

Dr. Ajay Kumar
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Educational qualification:

Ph.D., M.Phil. and M.A. in Geography from University of Delhi; B.Sc. from University of Rajasthan; UGC-NET (Dec-2007); UGC-JRF (June-2010).

Awards and Fellowship

UGC-JRF (2010); Travel and Local hospitality Grant from APEC Climate Center, Busan, South Korea (2012), Hiroshima Jugakuin University, Japan (2013), IGU Conference, Kyoto, Japan (2013), Tribhuvan University, Kathmandu, Nepal (2013), IGU Conference, Moscow, Russia (2015); Grant for two weeks training workshop at Chinese Academy of Sciences, Beijing, China (2014). Local Organizer Grant and IGU Travel Grant for IGU, Moscow (2015)

Membership and Editor:

Member, Young Side Event, UNISDR S&T Conference, Geneva; Life Member, National Association of Geographers India (NAGI) and Association of Geographical Studies (AGS); Guest Editor, Physics and Chemistry of Earth-Journal-Elsevier; Guest Editor, Regional Environmental Change-Journal-Springer

Specialization:

Environmental Problems and Policies; Climate Change; Disaster Management; GIS and Remote Sensing; Arid Environment

Present Employment

Associate Professor, Department of Geography, Bansur PG College, Bansur (Alwar) (since August, 2016)

Experience

Assistant Professor in **Shaheed Bhagat Singh College**, University of Delhi for the period of January, 2016 – August, 2016; Assistant Professor in **Swami Shradhanand College**, University of Delhi for the period of August, 2012 – May, 2015; **Swami Shradhanand College**, University of Delhi for the period of February-March, 2010; Guest teaching at **Shaheed Bhagat Singh College** during August-November, 2015; **Kirori Mal College** during August, 2010 to April, 2012; Taking Tutorials of M.A. students in **Department of Geography, University of Delhi** since March, 2009 for the papers Ecology and Environment and Environmental Impact Assessment.

Ph.D. Supervision

- Mr. Murari Lal – Environmental Degradation in Fringe Areas of Sariska National Park
- Mr. Premaram Sankhla – Impact of Climate Change on Agriculture in Jodhpur: A Micro Level Analysis
- Mr. Manoj Kumar – Challenges and Opportunities for Water Resource Development in Nadoti Tehsil, Karauli

Publications (4 books, 14 papers in international journals and books, 13 papers in national journal and books, 2 papers under-publication)

Books

- **Jal Prabandhan Bhoogol (जल प्रबन्धन भूगोल)**, Malik and Company, Jaipur (ISBN: 978-81-7998-182-5)

- **Environmental Dimensions of Jhakham Command Area.** Ritu Publications, Jaipur (ISBN: 987-93-81451-19-9).
- **Jal Sankat: Sanrakshan Evam Bhavishya Ki Chunoutiyan** जल संकट: संरक्षण एवं भविष्य की चुनौतियाँ. Jyoti Prakashan, Jaipur (ISBN: 978-81-8798-847-2).
- **Dynamics of Rural Development in Delhi.** Research India Press, Delhi (ISBN: 978-81-89131-97-5).

Research Papers in International Journals/Books

- **“Assessment of Land-Use/Land-Cover Change and Forest Fragmentation in the Garhwal Himalayan Region of India”** *Environments* 4(34), 2017 (ISSN 2076-3298)
- **“Optimising Green Spaces for Sustainable Urban Planning: A Case of Jaipur, Rajasthan”.** In Sharma, P. and Rajput, S (Eds) *Sustainable Smart Cities in India*. Springer, Japan, pp. 175-184, 2017 (ISBN: 978-3-319-47145-7)
- **“The Energy Scenario of India: An Assessment”.** In Sharma, P. and Rajput, S (Eds) *Sustainable Smart Cities in India*. Springer, Japan, pp. 321-332, 2017 (ISBN: 978-3-319-47145-7)
- **“Environment and Resource”** In R.B. Singh (ed.) *Progress in Indian Geography: A Country Report, 2012-2016 for the 33rd International Geographical Congress, Beijing, China (August 21-25, 2016)*. Indian National Science Academy, New Delhi, pp 59-76 (2016)
- **“Remote Sensing and GIS”** In R.B. Singh (ed.) *Progress in Indian Geography: A Country Report, 2012-2016 for the 33rd International Geographical Congress, Beijing, China (August 21-25, 2016)*. Indian National Science Academy, New Delhi, pp 193-213 (2016)
- **“Prioritizing Watersheds for Sustainable Development in Swan Catchment Area, Himachal Pradesh, India”.** In Singh, R.B., Prokop, Pawel (Eds.) *Environmental Geography of South Asia Contributions Toward a Future Earth Initiative*. Springer, Japan, pp. 49-66, 2015 (ISBN: 978-4-431-55740-1)
- **“Climate variability and water resource scarcity in drylands of Rajasthan, India”** *Geoenvironmental Disasters*, 110, 2015 (ISSN: 21978670)
- **“Climate Change and Ecosystem Service Services in Kullu Valley, Himachal Pradesh”** In Singh, R.B. and Heitala, R. (Eds.) *Livelihood Security in Northwestern Himalaya*, Tokyo: Springer, 2014 (ISBN: 978-4-431-54868-3).
- **“Vulnerability of Agriculture to Climate Change in Arid Regions: a Case Study of Western Rajasthan”** In Ademola K. Braimoh and He Qing Huang (Eds.) *Vulnerability of Land Systems in Asia*. Wiley Publication, 77-89 (ISBN: 978-1-118-85495-2)
- **“Environmental Implications of Depleting Traditional Water Bodies in NCT of Delhi”**, in Y. Himiyama (ed) *Towards Sustainable Land Use in Asia (IV)*, SLUAS Science Report, Asahikwa.
- **“Climate Variability in Dry Regions of India: A Case Study of Rajasthan”** in *Scientific Annals Of “Alexandru Ioan Cuza” University Of Iasi* Volume 58(2): 59-76 (2012) (ISSN: 1223-5334; E ISSN 2284-6379)
- **“Regional Planning and Development”** In R.B. Singh (ed.) *Progress in Indian Geography: A Country Report, 2008-2012 for the 32nd International Geographical Congress, Cologne, Germany (August 26-30, 2012)*. Indian National Science Academy, New Delhi (2012)

- **"Climate Variability, Water Resource Scarcity and Policy Shift in Drylands of Rajasthan, India"** in Proceedings of International Conference on Climate, Water and Policy (ICCWP), Exploring Climate Application Series I, ICCWP Handbook, APEC Climate Center, Busan, South Korea, September, 11-13, 2012.
- **"Climate Change, Water Resources and Land Use Change in Drylands of Rajasthan, India"** Land use/cover changes in selected regions of the world, volume VI, IGU LUCC, July 2012.

Research Papers in National Journals/Books

- **"Agriculture Dynamics in Response to Climate Change in Rajasthan"** The Delhi University Journal of the Humanities and Social Sciences, 3, 2016 (ISSN 2348-4357)
- Published article on **"Understanding Climate Change induced Disasters for Sustainable Future Earth: Case Studies of Rajasthan and Uttarakhand Himalaya"** in World Focus: Climate Change – A Narrative that is Changing the World, Volume 430, October, 2015 (ISSN: 2230-8458)
- Published article on **"Renewable Energy Sources for Sustainability of India's Future Earth"** in World Focus: Disaster Management in India, Volume 425, May, 2015 (ISSN: 2230-8458)
- Published article on **"Managing Natural Disasters"** in Teacher Plus: Facets of Geography, Volume May-June, 2014, Orient Longman (ISSN: 0973-778)
- Published article on **"Mitigating the Risk of Climate Change Induced Disasters in Arid Regions of India"** in World Focus: Disaster Management in India, Volume 415, July, 2014 (ISSN: 2230-8458)
- Published paper on **"Land Use Land Cover Change in Peripheral National Capital Region: A Case Study of Alwar District, Rajasthan"** in Journal of Water and Landuse Management, Volume 13 (2): 13-24 (2013) (ISSN 0973-9300)
- Published paper on **"Marusthaliya Paristhiti par Sinchai ka Prabhav"** मरुस्थलीय पारिस्थितिकी पर सिंचाई का प्रभाव (Hindi) in Jal Prabandh Sodh Patrika, Volume 2: 103-115 (ISSN 0975- 704X)
- Published paper on **"Impact of Changing Monsoon Pattern on Dryland Agriculture in India: A Case of Nagaur District"** in Journal of Water and Landuse Management, Volume 13 (1): 1-14 (2013) (ISSN 0973-9300)
- Published chapter on **"Environmental Implications of Brass Industry in Moradabad City, Uttar Pradesh"**. In S. Anand (ed.) Progress in Environmental Issues: Indian Perspective, Research India Press (2013).
- Published paper on **"Sustainable Livelihood Development through Indira Gandhi Canal Project: A Case of Bikaner District, Rajasthan"** in Journal of Water and Landuse Management, Volume 12: 1-16 (2012) (ISSN 0973-9300)
- Published paper on **"Climate Variability in Arid Region of Rajasthan"** in Annals of National Association of Geographers, India Volume 31(1): 21-38 (2011) (ISSN 0970-972X)
- Published chapter on **"Economic Reforms, Employment Generation and Inclusive Growth in India"** In B.S Yadav, Anand Singh and F.A Ahmed (eds.), New Economic Policies and Employment Opportunities in India, Shree publishers and Distributer. pp. 1-12. (2012)
- Published chapter on **"Climate Change Variability, Vulnerability Assessment and Mitigation Strategy in Indian Arid Region"** In K.N. Singh and N.K. Rana (eds.), Holistic

Development: A Geographical Perspective, Radha Publication, New Delhi. pp. 116-125. (2012)

Workshops

- Faculty Development Programme “**Comprehensive e-learning to e-training for Administrative Work**” organised by Ramanujam College, Delhi University during May, 25 – June, 05, 2020
- Faculty Development Programme “**Data Handling and Advanced Analytics**” organised by Department of Geography, Shaheed Bhagat Singh College, Delhi University during May, 02 – 08, 2016
- Training Workshop on “**Computer based Modelling in Geographical Research**” at Chinese Science Academy, Beijing, China during 10-20, June, 2014.
- “**ICSSR Sponsored Research Methodology Course for Social Sciences**” at Swami Shradhanand College, University of Delhi during December 26, 2013 and January 01, 2014.
- Training Programme on “**Remote Sensing-GIS with TNTmips Software: Special Reference to Livelihood Security in Changing Socio-Economic Environment in Himachal Pradesh**” at Department of Geography, University of Delhi during 18-21 December, 2013.

Research Paper Presentation at Seminars and Conferences:

International

- ◆ Presented poster on “**Role of Digitalization of Agro-markets**” at India International Science Festival, IIT Delhi organized by Ministry of Science and Technology and Ministry of Earth Sciences during December 4-8, 2015
- ◆ Presented paper on “**Prospects of GIS Mapping for Resource Management in Ganga River Basin**” at International Water Conference organized by PHD Chamber of Commerce during December 2, 2015
- ◆ Presented paper on “**Paradigm Shift in Forest Conservation and Management in Sariska National Park, Rajasthan**” at 8th India International Geographical Union (IGU) conference on Land use, water, climate and urban health in changing urban environments organized by SNDT Women’s University, Pune during November 4-6, 2015
- ◆ Presented paper on “**Climate Change and Water Resource Scarcity in Rajasthan, India**” at International Geographical Union Conference organized by Lomonosov Moscow State University, Moscow during August 17-21, 2015
- ◆ Presented paper on “**Climate Variability, Water Resource Scarcity and Management in Drylands of Rajasthan, India: Lessons from South Korea’s River Restoration Project**” at International conference on Evolving Indo-Korea Relations; Perspectives on South Asia organized by RASK and Department of East Asian Studies, University of Delhi during March 27-28, 2015
- ◆ Presented paper on “**Bio-physical Vulnerability of Agriculture to Climate Change in Rajasthan**” at International conference on Natural Resource Management for Food Security and Rural Livelihoods organized by Soil Conservation Society of India during February 10-13, 2015
- ◆ Presented paper on “**Strategy for Controlling Water-logging in Drylands of India: A Case of Western Rajasthan**” at International Geographical Union Conference (IGU) Regional Conference, Kyoto (Japan) during August 4-9, 2013

- ◆ Presented paper on “**Impact of Changing Monsoonal Pattern on Drylands of India: A Case of Nagaur District**” at International Geographical Union Conference (IGU) Regional Conference, Kyoto (Japan) during August 4-9, 2013
- ◆ Presented paper on “**Local Knowledge and Forest Management in Changing Environment of Rajasthan Drylands in India: A Case of Sariska National Park**” at International Geographical Union Conference (IGU) Regional Conference, Kyoto (Japan) during August 4-9, 2013
- ◆ Presented paper on “**Local Knowledge and Forest Management in Changing Environment of Rajasthan Drylands: A Case of Sariska National Park and Fringe area**” at 1st Project Workshop on Regional Governance in Forest and its Fringe, Hiroshima Jogakuin University, Hiroshima, August 3, 2013
- ◆ Presented paper on “**Climate Variability and Resource Use Dynamics in Drylands: A Case Study of Nagaur District, Rajasthan, India**” at International Geographical Union Conference, MDU Rohtak during March, 14-16, 2013.
- ◆ Presented paper on "**Joint Forest Management: Community Response and Local Governance in Drylands: A Case Study of Alwar, Rajasthan, India**" at International symposium on 'Changing Mountain Environments in Asia' at Tribhuvan University, Kathmandu (Nepal) during October, 7-9, 2012
- ◆ Presented paper on "**Climate Variability, Water Resource Scarcity and Policy Shift in Drylands of Rajasthan, India**" at International Conference on Climate, Water and Policy (ICCWP), APEC Climate Center, Busan (South Korea), September, 11-13, 2012.
- ◆ Attended IPCC-SREX Outreach event Delhi on **Managing the Risks of Climate Extremes and Disasters in Asia** organized by IPCC and CDKN during 2-3, May 2012.
- ◆ Attended International seminar on ‘**Sustainable Habitat**’ organized by IIT Delhi during 09-11, December 2011.
- ◆ Presented paper on “**Forest Management in Semi-Arid Regions with Special Reference to Sariska, Rajasthan**” in International Project Workshop on Forest Management and Regional Governance organized by Department of Geography, Hiroshima Jogakuin University, Hiroshima, Japan and Department of Geography, University of Mysore, Mysore during 5-6 November, 2011
- ◆ Presented paper on “Climate Vulnerability of Arid Regions of India” at IGU International Seminar on “**Biodiversity and Climate Change**” organized by Cotton College, Guwahati during 15-17 December, 2010

National

- ◆ Presented paper on “**Management Strategy for Reducing Agriculture Vulnerability to Climate Change in Drylands of Rajasthan**” at DST-SERB supported National Conference on Climate Change: Impacts, Adaptation, Mitigation Scenario and Future Challenges in Indian Perspective organized by Department of Botany, DDU College during March 2-3, 2015
- ◆ Attended 13th ESRI India User Conference on **GIS – Opening Our World** organized by ESRI during 5-6, December 2012.
- ◆ Participated in UGC-SAP workshop on **Advanced Spatial Techniques** organized by Department of Geography, Delhi School of Economics, University of Delhi during 22-24, March 2012.

- ◆ Presented paper on “**Climate Variability in Arid Region of Rajasthan**” in 33rd Indian National Congress of National Association of Geography (NAGI) organized by Department of Geography, Bardhaman University, Burdwan during 11-13 November, 2011
- ◆ Participated in workshop organized by TERI University on “**Environmental Standards, Industrial Policy and Consumer protection**” on 23-24th February 2011.
- ◆ Presented paper on “**Economic Reforms, Employment Generation and Inclusive Growth in India**” at National Conference on Impact of Economic Reforms on Generation of Employment Opportunities in India sponsored by ICSSR at SMCL Kaka Girls Degree College, Sikandrabad during 6 – 7, March 2011.
- ◆ 32nd Indian National Congress of National Association of Geography (NAGI) organized by Department of Geography, Panjab University, Chandigarh during 19-21 November, 2010
- ◆ 31st Indian National Congress of National Association of Geography (NAGI) organized by Department of Geography, Rani Durgavati University, Jabalpur during 19-21 November, 2009
- ◆ UGC – SAP National seminar on “**Inclusive Growth and Regional Planning**” organized by Department of Geography, Delhi School of Economics, University of Delhi at February 27-28, 2009.
- ◆ National seminar on “**Global Climate change and Panchayti Raj**” organized by Indian Environmental Society, New Delhi at Department of Science & Technology on September 22nd, 2008

Computer Skills:

- ◆ Proficiency in internet use and MS-Office (Word, Excel, Power point).
- ◆ Software used: Arc GIS ver. 10.0, Arc View ver. 3.2, ERDAS IMAGINE ver. 9.2, ILWIS, QGIS, Adobe Photoshop, Coral Draw (Proficiency Level: Advanced).

Date: 12/06/2020

AJAY KUMAR