

Dr. Vivek Verma
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Academic Profile:

2013 - 2018 : **Ph.D.** in Statistics, **Gauhati University**, Assam, India.

2009 – 2011 : **M.Sc.** Statistics from *The University of Burdwan* [Gold Medelist]

Academic Achievement and Award:

1. Awarded DST-INSPIRE Senior Research Fellowship by Department of Science and Technology, Delhi.
2. Awarded DST-INSPIRE Junior Research Fellowship from 17st April, 2013 to 16th April, 2015, by Department of Science and Technology, Delhi.
3. Awarded Gold Medal, *The University of Burdwan*.
4. Awarded Certificate of Merit, by **Department of Statistics and Programme Implementation, Government of West Bengal**

Work Experience:

- At present (since 18th January, 2021) working as an **Assistant Professor** in the Department of Statistics, **Assam University Silchar**, Silchar, Assam.
- From 7th November, 2020 to 16th January, 2021 worked as a **Scientist-D** in a project entitled “Fever, Hyperglycemia, Swallowing and Hypertension Management in Acute Stroke: A Cluster Randomized Trial (India Quality Improvement in Stroke Care Study) under “Indian Stroke Research Network” the Department of Neurology, **All India Institute of Medical Sciences (AIIMS)**, New Delhi, India
- From 5th February, 2018 to 7th November, 2020 worked as a **Research Officer** in a project entitled “A Population based prospective cohort study to unravel the cause of stroke and cognitive decline: A cross-cultural perspective” the Department of Neurology, **All India Institute of Medical Sciences (AIIMS)**, New Delhi, India
- From 17th April, 2015 to 4th February, 2018 worked as a **Senior Research Fellow** in Department of Statistics of **Gauhati University**, Assam, India.
- Since 17th April 2013 to 16th April, 2015, worked as a **Junior Research Fellow** in Department of Statistics of **Gauhati University**, Assam, India.

- Previously (during 28th January, 2016 to 30th June, 2016), worked as a **Guest Faculty** of Research Methodology in B.Tech Programme at **Gauhati University Institute of Science and Technology**.
- Delivered lectures on *Application of Software in Demography*, organized by Sampling and Official Statistics Unit (SOSU), **Indian Statistical Institute**, and sponsored by the Office of the Registrar General of India, Govt. of India, during 13th - 24th January, 2014.
- Delivered lectures on *Basic Statistics and Application of Software*, organized by Department of Statistics, **Gauhati University** and sponsored by the Office of the Registrar General of India, Govt. of India, during 22th July- 2nd August, 2013.
- Previously (during 1st May 2012 to 31st December 2012), worked as a Data Analyst in the Biological Anthropological Unit, **Indian Statistical Institute**, Kolkata.
- Previously (during 1st November 2011 to 30th April 2012), worked as a Statistical Trainee in Population Studies Unit, **Indian Statistical Institute**, Kolkata on the topic entitled ‘To project the Indian population by different age groups for 2025 by utilizing Life table and other basic demographic features by using Leslie Matrix technique’ under the guidance of Dr. Prasanta Pathak .

Thesis Topic

Bayesian Estimation under Ranked Set Sampling with Applications to Demography
Supervisor: Prof. Dilip C. Nath,

Publication:

1. Pathak, P., & **Verma, V.** (2013). Projection of Indian Population by Using Leslie Matrix with Changing Age Specific Mortality Rate, Age Specific Fertility Rate and Age Specific Marital Fertility Rate. In *Advances in Growth Curve Models* (pp. 227-240). Springer, New York, NY.
2. Das, R., **Verma, V.** & Nath, D. C. (2017). Bayesian Estimation of Measles Vaccination Coverage under Ranked Set Sampling. *Statistics in Transition new series*. 18(4), 589-608.
3. **Verma, V.**, Nath, D. C., & Das, R. (2018). Bayesian Cramer-Rao Lower Bound of Variances Under Ranked Set Sampling. *Materials Today: Proceedings*. 5(1), 1747-1758.
4. Gulati K., Madhukar V., **Verma V.**, Singh AR., Gupta SK. & Sankar C., (2018). Medical Leadership Competencies: A Comparative Study of Physicians in Public and Private Sector Hospitals in India. *Int J Health Plann Mgmt*. 34(1), e947-e963.

5. **Verma V.**, Nath, D. C. & Das R. (2019) Bayesian bounds for population proportion under ranked set sampling, *Communications in Statistics - Simulation and Computation*, 48:2, 478-493, DOI: 10.1080/03610918.2017.1387659
6. **Verma, V.** and Nath, D. C. (2019). Characterization of the Sum of Binomial Random Variables under Ranked Set Sampling. *Statistics in Transition new series*. 20(3), 1-30.
7. **Vivek V.**, Das R.& Nath, D. C. (2019) Representativeness of Ranked Set Sampling based on Bayesian Score, *Communications in Statistics - Simulation and Computation*. 1-16 <https://doi.org/10.1080/03610918.2019.1662043>
8. Chowdhury, P.R., **Verma, V.**, Medhi, H. & Bhattacharyy, K.G. (2019) Empirical modelling of electron transport in Fe/Ti layered double hydroxide using exponential, Gaussian and mixed-Gauss exponential distribution. *ACS Omega*. 4(6), 10599-10609.
9. Gulati K., Sarkar C., **Verma V.**, Singh A.R.,& Gupta S.K.. (2019) Assessment of Medical Leadership Competencies and Development Needs: First Comprehensive Study from India. *International Journal of Healthcare Management*, 1-12.
10. **Verma, V.**, & Nath, D. C. (2019). Estimation of Measles Immunization Coverage in Guwahati by Ranked Set Sampling. In *Viruses*. IntechOpen. <https://doi.org/10.5772/intechopen.84382>
11. **Verma, V.**, Mishra, A. K., & Narang, R. (2019). Application of Bayesian Analysis in Medical Diagnosis. *Journal of the Practice of Cardiovascular Sciences*, 5(3), 136.
12. Gulati, K., Singh, A. R., Kumar, S., **Verma, V.**, Gupta, S. K., & Sarkar, C. (2019). Impact of a leadership development programme for physicians in India. *Leadership in Health Services*. <https://doi.org/10.1108/LHS-05-2019-0027>
13. Chowdhury, P. R., **Verma, V.**, Medhi, H., & Bhattacharyya, K. G. (2020). Mn/Ti layered double hydroxide: an investigation into the structure and electron transport through combinatorial experimental and theoretical approaches. *Materials Research Express*. 6(12), 125549.
14. **Verma, V.**, Vishwakarma, R. K., Nath, D. C., Khan, H. T., Prakash, R., & Abid, O. (2020). Prevalence and determinants of caesarean section in South and South-East Asian women. *Plos one*, 15(3), e0229906.
15. **Verma, V.**, Vishwakarma, R. K., Verma, A., Nath, D. C., & Khan, H. T. (2020). Time-to-Death approach in revealing Chronicity and Severity of COVID-19 across the World. *Plos One*, 15(5), e0233074.
16. Verma, B. K., Verma, M., Verma, V. K., Abdullah, R. B., Nath, D. C., Khan, H. T., ... & **Verma, V.** (2020). Global lockdown: An effective safeguard in responding to the threat of COVID-19. *Journal of Evaluation in Clinical Practice*.

17. Kumar, A., Misra, S., **Verma, V.**, Vishwakarma, R. K., Kamal, V. K., Nath, M., ... & Sahu, J. K. (2020). Global impact of environmental temperature and BCG vaccination coverage on the transmissibility and fatality rate of COVID-19. *PLoS ONE*. 15(10), e0240710. [ISBN 2053-1591]
18. **Verma V.**, Verma A., Mishra A.K., Khan H. T.A., Nath D.C. and Narang R.. (2020). Bayesian Estimation of Gender Differences in Lipid Profile, among Patients with Coronary Artery Disease. *Handbook of Intelligent Computing and Optimization for Sustainable Development*. **Wiley-Scrivener Publishing**[Accepted]
19. **Verma V.**, Mishra A.K., Verma A., Khan H. T.A., Nath D.C. and Narang R.(2020). Impact of gender on the Lipid Profile of Patients with Coronary Artery Disease: A Bayesian Analytical Approach. *Smart Computational Intelligence in Biomedical and Health Informatic*. **CRCPress**[Accepted]
20. **Verma, V.**, Mishra, A. K., Dhawan, A., & Nath, D. C. (2020). Diversity in substance use behaviour among street children of Delhi under Bayesian paradigm. *BMC Medical Research Methodology*, 20(1), 1-9.
21. Sagar, R., Kumar, A., **Verma, V.**, Yadav, A. K., Raj, R., Rawat, D., ... & Gulati, A. Incremental Accuracy of Blood Biomarkers for Predicting Clinical Outcomes After Intracerebral Hemorrhage. *Journal of Stroke and Cerebrovascular Diseases*, 30(3), 105537.
22. Nair, P., Vibha, D., Balasundaram, P., **Verma, V.**, Srivastava, A. K., Dwivedi, S. N., ... & Prasad, K. (2020, November). Measures of Brain Morphology: Baseline Results From LoCARPoN AIIMS COHORT STUDY. In *International Journal of Stroke* (Vol. 15, No. 1_ SUPPL, pp. 394-394). 1 OLIVERS YARD, 55 CITY ROAD, LONDON EC1Y 1SP, ENGLAND: SAGE PUBLICATIONS LTD. DOI: <https://doi.org/10.1177/1747493020963387>
23. Prasad. K.,....**Verma, V**.... Tiemeier, H. (2021). Cohort profile: The LoCARPoN - A Population-based Prospective Cohort study in middle aged and old adults in India. *International Journal of Epidemiology*. 1–14
24. KN M., Parashar N, Kumar S CR., **Verma V.**, ... Judith. (2020). Prevalence and Severity of Secondary Traumatic Stress and Optimism in Indian health care professionals during COVID-19 lockdown. *PLoS ONE* 16(9):e0257429

Software Skills:

Languages : C, C++ .
Data Analytical Tools : SAS, R, SPSS.

Projects Undertaken:

- Socio Economic Status of Burdwan Town and Estimation of Some Related Features.
(Under the guidance of Mr.Ajay Kr. Verma, Deputy Director General, **National Sample Survey Office (NSSO)**, Kolkata)