

# PAVANKUMAR SATULURI

## PERSONAL DATA

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ADDRESS: Department of Humanities and Social Sciences, Indian Institute of Technology Roorkee  
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GOOGLE SCHOLAR: [Pavankumar Satuluri](#)

## WORK EXPERIENCE

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CURRENT	Assistant Professor, INDIAN INSTITUTE OF TECHNOLOGY ROORKEE, Roorkee
01 FEBRUARY 2017- 06 AUGUST 2023 OCTOBER 2016-DECEMBER 2016	Assistant Professor, CHINMAYA VISHWAVIDYAPEETH, Ernakulam <i>Senior Technical Fellow, Department of CSE, IIT Kharagpur</i> Worked on Word Segmentation and Identifying the Compounds in Sanskrit
SEPTEMBER 2015-SEPTEMBER 2016	<i>Post-doctoral Research Associate, Department of CSE, IIT Kharagpur</i> worked as a post-doctoral Research Associate at IIT, Kharagpur on an advanced MHRD sponsored project. Collected the German corpus on compounds and worked towards a grammar for German compounds based on Paninian rules.
JULY 2013-APRIL 2014 AUGUST 2011-JUNE 2012	<i>Guest Faculty, University of Hyderabad</i> <i>Research Associate, Department of Sanskrit Studies, University of Hyderabad</i>
JULY 2010-JULY 2011	<i>Junior Linguist, Sanskrit Academy, Osmania University, Hyderabad</i>

## ACADEMIC QUALIFICATIONS

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JULY 2015	PhD in SANSKRIT COMPUTATIONAL LINGUISTICS, <b>University of Hyderabad</b> , Hyderabad
MAY 2010	Sikshaacharya(M.Ed) from <b>Rashtriya Sanskrit Vidyapeetha</b> , Tirupati
APRIL 2009	Sikshasastri(B.Ed) from <b>Rashtriya Sanskrit Vidyapeetha</b> , Tirupati
MAY 2008	Acharya(MA) in Navya Vyākaraṇa from <b>JR Rajasthan Sanskrit University</b> , Jaipur
MAY 2006	Sastri(BA) from <b>Rashtriya Sanskrit Vidyapeetha</b> , Tirupati
MAY 2003	Prak-Sastri(Intermediate) from <b>Rashtriya Sanskrit Vidyapeetha</b> , Tirupati

## INTERESTS

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Research:	PĀṆINIAN GRAMMAR, SANSKRIT COMPUTATIONAL LINGUISTICS, NATURAL LANGUAGE PROCESSING, PHILOSOPHY OF LANGUAGE, INDIAN THEORIES OF VERBAL COGNITION and INDIAN LOGIC
Teaching:	PĀṆINIAN GRAMMAR, THEORETICAL LINGUISTICS, SANSKRIT COMPUTATIONAL LINGUISTICS

## LANGUAGES

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Mother Tongue: TELUGU  
Fluent: ENGLISH, SANSKRIT and HINDI  
Intermediate: GERMAN

## COMPUTER SKILLS

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Operating Systems : LINUX and WINDOWS  
Programming Languages: PERL,C,LEX,YACC and PYTHON  
Scripting Languages: HTML and CGI  
Document Processing Softwares: L<sup>A</sup>T<sub>E</sub>X

## PUBLICATIONS

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- 2024 | ANAGHA PRADEEP, RADHIKA MAMIDI, AND PAVANKUMAR SATULURI  
“**Context and WSD: Analysing Google Translate’s Sanskrit to English Output of Bhagavadgītā Verses for Word Meaning**”, In Proceedings of the 7<sup>th</sup> International Sanskrit Computational Linguistics Symposium, 2024, pages 14–26, Auroville, Puducherry, India. Association for Computational Linguistics
- 2023 | AMRITH KRISHNA, ASHIM GUPTA, DEEPAK GARASANGI, JEEVNESH SANDHAN, PAVANKUMAR SATULURI AND PAWAN GOYAL  
“**Neural Approaches for Data Driven Dependency Parsing in Sanskrit**”, In Proceedings of the Computational Sanskrit and Digital Humanities Selected papers presented at the 18<sup>th</sup> World Sanskrit Conference pp 1–20, Canberra, Australia (Online mode).Association for Computational Linguistics
- 2021 | AMRITH KRISHNA, SANTRA BISHAL, GUPTA ASHIM, SATULURI PAVANKUMAR, GOYAL PAWAN  
“**A Graph-Based Framework for Structured Prediction Tasks in Sanskrit**”, Journal of Computational Linguistics, Vol 46(4), pp 785-845, MIT Press.
- 2020 | AMRITH KRISHNA, ASHIM GUPTA, DEEPAK GARASANGI, PAVANKUMAR SATULURI, PAWAN GOYAL  
“**Keep it surprisingly simple: A simple first order graph based parsing model for joint morphosyntactic parsing in Sanskrit**”, Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP), pp 4791-4797, November 16–20, 2020.
- 2020 | AMBA KULKARNI, PAVANKUMAR SATULURI, SANJEEV PANCHAL, MALAY MAITY, AMRUTA MALVADE  
“**Dependency Relations for Sanskrit Parsing and Treebank**”, Proceedings of the 19<sup>th</sup> Workshop on Treebanks and Linguistic Theories, TLT 2020, Düsseldorf, Germany, October 27-28, pp 135-150, 2020.
- 2019 | AMRITH KRISHNA, VISHNU SHARMA, BISHAL SANTRA, AISHIK CHAKRABORTY, PAVANKUMAR SATULURI, PAWAN GOYAL  
“**Poetry to Prose Conversion in Sanskrit as a Linearisation Task: A case for Low-Resource Languages**” In Proceedings of the 57<sup>th</sup> Annual Meeting of the Association for Computational Linguistics (Volume 2: Short Papers, ACL 2019). Florence, Italy.

- 2018 | AMRITH KRISHNA, BISHAL SANTRA, SASI PRASANTH BHANDARU, VISHNU SHARMA, GAURAV SAHU, PAVANKUMAR SATULURI AND PAWAN GOYAL  
**“Free as in Free Word Order: An Energy Based Model for Word Segmentation and Morphological Tagging in Sanskrit”** in the Transactions of EMNLP.
- 2018 | PAVANKUMAR SATULURI, K V RAMAKRISHNAMACHARYULU AND AMBA KULKARNI  
**“Order of Operations in the Formation of Sanskrit Compounds: with special reference to introduction of samāsānta element and deletion of case endings”** in the Journal of Oriental Institute Baroda.
- 2017 | AMRITH KRISHNA, PAVANKUMAR SATULURI AND PAWAN GOYAL  
**“A Dataset for Sanskrit Word Segmentation”** in Joint SIGHUM Workshop on Computational Linguistics for Cultural Heritage, Social Sciences, Humanities and Literature, 55<sup>th</sup> Annual Meeting of the Association for Computational Linguistics (ACL), Vancouver, Canada.
- 2017 | AMRITH KRISHNA, PAVANKUMAR SATULURI, HARSHVARDHAN PONNADA, MUNEEB AHMED, GULAB ARORA, KAUSTUBH HIWARE AND PAWAN GOYAL  
**“A Graph Based Semi-Supervised Approach for Analysis of Derivational Nouns in Sanskrit”** in Proceedings of TextGraphs 11 Workshop, 55<sup>th</sup> Annual Meeting of the Association for Computational Linguistics Vancouver (ACL), Canada.
- 2017 | G. PRAVEEN AND PAVANKUMAR SATULURI  
**“Sūtrādhārīta Teluguvākyaśiṣṇī: Prāthamika adhyayanam”** Samśodhana, Quarterly Journal of Telugu Research, Vol 1, Number(2), pp 21-26, I. Lakshmi Reddy, C.P Brown Seva Samiti, Bengaluru
- 2016 | AMRITH KRISHNA, BISHAL SANTRA, PAVANKUMAR SATULURI, SASI PRASANTH, BHUMI FALDU, YAJUVENDRA SINGH AND PAWAN GOYAL  
**“Word Segmentation in Sanskrit Using Path Constrained Random Walks”** in COLING 2016, Osaka, Japan
- 2016 | AMRITH KRISHNA, PAVANKUMAR SATULURI, SHUBHAM SHARMA, APURV KUMAR AND PAWAN GOYAL  
**“Compound Type Identification in Sanskrit: What Roles do the Corpus and Grammar Play?”** in WSSANLP, Workshop at COLING 2016, Osaka, Japan
- 2016 | AMRITH KRISHNA, PAVANKUMAR SATULURI, AND PAWAN GOYAL  
**“A Dataset for Sanskrit Word Segmentation”** in Workshop on Bridging the gap between Sanskrit Computational Linguistics tools and management of Sanskrit Digital Libraries ICON 2016
- 2015 | AMBA KULKARNI, PREETHI SHUKL, PAVANKUMAR SATULURI AND DEVANAND SHUKL  
**“How free is ‘free’ word order in Sanskrit”** Sanskrit Syntax, Peter Scharf(Ed.), Sanskrit Library, USA
- 2013 | PAVANKUMAR SATULURI AND AMBA KULKARNI  
**“Generation of Sanskrit Compounds”** in the proceedings of International Conference on Natural Language Processing (ICON) CDAC-Noida

## INVITED LECTURES, SEMINARS AND WORKSHOPS

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| 2024 | Invited as an Eminent speaker for a Two-Day National Workshop on “ <b>Various Dimensions of Sanskrit and Computer Science</b> ” organized by the Centre for Vedic Sciences, Banaras Hindu University, 13-14 January, 2024.  |
| 2024 | Invited as a Resource person for a Two-Day National Workshop on “ <b>Indian Language Translation</b> ” organized by Uttarakhand Sanskrit University, Haridwar, 19-20, January, 2024.  |
| 2024 | Invited as a Subject Expert for “ <b>Designing a Common Tagset for Indian Languages</b> ” workshop on 17.02.24 organized by IIT Kanpur at Auroville, Puducherry, India.   |
| 2024 | Invited as a keynote speaker for workshop on “ <b>Indian Knowledge Systems in Engineering &amp; Technology</b> ” at Chaudhary Charan Singh University, Meerut on 07.03.24   |
| 2024 | Invited as a Resource person for a Three-day Workshop on “ <b>Computational Tools for Teaching &amp; Learning Sanskrit</b> ” Training Program for Ayurvedic Medical Practitioners jointly organized by Malaviya Mission Teacher Training Centre (MMTTC) at the University of Hyderabad, in collaboration with the National Commission for Indian System of Medicine (NCISM), 23-25 March, 2024. |
| 2024 | Invited lecture on “ <b>Sanskrit Computational Linguistics</b> ” for PG students in the Department of Sanskrit Studies, University of Hyderabad, 26-27, March 2024.   |
| 2023 | Invited as a Resource Person for the national workshop on “ <b>Indian Knowledge Systems and its Multidisciplinary Approach</b> ” by Centre for Indian Knowledge Systems, Vasanta College for Women, Krishnamurthy Foundation of India, Varanasi on 14.12.23 (Hybrid mode)   |
| 2023 | Invited lecture on “ <b>An Introduction to Indian Knowledge Traditions (IKT): Defining Indian Knowledge Traditions</b> ” at Bharat Vidya Prayojan (BVP), Indira Gandhi National Centre for the Arts, Ministry of Culture, GoI, 26.09.23 (online mode)   |
| 2023 | Invited as a subject expert for faculty interviews at Chinmaya Vishwa Vidyapeeth on 20.09.23 (online mode)  |
| 2023 | Poster Evaluator and Workshops Coordinator for the “ <b>National Youth Conference on Indian Knowledge Systems</b> ” at IIT Roorkee August 25-27, 2023   |
| 2023 | An invited lecture on “ <b>Comparison of Ashtadhyāyīsūtrapaddhati with Sūtrapaddhati in Other śāstras and TG Grammar of Chomsky</b> ” in A Symposium On “ <b>The Art &amp; Science Of Sutra-s</b> ”, organised by INDICA BHASHA.  |
| 2023 | Organiser of the “ <b>Demonstration Sessions under the section Computational Sanskrit and Digital Humanities</b> ” at World Sanskrit Conference, Australia(Online Mode).  |

- 2023 | Participated in “**Śabdāñjaliḥ - One Day Workshop on Sanskrit Word Creation Skill**” organised by Chinmaya Vishwavidyapeeth and sponsored by Bharatiya Bhasha Samiti.
- 2022 | An invited lecture on “**Translating Technical Literature With Special Reference to Telugu**” in the programme Anuvādasaurabham: A Three Day Residential Workshop on Effective Translation in Indian Languages organised by Chinmaya Vishwavidyapeeth in Association with Bharatiya Bhasha Samiti.
- 2022 | Invited lecture on “**Kāraka Vimarśaḥ**” in the MA Philosophy Programme organised by Manipal Academy of Higher Education (MAHE), Manipal.
- 2020 | An invited lecture on “**Natural Language Processing(NLP) and Indian Grammatical Tradition**” in the programme Open Learning for All(OLA) organised by Chinmaya Vishwavidyapeeth.
- 2020 | Presentation on “**Introduction and Scope of Samsaadhanii(A Sanskrit Computational Toolkit)**” in the Two Day National Webinar on Introduction to Sanskrit Computational Tools, jointly organized by Department of Sanskrit, St.Joseph college for Women, Vishakapatnam and Anuvaak Technologies Pvt Ltd.
- 2020 | Presentation on “**Sanskrit Compound Generator**” in the International Webinar SCL Webinar Series - Part 3 organized by Department of Sanskrit studies and its Alumni, University of Hyderabad
- 2020 | Presentation on “**Sanskrit Made Easy - Introduction to Samsādhanī**” Sanskrit Made Easy - Introduction to Samsādhanī: Online Computational Tools for Sanskrit in the International Webinar organized by Department of Sanskrit studies and its Alumni, University of Hyderabad
- 2019 | An invited lecture on “**Evolution of Indian Languages**” on the occasion of International Mother Tongue Day at Chinmaya Vishwavidyapeeth
- 2019 | An invited lecture on “**Sanskrit Computational Linguistics & Natural Language Processing and SCL Tools**” in the Three Day National Workshop on Sanskrit and Language Technology held at Sree Sankaracharya University of Sanskrit, Kaladi
- 2019 | An invited lecture on “**Generation of Sanskrit Compounds: Some Theoretical Issues**” in the Department of Sanskrit Studies, University of Hyderabad, Hyderabad
- 2018 | An invited lecture on “**Śastra Writings in Modern Age with Special reference to Vyākaraṇa Śastra**” in the Sanskrit Young Writers Meet workshop (Sahitya Academy, New Delhi) held at Rashtriya Sanskrit Vidyapeetha, Tirupati
- 2017 | Participated in a two-day workshop on “**Digitized Sanskrit Corpus**” held at Rashtriya Sanskrit Vidyapeetha, Tirupati.
- 2016 | An invited lecture on “**Samastapadavyutpādika - A Tool for the Generation of Sanskrit Compounds**” in a 7-day workshop on Paniniyan Grammar and Sanskrit Computational Linguistics, organised by Rashtriya Sanskrit Sansthan, Ganganath Jha Campus, Allahabad.

- 2015 | Presented a paper on “**Order of Operations in the Formation of Sanskrit Compounds: with special reference to introduction of samāsānta element and deletion of case endings**” in the 16<sup>th</sup> World Sanskrit Conference, held at Bangkok, Thailand.
- 2014 | Presentation on “**Sanskrit Compound Generator**” in the workshop “**Pāṇini and the Pāṇinians of the 16<sup>th</sup>-17<sup>th</sup> centuries**” hosted by the French Institute of Pondichery, Pondichery
- 2014 | Participated in the Intensive course on “**Historical Linguistics, with special focus on South Asian Historical and Comparative Issues**” hosted by CALTS, University of Hyderabad, Hyderabad.
- 2014 | Presentation on “**Extra Linguistic information needed for automatic generation of the sanskrit compounds: A study**” in the panel of SALA at University of Hyderabad, Hyderabad.
- 2013 | Presented a paper on “**Generation of Sanskrit Compounds**” in the ICON Conference in CDAC Noida.
- 2013 | Presentation on “**Treating utthita and utthāpya ākāṅkṣhā independently in efficient parsing**” in the Sanskrit Syntax and Discourse Structure seminar hosted by Université de Paris, Paris, France
- 2013 | Participated in the 5<sup>th</sup> **International Sanskrit Computational Linguistics Symposium** from 4<sup>th</sup> - 6<sup>th</sup> January 2013 held at Indian Institute of Technology, Mumbai.
- 2012 | Participated in the 24<sup>th</sup> **International Conference on Computational Linguistics** from 8<sup>th</sup> - 15<sup>th</sup> December 2012 held at Indian Institute of Technology, Mumbai.
- 2011 | Resource Person in a three days national workshop on “**Computational Sanskrit**” organised jointly by the Departments of Sanskrit and Computer Science and the Haryana Sanskrit Academy, Panchkula Sanatan Dharma College(Lahore), Ambala Cantt, Haryana.
- 2011 | Lab Assistant in a six day workshop on “**Sanskrit Computational Tools to Understand Sanskrit Texts**” organised jointly by Sanskrit Consortium Project and Department of Sanskrit Studies, University of Hyderabad, held at Chinmaya International Shodha Sansthan, Ernakulam, Kerala.
- 2011 | Participated in the workshop “**The Role of Language in Indian Philosophy (Vedangas and Darsanas)**” from 1<sup>st</sup> - 6<sup>th</sup> August 2011 held at University of Hyderabad, Hyderabad.
- 2011 | Participated in Kāraka tagging workshop from 12<sup>th</sup> - 15<sup>th</sup> July 2011 held at Banaras Hindu University, Varanasi.
- 2010 | Presented a paper on “**Haindava vivāhapaddhatiḥ**” on the National Seminar Organised by Sanskrit Academy Hyderabad.

## PROJECTS

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| 2024 | Co-PI of the ongoing “ <b>Sanskrit Knowledge Accessor</b> ” project for two years, sponsored by MeitY, Government of India   |
| 2024 | PI of the ongoing “ <b>Developing E-readers for Upanishads(Prashna, Mundaka, Mandukya and Taittiriya) in Sanskrit to Hindi</b> ” project for two years, sponsored by Central Sanskrit University, New Delhi, Government of India |

## CERTIFICATE COURSES

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| 2022 | Co-instructor of the course “ <b>Samisāadhanī praveśikā: Learning Sanskrit Using Computational Tools</b> ” Institute of Eminence (IoE) course offered by the Department of Sanskrit Studies, University of Hyderabad. |
| 2021 | Co-instructor of the course “ <b>Samisāadhanī praveśikā</b> ” organised by organised by IIT-Roorkee Sanskrit Club and Team Samsaadhanii   |

## EVENTS

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| 2024 | Coordinator for the “ <b>Centre for Sanskrit Learning</b> ” scheme sponsored by Central Sanskrit University, New Delhi at IIT Roorkee, Roorkee.   |
| 2023 | Member of the Organizing Committee in the “ <b>National Youth Conference on Indian Knowledge Systems</b> ”, August 25-27 at IIT Roorkee, Roorkee.   |
| 2023 | Organiser of the Demo Session as a part of “ <b>Computational Sanskrit and Digital Humanities section, 18<sup>th</sup> World Sanskrit Conference</b> ”, January 09- 13, Australian National University, Canberra, Australia                                       |
| 2023 | Programme committee member of “ <b>Computational Sanskrit and Digital Humanities section, 18<sup>th</sup> World Sanskrit Conference</b> ”, January 09- 13, Australian National University, Canberra, Australia  |
| 2021 | Co-ordinator and Programme Committee Member of A 3-day International Conference on “ <b>New Frontiers in Sanskrit and Indic Knowledge: Sastra and Discipline – Towards a meaningful dialogue</b> ”, December 17-19, organised by Chinmaya Vishwavidyapeeth, Kochi |
| 2019 | Member of the Technical Programme Committee in the “ <b>6<sup>th</sup> International Sanskrit Computational Linguistics Symposium</b> ”, October 23-25, at IIT Kharagpur, Kharagpur.  |
| 2018 | Programme committee member of “ <b>Computational Sanskrit and Digital Humanities section, 17<sup>th</sup> World Sanskrit Conference</b> ”, July 09- 13, University of British Columbia , Vancouver, Canada  |

## REFERENCES

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### **George Cardona**

Professor Emeritus,  
Linguistics and South Asia Studies,  
University of Pennsylvania,  
Philadelphia, PA 19104,  
Email: **cardonagj@verizon.net**

### **Amba Kulkarni**

Professor,  
Dept of Sanskrit Studies,  
School of Humanities,  
University of Hyderabad, Hyderabad  
Email: **ambapradeep@gmail.com**

I hereby declare that the details mentioned in this resume are true and correct to the best of my knowledge.