# CURRICULUM VITAE


**Name:** Bhushan. Anil.Kanagalekar

**Date of Birth:** 02-11-1979

**Gender:** Male

**Nationality:** Indian

**Languages Known:** English, Hindi, Marathi, Kannada, Sanskrit.

**Present Affiliation:** Assistant Professor in Rani Channama University, Belagavi, Karnataka.

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Belagavi – 590006, Karnataka

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**Educational Qualifications:**

| Degree | Branch of Specialisation | Name of college / University | Board | Year of Passing | Marks obtained | Remark |
|---|---|---|---|---|---|---|
| **PhD** | **Nuclear Physics** | **IIT, Bombay** | **---** | **2014** | **---** | **---** |
| MSc | Nuclear Physics | Karnataka University, Dharwad | Karnataka University, Dharwad | 2006 | 78.0% | First class (3rd in the stream) |
| BSc | Physics, Chemistry, Maths | G.S.S.C college, Belgaum | Karnataka University, Dharwad | 2004 | 73.7% | First class with Distinction |
| HSC | Physics, Chemistry, Maths | Devachand College, Nippani | Maharashtra Board of Higher Sec. Edu. | 1997 | 71.5% | 3rd in class |
| SSC | | Sainik School, Satara | Central Board of Sec. Edu. Delhi | 1995 | 59.5% | --- |

**Awards / Scholarship:**

- Awarded CSIR NET JRF fellowship in December 2005.
- Qualified GATE 2006 in Physical sciences (Rank- 389)
- Qualified CSIR NET Examination again in June 2006.
- Qualified JEST 2006 in Physics (Rank – 256)

**Computer Expertise:**

- Programming: Fortran 90
- Proficiency in LINUX, Windows.
- Acquainted with LATEX and Python.

**Teaching Experience:**

- I have been working as an Assistant Professor at Rani Channamma University, Belagavi, Karnataka since August 2013 to till date.
- I have been guiding students for GATE and NET exams preparation for last 5 years. And also motivated and guided students to pursue research in reputed institute.
- I have been delivering guidance seminars for GATE/NET preparation to MSc students of universities in Karnataka.

**Research Experience:**

I have done basic research in nuclear physics studying nuclear structure using heavy ion reactions. While studying gamma ray spectroscopy, I used data analysis softwares like RADWARE and LAMPS.

**PhD thesis:**

I completed my Ph.D degree from Physics Department of IIT Bombay under the guidance of Dr Pragya Das. The title of my thesis was **"Study of high spin states of $^{126}$I using heavy ion fusion reactions"**. PhD degree has been awarded in August 2014.

**International Conferences attended:**

1. International conference on Nucleus Nucleus Collision NN2012, San Antonio, Texas, USA , 27th May to 2nd June, 2012.
2. My research paper titled "Fourth and fifth root of a number using Aryabhata's method" was presented as an oral presentation at the World Sanskrit Conference (WSC) 2015, held in Bangkok, Thailand from 28th June to 02nd July, 2015.

**Research publications:**

**A. In Journal:**

**1)** Triaxial nuclear shapes in $^{126}$I, **Bhushan Kanagalekar,** Pragya Das, Bhushan Bhujang, S. Muralithar, R. P. Singh, and R. K. Bhowmik, **Physical Review C 88, 054306 (2013).**

**2)** Investigation of complete and incomplete fusion in the $^{7}$Li+$^{124}$Sn reaction near Coulomb barrier energies, V. V. Parkar, Sushil K. Sharma, R. Palit, S. Upadhyaya, A. Shrivastava, S. K. Pandit, K. Mahata, V.Jha, S. Santra, K. Ramachandran, T. N. Nag, P. K. Rath, **Bhushan Kanagalekar,** and T. Trivedi, Physical Review C, Volume 97, 014607 (2018), ISSN: 2469-9993, Impact factor: 3.13.

**3)** Investigation of signature inversion in $^{126}$I through lifetime measurements, ,Himanshu Kumar Singh, Pragya Das, **Bhushan A Kanagalekar,** S. Muralithar and R. P. Singh **Physical Review C, Volume 100, 064306 (2019),** ISSN: 2469-9993, Impact factor: 3.08**.**

**4)** Role of neutron transfer in the reaction mechanism of 9Be + 169Tm, 181Ta, 187Re and 197Au systems, Prasanna M, V. V. Parkar, V. Jha, A. Parmar**, Bhushan A Kanagalekar**, B. G. Hegde. Nuclear Physics A 1029 (2023) 122570, ISSN: 0375-9474 Impact factor: 1.59.

**5)** Fusion of 7Li with 205Tl at near barrier energies, V. V. Parkar , Prasanna M., Ruchi Rathod, V. Jha, S. K. Pandit, A. Shrivastava, K. Mahata , K. Ramachandran, R. Palit, Md. S. R. Laskar , B. J. Roy, **Bhushan Kanagalekar** and B. G. Hegde. Physical Review C 109, 014610 (2024), ISSN: 2469-9993.

**6)** Neutron transfer in 7Li + 205Tl system : Prasanna M., V. V. Parkar, V. Jha, S. K. Pandit, A. Parmar, A. Shrivastava, K. Mahata, K. Ramachandran, R. Palit, **Bhushan Kanagalekar**, B. G. Hegde. European Physical Journal A, 60, 220 (2024). Impact factor: 2.6, ISSN: 1434-6001.

7) Synthesis, Structural Characterization of Substituted Phenoxyimine Based Ti(IV) Complexes for Ring Opening Polymerization and DFT studies: Prabhuodeyara M. Gurubasavaraj, Vinodkumar P. Sajjan, Herbert W Roesky, Vikram Pujari, Sanjeev R Inamdar, Neelamma B, Gummagol, Bhushan A, Kanagalekar, Chemistry Select, Volume 9, Issue 18, May 2024. Impact factor: 1.9, ISSN: 2365-6549

**B. <u>Book chapters</u>**

1. Fourth and fifth root of a number by Aryabhata's method, **Bhushan A Kanagalekar,** Selected research paper published after oral presentation at the World Sanskrit Conference (WSC) 2015, from 28$^{th}$ June to 2$^{nd}$ July 2015, at Bangkok, Thailand. ISBN: 978-93-87212-15-2, (Published in the year 2019).

**Details of foriegn visits:**

1. Visited USA to attend International conference on Nucleus-Nucleus collisions, NN2012, held in San Antonio, Texas, USA from 27th May to 2nd June, 2012. Presented a poster titled **"Large Triaxial deformation in $^{126}$I".**

2. Visited Thailand, to present a paper titled **"Fourth and fifth root of a number using Aryabhata's method"** as an oral presentation at the World Sanskrit Conference (WSC) 2015, held at Bangkok, Thailand from 28$^{th}$ June to 02$^{nd}$ July, 2015.