

Dr. Tek Chand Saini

Assistant Professor of Geography

School of Liberal and Creative Arts (Social Sciences and Languages),

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1 Professional Summary

Accomplished Assistant Professor of Geography with over four years of teaching experience at postgraduate and undergraduate levels, specializing in population geography, urban studies, and geospatial analysis. Renowned for expertise in Geographic Information Systems (GIS) and remote sensing, with a robust research portfolio focusing on spatial inequalities, urban heat islands, and health care access. Published 11 peer-reviewed articles and supervised PhD research, contributing to sustainable urban and regional development. Adept at statistical analysis, policy evaluation, and curriculum development, with a proven record of academic leadership and conference organization.

2 Academic Appointments

2.1 Assistant Professor of Geography August 2021 – Present

Lovely Professional University, Punjab, India

- Deliver courses in Population Geography, Settlement Geography, Indian Geography, Economic Geography, Regional Planning, Contemporary Issues in Human Geography, and Cartography, fostering critical thinking and practical application among students.
- Serve as Head of Labs (Geography & Psychology), managing lab operations, integrating geospatial technologies into curricula, and mentoring students in research methodologies.
- Supervised one PhD thesis to completion, guiding research on Methane Emission From Rice & Wheat Agricultural Practices In Haryana.

2.2 Assistant Research Officer (GIS) October 2020 – February 2021

INCLLEN Trust International, SOMAARTH DDESS, Palwal, Haryana

- Conducted geospatial analysis for health and demographic studies, leveraging GIS tools to map spatial inequalities and inform public health strategies.

3 Education

3.1 Ph.D. in Population Studies Awarded: September 2020

Centre for the Study of Regional Development, Jawaharlal Nehru University, New Delhi

- Thesis: Spatial Inequality in Access to Health Care Services in Rajasthan
- Supervisor: Professor Dr. Nandita Saikia

3.2 M.Phil. in Population Studies **June 2012 – July 2014**

Centre for the Study of Regional Development, Jawaharlal Nehru University, New Delhi

- CGPA: 6.17/9.0
- Dissertation: Obstetric and Contraceptive Morbidity among Currently Married Women in Rajasthan: A Study Based on DLHS-III (2007-08)
- Supervisor: Professor Muralidhar Vemuri

3.3 M.A. in Geography (Specialization: Population Geography) **August 2009 – July 2011**

Centre for the Study of Regional Development, Jawaharlal Nehru University, New Delhi

- CGPA: 5.52/9.0

3.4 B.A. in Geography (Honours) **July 2006 – June 2009**

New Govt. Arts College, Alwar, University of Rajasthan

- Percentage: 63.22%

3.5 Higher Secondary (Arts) **June 2006**

Little Birds Sr. Sec. School, Alwar

- Percentage: 72.15%

4 Research Interests

- Population Geography and Health Disparities
- Urban Heat Islands and Land Surface Temperature Analysis
- GIS and Remote Sensing Applications in Urban and Regional Planning
- Spatial Inequality in Health Care Access
- Reproductive Health and Child Immunization
- Evaluation of Government Health Programs using Census and Survey Data (NFHS, DLHS, AHS, NSSO)

5 Academic Leadership and Service

5.1 Convenor and Co-editor, 7th International Conference October 18-19, 2023

Lovely Professional University, Department of Geography, in collaboration with the National Association of Geographers, India (NAGI)

- Organized the conference themed Clean Water, Good Health, and Sustainable Cities & Communities, managing logistics, registration, and finance as a member of the organizing committee.
- Co-edited conference proceedings, ensuring high-quality Pupils output.

5.2 Head of Labs (Geography & Psychology) 2021 – Present

School of Liberal and Creative Arts, Lovely Professional University

- Oversee lab operations, integrate GIS and remote sensing tools into teaching, and mentor students in research projects.

5.3 Hostel Secretary 2013-2014

Jawaharlal Nehru University, New Delhi

- Managed hostel operations and student welfare for a diverse residential community.

6 Certifications and Professional Development

- AICTE Recognized Faculty Development Programme on NBA and NAAC Strategic Preparation for Enhancing Quality of Education, May 27-31, 2024, National Institute of Technical Teachers Training and Research (NITTR), Chandigarh
- Off-Campus Outreach Certificate Programme: Overview of RS & GIS Application for Natural Resource Management, November 13 – December 1, 2017, Indian Institute of Remote Sensing (IIRS), ISRO, Government of India
- Off-Campus Outreach Certificate Programme: Remote Sensing, GIS & Global Navigation Satellite System, August 4 – November 14, 2014, Indian Institute of Remote Sensing (IIRS), ISRO, Government of India
- Online Workshop on Teaching Geography, December 15-17, 2021, University of Delhi and Gangadhar Meher University, Sambalpur, Orissa
- Workshop on Introduction to R, March 23-25, 2015, Centre for Study of Regional Development, Jawaharlal Nehru University, New Delhi
- Workshop on Peri-Urban Land-Use Change in the Global South, September 17-18, 2013, Centre for Study of Regional Development, Jawaharlal Nehru University, and University of Cologne, Germany

7 Selected Publications

1. Singh, M., & Saini, T. C. (2024). Rice and Wheat Area Estimation Using Remote Sensing and GIS. *African Journal of Biomedical Research*, 27(4s), 1590-1599.
2. Singh, M., & Saini, T. C. (2024). Winter Wheat Acreage Estimation Using Sentinel-2 Data: A Case Study of Haryana State. *Educational Administration: Theory and Practice*, 30(5), 4251-4256.
3. Chauhan, S., Saini, T. C., & Mahala, A. (2024). Access of Land Degradation in a Plateau Region: A Case Study of Eastern Chotanagpur Plateau, India. *Educational Administration: Theory and Practice*, 30(5), 2444-2453.
4. Verma, R., Ahmad, S., & Saini, T. C. (2023). The Power of Psychological Conditioning in Apple's Marketing Strategies. *European Chemical Bulletin*, 12(Special Issue 6), 8350-8364.
5. Kumari, M., & Saini, T. C. (2023). Systematic Review on Improving the Quality of Care in Private Hospitals of Urban Areas in Haryana. *Education and Society*, 47(1), 63-66.
6. Saini, T. C., & Chauhan, A. (2020-2021). Spatial Variation of Contraceptive Morbidity Among Currently Married Women in Rajasthan. *North Eastern Geographer*, 41(1 & 2), 44-55.
7. Saini, T. C. (2020). Does Access to Maternal and Child Health Care (MCH) Services in India Change in a Decade? *Research Review International Journal of Multidisciplinary*, 10(5), 8-14.
8. Saini, T. C. (2020). Pattern of Self-Reported Chronic Morbidity and Its Treatment Behaviour in India. *International Journal of Advance Research and Innovative Ideas in Education*, 6(5), 15131522.
9. Saini, T. C. (2020). Self-Reported Chronic Morbidity in Rajasthan: A Study Based on Annual Health Survey. *International Journal of Multidisciplinary Educational Research*, 9(10), 151-165.
10. Saini, T. C. (2020). Availability of Primary Health Facilities in Rajasthan: Spatial Analysis. *International Journal of Applied Social Science*, 7(5&6), 240-250.
11. Saini, T. C. (2017). Spatial Pattern of Pregnancy Complication Among Currently Married Women in Rajasthan. *Research Link*, 16(9), 145-147.

8 Conference Presentations

- Determining Methane Emission Missing Ratios of Wheat Crop Using Sentinel-5P: A Case Study of Haryana, India, October 18-19, 2023, 7th International Conference on Clean Water, Good Health, and Sustainable Cities & Communities, Lovely Professional University, Punjab

- Tourism in Udhampur (J&K): Prospects and Challenges, October 18-19, 2023, 7th International Conference on Clean Water, Good Health, and Sustainable Cities & Communities, Lovely Professional University, Punjab
- Changing Pattern of Trade in Poo Town, Himachal Pradesh, October 18-19, 2023, 7th International Conference on Clean Water, Good Health, and Sustainable Cities & Communities, Lovely Professional University, Punjab
- Spatial Inequality in Access to Health Care Service in India, June 28-30, 2018, International Health Conference, St Hugh's College, Oxford, United Kingdom
- Population, Health, and Development: Global and National Policy Perspective, February 15-17, 2018, International Seminar, International Institute for Population Science (IIPS), Mumbai
- Geographical Variation in COVID-19 Cases, Prevalence, Recovery, and Fatality Rate by Phase of National Lockdown in India, March 14-July 31, 2020, February 2021, Wittgenstein Centre Conference 2020, Vienna

9 Professional Qualifications

- UGC NET – Junior Research Fellowship (JRF) in Population Studies, Awarded: December 2011
- UGC National Eligibility Test (NET) in Geography, Qualified: December 2014

10 Skills

- **Geospatial Analysis:** Expert in GIS, ArcGIS, and remote sensing for spatial mapping and urban planning.
- **Statistical Tools:** Proficient in SPSS, STATA, and R for advanced data analysis and visualization.
- **Data Expertise:** Skilled in handling primary and secondary datasets (NFHS, DLHS, AHS, NSSO) for policy research.
- **Survey Design:** Experienced in developing questionnaires for field-based studies.
- **Software Proficiency:** Advanced knowledge of Microsoft Word, Excel, and PowerPoint.
- **Languages:** Fluent in English, Hindi, and local dialects of the National Capital Region.

11 Personal Information

- Age: 33
- Nationality: Indian

- Hobbies: Trekking, Cycling, Traveling
- Permanent Address: House No. 31, Mukesh Nursery, Opposite Wonder Heights, Malviya Nagar Bus Stop, Alwar, Rajasthan, India, Pin: 301001