




## Curriculum Vitae

Title	Dr.	First Name	Netrananda	Last Name	Sahu	Photograph
Designation	<b>Assistant Professor</b>					
Address	<b>Department of Geography, Delhi School of Economics, University of Delhi, Delhi 110007</b>					
Phone No Office	<b>+91-11-27666491</b>					
Residence						
Mobile	<b>+91-9910850478</b>					
Email	<a href="mailto:babunsahu@gmail.com">babunsahu@gmail.com</a> , <a href="mailto:nsahu@geography.du.ac.in">nsahu@geography.du.ac.in</a>					
Web-Page						
<b>Educational Qualifications</b>						
Degree	Institution				Year	
Ph.D.	<b>Department of Urban and Environmental Engineering, Kyoto University</b>				<b>2012</b>	
M.Phil.	<b>Department of East Asian Studies, University of Delhi</b>				<b>2008</b>	
PG	<b>Department of Geography, University of Delhi</b>				<b>2004</b>	
Any other qualification	<b>UGC-NET/JRF</b>				<b>2005</b>	
Training	<p>Two months from April-May, 2012, Internship Program Young Researcher Overseas Research to <b>International Research Institute for Climate and Society (IRI), Columbia University, New York.</b> Under the guidance of Dr. Andrew Robertson, Program is sponsored by GCOE-ARS Program, Kyoto University, Japan</p> <p>Three months from Sept-Nov, 2011, Young Researcher Overseas Trip to International Research Institute for Climate and Society (<b>IRI</b>), <b>Columbia University</b>, New York.</p> <p>Two months Internship from Feb-March, 2010 at <b>JAMSTEC</b> under Dr. SwadhinK.Behera, Team Leader, Low-latitude Climate Prediction Research, CVPARP/RIGC, <b>JAMSTEC</b>, Yokohama, sponsored by <b>GCOE-HSE</b> Program, Kyoto</p>				<p>2012</p> <p>2011</p> <p>2010</p>	

	<p>University.Japan.</p> <p><b>UNESCO-IHP</b> Training Course on ‘Water Resources and Water-Related Disasters under Climate Change-Prediction, Impact, Assessment and Adaptation’ from 29 Nov.-12Dec, 2009 at Disaster Prevention Research Institute (DPRI), Kyoto University, Japan</p> <p>Four Days Training on Remote Sensing-GIS with TNTmips Software for Livelihood of Himachal Pradesh, Department of Geography, Delhi School of Economics, University of Delhi from 18-21 December 2013.</p>	
Refresher/Orientation	<p>One month Orientation Course from 27<sup>th</sup> April to 25<sup>th</sup> May 2016 at UGC-HRD, Jamia Milia Islamia</p> <p>Three weeks Refresher course from CPDHE, University of Delhi, November 28<sup>th</sup> to December 19<sup>th</sup>, 2017</p>	

#### Career Profile

Organisation/Institution	Designation	Duration
Department of Geography, University of Delhi	Assistant Professor (Permanent)	22/02/2014 – Till date
Department of Geography, University of Delhi	Assistant Professor (Ad-hoc)	02/01/2014 – 20/02/2014
Swami Shraddhanand College, University of Delhi	Assistant Professor (Ad-hoc)	19/08/2013 – 14/12/2013
National Institute of Disaster Management, Delhi	Research Associate	15/05/2013-14/08/2013

#### Administrative Assignments

NA

#### Areas of Interest / Specialization

River Hydrology/Hydrometeorology/Climate Variability/Predictability/Seasonal Forecast/Extreme Events and Disaster Management

#### Subjects Taught

**Disaster Management, Environmental Impact Assessment, Statistical Applications in Geography, Field Techniques, Advances in Physical Geography, Principles in Political Geography**

#### Time Table of the subject taught during the current semester

Sl. No	Subject	Days/Week	Time	Classroom
1	EIA	5	3 Hours	Lecture
2	APG (sharing)		3 Hours	Lecture
3	Coursework M.Phil P-II(sharing)		2 Hours	
4	Coursework Ph.D. P-II(sharing)		Lecture	

			<b>2 Hours Lecture</b>
<b>5</b>	<b>3 Ph.D and 3 M.Pill (Ongoing) 2 submitted recently</b>		<b>6 Hours Lecture</b>
<b>Research Guidance</b>			
3 Ph.D (Ongoing): M.Phil: 1 awarded, 2 submitted and 1 M.Phil (ongoing)			
<b>Publications Profile</b>			
<b>Research papers published in Refereed/Peer Reviewed Journals</b>			
<ul style="list-style-type: none"> <li>Sahu N, Panda A, Mishra M, Sahu L, Avtar R: (2018) Streamflow sensitivity to climate variability in Mahanadi Basin, India' <i>Environmental Earth Science</i>. (impact factor:1.76, scopus), Manuscript Id:ENGE-D-18-02008, (Manuscript Submitted) <b>Journal h-index 91.</b></li> <li><b>Sahu N</b>, Saini A, Behera SK, Singh RB, Takara K: Impact of Indo-Pacific climate variability on rice productivity, <i>Nature Climate Change</i> Manuscript id: NCLIM-18091644 (Manuscript submitted).</li> <li>Panda A and Sahu N: (2018) Understanding the relation between seasonal climatic parameters and cropping pattern in Bolangir district of Odisha, <i>Journal of Water and Land use Management</i>, Vol 16, Issue 2. (accepted).</li> <li>Kumar M, Singh RB, Pravesh R, Kumar P, Tripathi DK, <b>Sahu N</b>: Urban Growth Dynamics and Modeling using Remote Sensing Data and Multivariate Statistical Techniques, <i>Current Science</i>, (impact factor:0.883, scopus), Vol. 114, Issue:10 2018. <b>Journal h-Index 98.</b></li> <li>Sahu N, Robertson A, Boer R, Behera S, DeWitt DG, Kaoru T, Kumar M, Singh RB: Probabilistic Seasonal Streamflow Forecasts of the <b>Citarum River, Indonesia</b>, Based on General Circulation Models, <i>Journal of Stochastic Environmental Research and Risk Assessment</i>, 2016, doi 10.1007/s00477-016-1297-4, (impact factor:2.629, scopus), Rank 18/50 (Environmental Engineering), <b>Journal h-index 57.</b></li> <li>Duan W, Bin H, Sahu N, Pingping L, Daniel N, Kaoru T: Spatiotemporal variability of Hokkaido's seasonal precipitation in recent decades and connection to water vapor flux, <i>International Journal of Climatology</i>: doi: 10.1002/joc.4946: vol 37, Issue No. 9, July 2017, 3660-3673, (Impact factor <b>3.76</b>, scopus), 14/84 (Meteorology &amp; Atmospheric Sciences). <b>Journal h-index 131.</b></li> <li><b>Sahu N.</b>, Behera SK, Ratnam JV, Silva RV, Parhi P, Duan W, Takara K, Singh RB and Yamagata T: El Nino Modoki connection to extremely-low streamflow of the Paranaiba River in Brazil, <i>Climate Dynamics</i>, 2014: 42,1509-1516, DOI 10.1007/s00382-013-2006-3. (Impact factor:4.146, Scopus), Rank 2/105 (Atmospheric Science). <b>Journal h-Index 136.</b></li> <li><b>Sahu N.</b>, Behera SK, Yamashiki Y, Takara K and Yamagata T: IOD and ENSO impacts on the extreme stream-flows of <b>Citarum river in Indonesia</b>, <i>Climate Dynamics</i>, doi:10.1007/s00382-011-1158-2. 2012, Volume 39, Issue 7-8, pp 1673-1680. (Impact factor:4.146, Scopus) Rank 2/105 (Atmospheric Science). <b>Journal h-Index 136.</b></li> </ul>			

- **Sahu N**, Singh RB, Kumar P, Silva RV, Behera SK: La Niña Impacts on Austral Summer Extreme High-Streamflow Events of the Paranaíba River in Brazil, *Advances in Meteorology*, Vol. 2013, Article ID 461693, <http://dx.doi.org/10.1155/2013/461693>, ISSN NO. 1687-9309., (Impact factor:1.277, Scopus), Journal h-index 17.
- Duan W.,Takara K., Yamashiki Y., Bin H., Pingping L., Daniel N., **Sahu N.**: Spatiotemporal evaluation of water quality incidents in Japan between 1996 and 2007, *Chemosphere* 93(6):946-953, 2013, doi: 10.1016/j.chemosphere.2013.05.060 Impact factor 4.208 (Scopus), Rank 19/98, (Environmental Chemistry) Journal h-index 197.
- Ram Avtar, Pankaj Kumar, C.K. Singh, **Netrananda Sahu**, R.L. Verma, J.K. Thakur, S. Mukherjee: Hydrogeochemical Assessment of Groundwater Quality of Bundelkhand, India Using Statistical Approach, *Water Quality, Exposure and Health*, 2013, DOI 10.1007/s12403-013-0094-2. (Impact factor:4.850, Scopus), Journal h-index 7.
- Gupta LN, Avtar R, Kumar P, Gupta GS, Verma RL, **Sahu N**, Sourav Sil, Jayaraman A, Roychowdhury K, Sharma K and Singh S: Multivariate Approach for Water Quality Assessment of River Mandakini at Chitrakoot, India, *Journal of Water Resources and Hydraulic Engineering*, Mar. 2014, Vol. 3 Iss. 1, PP. 22-29.
- **Sahu N.**,Behera, S.K.,Yamashiki, Y.,Takara, K. and Yamagata, T.,: Large Impacts of Indo-Pacific Climate Modes on the Extreme Streamflows of **Citarum River in Indonesia**, *Journal of Global Environmental Engineering*,Vol.17,pp.1-8,2012. Journal h-index 7.
- **Sahu N.**, Yosuke Yamashiki, and Kaoru Takara,: Indo-Pacific Climate Impacts on the River Discharges of the Citarum Basin,Indonesia,*Japan Society of Civil Engineering, JSCE*, ISSN:1345-8507,pp. 329-332, 2011.

#### Research papers published in Academic Journals other than Refereed/Peer Reviewed Journals

- **Sahu, N.**, Yamashiki, Y.and Takara K.,: An Observation on the Relationship between Climate Variability Modes and River Discharges of the Citarum Basin, Indonesia,*Kyoto University Disaster Prevention Research Institute,Annals*, Vol. 54 B, pp. 49-55, 2011.
- **Sahu, N.**, Yamashiki, Y. and Takara, K., (2010): Impact Assessment of IOD/ENSO in the Asian Region, *Kyoto University Disaster Prevention Research Institute,Annals*,, Vol. 53 B, pp.97-102, 2010.
- **Sahu N.**, Yamashiki Y., and Kaoru T. Avatar R. and Singh R.B.: Impacts of ENSO on the Paranaiba River Basin,Brazil,*Kyoto University Disaster Prevention Research Institute,Annals*,Vol.55, pp. 102-108,2012.

#### Proceedings of International and Domestic Conferences (Published)/Book Chapters

- **Sahu N:** (2018). Global Environmental Challenges and Indian Ocean Dipole, Seema Sahdev and Manish Kumar (Eds), Environmental and Sustainable Development; An Appraisal, 2017, Concept Publication, New Delhi 110059.
- Saini, A., and **Sahu, N.** (2017). Urbanization Induced Air Pollution and its Impact: Cases of Delhi and

Seoul. In *Forging a Multidimensional Partnership in the 21st Century*, Ed Sushila Narsimham and Kim Do Young (pp. 123-143). New Delhi: Manak Publication Pvt., ISBN: 9789378314438.

- Singh, R.B. and **Sahu Netrananda.**: Climate Change, Flooding and Biodiversity in the Sundarban Region, West Bengal-*Geoinformatics for Monitoring and Modelling Land use, Biodiversity and Climate Change*: contribution towards international year of planet earth, Etd Singh R.B. et al., Proceedings of International Conference on Land Use Change, Biodiversity and Climate Change, organized by Nesamony Memorial Christian College, Kanyakumari, Tamil Nadu on 6-7<sup>th</sup>, October, 2008 ), Vol. 1, ISBN 13:978-81-908283-1-4.2008.
- **Sahu N**: Posco Deal: A Major Economic Breakthrough for the Government of Orissa, Chapter 9, (Etd.) *India and Korea: Bridging the Gap*, Dr. (Prof.) SusilaNarsimham and Dr. (Prof.) Du-Yung Kim, Manak Publication, New Delhi, ISBN 10:81-78271-98-2.,Chapter 9.,2007.

#### Publication in Last One Year

- Duan W, Bin H, Sahu N, Pingping L, Daniel N, Kaoru T: Spatiotemporal variability of Hokkaido's seasonal precipitation in recent decades and connection to water vapor flux, *International Journal of Climatology*: doi: 10.1002/joc.4946: vol 37, Issue No. 9, July 2017,3660-3673, (Impact factor **3.76**, scopus), 14/84 (Meteorology & Atmospheric Sciences). **Journal h-index 131**.
- Kumar M, Singh RB, Pravesh R, Kumar P, Tripathi DK, **Sahu N**: Urban Growth Dynamics and Modeling using Remote Sensing Data and Multivariate Statistical Techniques, *Current Science*, (impact factor:**0.883**, scopus), Vol. 114, Issue:10 2018. **Journal h-Index 98**.
- Panda A and Sahu N: (2018) Understanding the relation between seasonal climatic parameters and cropping pattern in Bolangir district of Odisha, *Journal of Water and Land use Management*, Vol 16, Issue 2. (accepted).
- **Sahu N**: (2018). Global Environmental Challenges and Indian Ocean Dipole, Seema Sahdev and Manish Kumar (Eds), *Environmental and Sustainable Development; An Appraisal*, 2017, Concept Publication, New Delhi 110059.
- Saini, A., and **Sahu, N**. (2017). Urbanization Induced Air Pollution and its Impact: Cases of Delhi and Seoul. In *Forging a Multidimensional Partnership in the 21st Century*, Ed Sushila Narsimham and Kim Do Young (pp. 123-143). New Delhi: Manak Publication Pvt., ISBN: 9789378314438.

#### Conference Organization/ Presentations (in the last three years)

*List against each head (If applicable)*

- *Organization of a Conference*
- *Participation as Paper/Poster Presenter*
- Sahu, N., delivered a seminar talk on 'Impact of ENSO on Rice Yield in Bihar', JAMSTEC, Yokohama, Japan, on 24 March 2017.
- Sahu, N., delivered a lecture on 'Understanding Climate Change', at UGC-HDRC, Jamia Milia

Islamia, New Delhi on 21 March 2017.

- Sahu, N.,: Climate Change and Adaptability-A case study from Nako village of the Hangrang valley of Himachal Himalaya, Bi-Lateral Seminar on Kyoto University Initiative for Strengthening Collaboration between India and Japan, January 14, 2016,Kyoto University,Japan.
- Sahu N. ‘Disaster Reductions and Environmental Concerns of Delhi, The 65th GCOE-ARS Seminar, January 15, 2016,Kyoto University,Japan.
- Sahu, N., delivered a lecture on ‘Free data sources for Scientific research’, at Geo-Research Forum, Department of Geography, University of Delhi, 4<sup>th</sup> March 2013.
- **Sahu N.**, Robertson, A.W., Yamashiki, Y., DeWitt, D.G., Takara,K.,: Use of GCM for Probabilistic Seasonal Streamflow Forecast of the Citarum River Indonesia, "Third Symposium of Disaster Risk Management for Human Security Engineering in Asian Megacities"Organized by Kyoto University, 2 September 2012.
- **Sahu N.**,Behera, S.K.,Yamashiki, Y.,Takara, K. and Yamagata, T.: Impacts of ENSO on the Paranaiba River Basin,Brazil,Kyoto University Disaster Prevention Research Institute,**Annualmeeting**, February 2012.
- **Sahu N.**, Behera, S.K.,Yamashiki, Y.,Takara, K. and Yamagata, T.,: Impact of ENSO Modoki in Paranaiba Catchment,Brazil,Japan Geoscience Union Meeting,(**JpGU**), Venue : Makuhari Messe International Conference Hall (Nakase 2-1, Mihama-ku, Chiba City, 261-0023 Japan,2011. **Abstract published.**
- **Sahu N.**, Yamashiki Y., and Kaoru T.,: Indo-Pacific Climate Impacts on the River Discharges of the CitarumBasin,Indonesia,Japan Society of Civil Engineering (JSCE),13<sup>th</sup> International Symposium,25-26 August,Oral Presentation, **Awarded Best presenter**, 2011.
- **Sahu N.**, Yamashiki Y., and Kaoru T., : Impact of ENSO and ENSO Modoki on the Paranaiba River Discharges, **2011 Annual Meeting of Kansai Branch**, JSCE, June 12, 2011.
- **Sahu N.**, Behera S.K., Yamashiki, Y.,Takara, K. and Yamagata, T.: Impact of IOD/ENSO at a Catchment Scale poster presentation at the ‘India-Japan Symposium on Emerging Technologies’ at the Indian Embassy Auditorium, 2-2-11 Kudan-Minami, Chiyoda-ku, Tokyo,October,2010.
- **Sahu N.**, Behera, S.K.,Yamashiki, Y.,Takara, K. and Yamagata, T., :IOD/ENSO and River Discharges-A Case Study from Indonesia, **International Workshop on ‘Climate Science and Emerging Issues in Asia**, Center for Atmosphere Science, Indian Institute of Technology (IIT), Delhi, 2<sup>nd</sup> July,2010.
- **Sahu N.**, Behera, S.K.,Yamashiki, Y.,Takara, K. and Yamagata, T., : Influence of IOD and ENSO on the Discharge of Citarum River, Indonesia, **Asia Oceania Geosciences Society(AOGS)**, 7<sup>th</sup> Annual Meeting and Geosciences World Community Exhibition, Hyderabad International Convention Centre, India, 5-9 July, 2010.
- **Sahu N.**, Behera, S.K.,Yamashiki, Y.,Takara, K. and Yamagata, T,; An Observation on the Relationship between IOD/ENSO and River Discharges in the Citarum River Basin, Indonesia, **Japan Geoscience Union (JpGU)**, Venue : Makuhari Messe International Conference Hall (Nakase 2-1, Mihama-ku, Chiba City, 261-0023 Japan, May 23 - 28, 2010.
- **Sahu Netrananda**, : POSCO Deal: Controversies and Dilemmas-A Fresh Look- International Seminar organized by the **Researchers’ Association for the Study of Korea (RASK)** on “**Indo-Korea Relations in Resurgent Asia**” at the new conference hall, University of Delhi.on 20<sup>th</sup> and

<p>21<sup>st</sup> of February 2009.</p> <ul style="list-style-type: none"> <li>• <b>Sahu Netrananda</b>, : Impact of Climate Change on South Korea- International Conference, organized by University of Delhi and Researchers' Association for the Study of Korea, on 20-21, Feb. 2008.</li> </ul>
<p><b>Research Projects (Major Grants/Research Collaboration)</b></p> <ul style="list-style-type: none"> <li>• Stochastic analysis of rainfall variability in the Himachal Himalaya, R &amp; D Project, University of Delhi, 2015</li> <li>• Impact of Climate change on agriculture in the Chamba district of Himachal Pradesh, R &amp; D Project, 2016 (ongoing)</li> </ul>
<p><b>Awards and Distinctions</b></p> <ul style="list-style-type: none"> <li>• Selected for JSPS Post Doctoral Fellowship by Government of Japan 2018-19</li> <li>• <b>Japanese Government Scholarship (MEXT) from April 2009-Sept 2012.</b></li> <li>• I have been awarded as the <b>Best Presenter</b> in JSCE (Japan Society for Civil Engineers) International Symposium on 26 August,2011.</li> </ul>
<p><b>Association With Professional Bodies</b></p> <ol style="list-style-type: none"> <li>1. <i>Editing</i></li> <li>2. <i>Memberships</i> <ul style="list-style-type: none"> <li>• <b>Asia Oceania Geoscience Society (AOGS)</b></li> <li>• <b>Japan Geophysical Union (JpGU)</b></li> </ul> </li> </ol>