nehru University, Delhi-110067.
3. **Senior Linguist**, from 1st April 2010 to 30 November 2010. **Development of Sanskrit computational toolkit and Sanskrit-Hindi Machine Translation system**, D.I.T. (Govt. of India) sponsored project, in Special Centre for Sanskrit Studies, Jawaharlal Nehru University, Delhi-110067.
4. **Junior Linguist**, from 1st April 2009 to 30-03-2010. **Development of Sanskrit computational toolkit and Sanskrit-Hindi Machine Translation system**, D.I.T. (Govt. of India) sponsored project, in Special Centre for Sanskrit Studies, Jawaharlal Nehru University, Delhi-110067.

5. **Language Editor**, from 13-01-2009 to 30-03-2009. **Development of Sanskrit computational toolkit and Sanskrit-Hindi Machine Translation system**, D.I.T. (Govt. of India) sponsored project, in Special Centre for Sanskrit Studies, Jawaharlal Nehru University, Delhi-110067.

Other Experiences:

1. सह-सम्पादक, शांखायनसंहिता प्रकाशन परियोजना, महर्षिसान्दीपनिराष्ट्रियवेदविद्याप्रतिष्ठानम्, उज्जयिनी, मानव संसाधन विकास मन्त्रालय भारत सरकार, March 2012 to October 2012.
2. **Senior Research Associate**, September 2010 to December 2012. (Honorary from Oct.2011) Center for Indic Studies, University of Massachusetts, Dartmouth, USA.
3. **Research Associate**, September 2009 to August 2010. Center for Indic Studies, University of Massachusetts, Dartmouth, USA.
4. **Guest Lecturer in Kirori Mal College**, Delhi University, 22Aug. 2007 to 23 Dec. 2007.

Published books :

1. रत्नप्रदीपिका, Parimal Publications, Delhi, 2014, ISBN: 978-81-7110-484-0
2. शांखायनशाखीया ऋग्वेदसंहिता (पदपाठसंवलित)-द्वितीयः अष्टकः, (सह सम्पा.) उज्जैन , २०१२. महर्षि सान्दीपनिराष्ट्रियवेदविद्याप्रतिष्ठानम्, ISBN- 978-81-9236-296-0
3. **Science and Technology in Ancient Indian Texts**, (Co-Ed.) D.K. Printworld (P) Ltd. Delhi, 2012, ISBN: 978-81-246-0632-3

Books in pipeline:

1. विमानशास्त्र
2. अंशुबोधिनी
3. श्यैनिक शास्त्रम्
4. मृगपक्षिशास्त्रम्
5. वंशब्राह्मणम्
6. शांखायनारण्यकम्
7. षड्विंशब्राह्मणम्
8. संहितोपनिषद् ब्राह्मणम्
9. देवताध्यायब्राह्मणम्

Published papers:

1. आयुर्वेद में वायुतत्त्व का महत्त्व, भारतीय परम्परा में स्वास्थ्य एवं सुख, 2016, ISBN-978-81-7702-379-4, प्रतिभा प्रकाशन, दिल्ली-110007, pp 309-314
2. संस्कृत शिक्षा: दशा एवं दिशा तथा करणीय कार्य, वाक्सुधा, Volume-1, Issue-3, 2014, ISSN -2347-6605, pp 27-34
3. भारद्वाज-कृत विमानशास्त्रपरक दुर्लभ ग्रन्थ - 'रत्नप्रदीपिका', Pratinakirti, vol.-1, Issue-2, 2013, ISSN 2322-0694 pp 18-25
4. रसानाथर्वणादपि, Nikaṣa (Online Refereed Journal of Sanskrit Studies), Volume-1, Issue-2, 2012, ISSN -2277-6826, pp 62-67
5. वेद एवं आयुर्वेद में चिकित्सा से सम्बद्ध देव, वेदविद्या (An International Refereed Research Journal), Volume-XIX, Issue-1, 2012, ISSN -2230-8962, pp 139-159
6. संस्कृत भाषा में निबद्ध वैज्ञानिक ग्रन्थ-१, Nikaṣa (Online Refereed Journal of Sanskrit Studies), Volume-1, Issue-1, 2012, ISSN -2277-6826, pp 80-88
7. **"Special topics in History of Indian Science"** in proceedings of 20th International Vedanta Congress, **Modern Perspectives on Vedanta**, 28th to 31st December, 2011, Jawaharlal Nehru University, Delhi-110067, ISBN- 978-8124606391
8. **"Online Multilingual Amarakośa: the relational lexical database"** in proceedings of 5th Global Wordnet Conference 2010, Mumbai, India. ISBN:978-81-8487-083-1, pp306-310
9. आयुर्वेद के चिकित्सादर्शन पर वैदिक मन्त्रों का प्रभाव, परमिता, त्रैमासिक शोध पत्रिका, शोधवार्षिकांक, २०११, ISSN: 0974-6129
10. वैदिक जल-चिकित्सा एवं वर्तमान सन्दर्भ, जाह्नवी (संस्कृत ई-जर्नल) जून २०११, ISSN: 0976-8645
11. अथर्ववेदीय प्रथम मन्त्र एवं आयुर्वेद, प्रत्यय, त्रैमासिक शोध पत्रिका, २००७, ISSN: 0975-7821

Invited lectures:

1. **Language computing resources for Hindi and Sanskrit-1** on 29-10-2012 in Centre for Information and Language Engineering, Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya, Wardha, Maharashtra.
2. **Language computing resources for Hindi and Sanskrit-2** on 30-10-2012 in Centre for Information and Language Engineering, Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya, Wardha, Maharashtra.

3. **Corpus creation and management for Hindi and Sanskrit** on 30-10-2012 in Centre for Information and Language Engineering, Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya, Wardha, Maharashtra.
4. **Text input systems for language computing of Hindi and Sanskrit** on 31-10-2012 in Centre for Information and Language Engineering, Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya, Wardha, Maharashtra.
5. **Sanskrit Hindi Machine translation system: Limits and Possibilities-1** on 31-10-2012 in Centre for Information and Language Engineering, Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya, Wardha, Maharashtra.
6. **Sanskrit Hindi Machine translation system: Limits and Possibilities-2** on 01-11-2012 in Centre for Information and Language Engineering, Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya, Wardha, Maharashtra.
7. **Optical Character Recognition (OCR) and Devanagari script-1** on 01-11-2012 in Centre for Information and Language Engineering, Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya, Wardha, Maharashtra.
8. **Optical Character Recognition (OCR) and Devanagari script-2** on 02-11-2012 in Centre for Information and Language Engineering, Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya, Wardha, Maharashtra.
9. **Devanagari input systems and Unicode** on 03-11-2012 in Centre for Information and Language Engineering, Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya, Wardha, Maharashtra.
10. **Importance of corpora of Indian languages and future possibilities** on 05-11-2012 in Centre for Information and Language Engineering, Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya, Wardha, Maharashtra.
11. **E-Learning resources for Hindi and Sanskrit** on 06-11-2012 in Centre for Information and Language Engineering, Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya, Wardha, Maharashtra.
12. **Computer application for Language research in respect of Hindi and Sanskrit** on 06-11-2012 in Centre for Information and Language Engineering, Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya, Wardha, Maharashtra.
13. **Knowledge preservation and role of Technology: Problems, Challenges and Possibilities** on 07-11-2012 in Centre for Information

and Language Engineering, Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya, Wardha, Maharashtra.

14. **Transliteration system for Indian Languages** on 08-11-2012 in Centre for Information and Language Engineering, Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya, Wardha, Maharashtra.
15. **POS tagging for Indian Languages** on 09-11-2012 in Centre for Information and Language Engineering, Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya, Wardha, Maharashtra.
16. **Computer application for making of Lexical Resources** on 10-11-2012 in Centre for Information and Language Engineering, Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya, Wardha, Maharashtra.

Presentations in conferences:

1. “वैदिक विज्ञान के तकनीकी यन्त्र” in 12th International Conference of WAVES on Scientific Aspects of Vedic Knowledge, held at Bhartiya Vidya Bhavan, Kasturba Gandhi Marg, New Delhi-110001, 15-18 December, 2016.
2. “विमानशास्त्र और उसकी प्रामाणिकता” in Twenty-First International Congress of Vedanta, July 11-14, 2013, Center for Indic Studies, University of Massachusetts Dartmouth, Dartmouth, MA, USA. “The Science and Technology Heritage of Ancient India” in National Seminar on Ancient Science and Technology 2013 held at IIT Kanpur, Kanpur-208016, on 9th March 2013.
3. “संस्कृत, हिन्दी और साहित्य” at Post Graduate Department of Hindi & Research Centre, Pt. Shambhu Nath Shukla, Govt. P.G. Autonomous College, Shahdol (M.P.) jointly organized by International Hindi Association, USA & Bhartiya Hindi Parishad, Allahabad on 26-28 October, 2013.
4. “आचार्य हेमचन्द्रकृत निघण्टुशेषः एक समीक्षा” दिनांक १७ मार्च २०१३, अखिलभारतीय हेमचन्द्राचार्य समारोह, हेमचन्द्राचार्य उत्तर गुजरात विश्वविद्यालय, पाटण।
5. “विमानशास्त्र एवं उसके सन्दर्भः वेद से आधुनिक संस्कृत साहित्य तक” in International Vedic Conference & 15th India Conference of WAVES on Veda & Thought Revolution, in Dev Sanskriti University, Haridwar, 16 March, 2012.
6. “रसान् आथर्वणादपि” in National seminar on नाट्यवेदावधारणा: नाट्यशास्त्रस्य वैदिकतत्त्वानि, श्री पट्टाभिरामशास्त्री-वेदमीमांसानुसन्धानकेन्द्रम्, वाराणसी, २२ मार्च २०१२।Poster presentation on “**Special topics in History of Indian**

Science” in 20th International Vedanta Congress, 28th to 31st December,2011, Jawaharlal Nehru University, Delhi-110067.

7. Poster presentation on **“Some Gems of Sanskrit Literature”** in 20th International Vedanta Congress, 28th to 31st December,2011, Jawaharlal Nehru University, Delhi-110067.
8. **“प्राचीन भारतीय विज्ञान एवं तकनीकी विकास में आगम ग्रन्थों का योगदान”** in International seminar on Āgamaśāstra, Department of Dharmāgama, Faculty of Sanskrit Vidya & Dharma Vigyāna, Banaras Hindu University, Varanasi, 2011.
9. **“संस्कृत साहित्य में पादप विज्ञान”**in International conference on Sanskrit Sāhitya, Department of Sāhitya, Faculty of Sanskrit Vidyā and Dharma Vigyān, Banaras Hindu University, Varanasi.2010
10. **“संस्कृतवाङ्मये वृक्षचिकित्सा”**, अखिलभारतीयसंस्कृतशोधसम्मेलनम्, उत्तराञ्चल संस्कृत अकादमी, हरिद्वारम्, २०१०
11. **“Online Multilingual Amarakośa: the relational lexical database”** in 5th Global Wordnet Conference 2010, Mumbai, India.
12. **“संस्कृतवाङ्मये सृष्टिप्रक्रिया”**, अखिलभारतीयसंस्कृतशोधसम्मेलनम्, उत्तराञ्चल संस्कृत अकादमी, हरिद्वारम्, २००९
13. **“Issues and challenges in computational documentation of vedic literature”** in International Veda-Vedang-Conference 2009, Gurukul Kangari Vishvavidyalay, Haridwar, Uttaranchal, India.
14. **“Automatic Indexing System for texts of Indian Intellectual Tradition”** in 18th International Congress of Vedanta, University of Massachusetts-Dartmouth, MA, USA, 2009.
15. **“आयुर्वेद में सत-रज-तम : प्रासंगिकता एवं जीवनमूल्य”** in Bon Maharaj Institute of Management and Technology, in 11th India conference of “World Association for Vedic Studies” (WAVES).2007.
16. **“वेद एवं आयुर्वेद की दृष्टि में योगशास्त्र”** in Bharatiya Yoga Academy and Pārshwanāth Vidyāpeetha, Varanasi, 2007.
17. **“आयुर्वेद एवं सर्पवेद”** in 2nd World Congress on Vedic Sciences 2007, Banaras Hindu University, Varanasi.
18. **“अथर्ववेदीय प्रथम मन्त्र एवं आयुर्वेद”** in International Veda-Vedang-Conference 2007, Gurukul Kangari Vishvavidyalay, Haridwar, Uttaranchal, India.

19. “ज्ञानसंरक्षण की भारतीय सांस्कृतिक परम्परा” in University of Delhi, South Campus, in 10th India conference of “World Association for Vedic Studies” (WAVES).2006.
20. आचार्यत्रयी के अनुसार सुख एवं स्वास्थ्य के लिए वायु तत्त्व का महत्त्व” in J.R. Rajasthan Sanskrit University, Jaipur in 9th India conference of “World Association for Vedic Studies” (WAVES).2005
21. “वेद एवं वेदेतर साहित्य में वायु महाभूत” in Research Council of Department of Sanskrit, University of Delhi.
22. “आधुनिकतम सन्दर्भ में वैदिक वैमानिकी” In International Vedic Conference 2004, Gurukul Kangari Vishvavidyalay, Haridwar, Uttaranchal, India.

Workshops Attended

1. ‘पाणिनीय अष्टाध्यायी में उपदर्शित अन्तर्वैषयिक विमर्श’, ०३ जनवरी से ११ जनवरी २०१९, भारत अध्ययन केन्द्र, काशी हिन्दू विश्वविद्यालय एवं पार्श्वनाथ विद्यापीठ वाराणसी द्वारा आयोजित।
2. “3 day Workshop on Sharda Script Learning”, 08-11-2013 to 10-11-2013 at SCSS, JNU, New Delhi.
3. Workshop on “संस्कृत एवं संगणकीय भाषाविज्ञान” in Faculty of SVDV, 12-7-2011 to 15-7-2011, Banaras Hindu University, Varanasi.
4. Workshop attended on “Samas Tagging for the Development of Sanskrit Computational Tools-kit and Sanskrit Hindi Machine Translation System” at Pūrṇapragya Vidyāpīṭha Sanskrit College, Banglore.
5. ‘अनुवादकानां कार्यशाला एवं तत्त्वबोध व्याख्यानम्’, १५-११-२००८, उत्तराञ्चल संस्कृत अकादमी, हरिद्वार।
6. ‘Workshop on Manuscriptology’, 2-2-2006 to 10-2-2006 at SCSS, JNU, New Delhi.

Previous Selection:

Lecturer in Sanskrit
International Centre for Ayurvedic Studies,
Gujrat Ayurved University, Jamnagar, Gujarat. June 2005.

Membership of Academic Bodies:

- 1- Life Member, World Association for Vedic Studies (WAVES), USA.
- 2- आजीवन सदस्य, भारतीय हिन्दी परिषद्, इलाहाबाद।
- 3- Researchgate Id. https://www.researchgate.net/profile/Umesh_Singh34