

## Curriculum vitae

### **Dr. Sanjit Maiti, PhD**

#### **Fulbright-Kalam Climate Fellow for Postdoctoral Research**

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#### **Scientist**

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### **Educational Qualification**

Degree	University
B.Sc. (Ag.) HONS	Visva Bharati, Shantiniketan, West Bengal, India
M. Sc	National Dairy Research Institute, Karnal, Haryana, India
PhD	National Dairy Research Institute, Karnal, Haryana, India

### **Details of Employment and Nature of Duties**

Sl. No.	Designation	From	To	Place of posting/Institute	Nature of Duties
1	Scientist (Probation)	21.04.2009	26.08.2009	ICAR-National Academy of Agricultural Research Management, Hyderabad, India	Training during probation
2	Scientist	27.08.2009	21.10.2013	ICAR-National Research Centre on Yak, Dirang-790101, Arunachal Pradesh, India	Research & Extension
3.	Scientist (Senior Scale)	22.10.2013	16.09.2015	ICAR-National Research Centre on Yak, Dirang-790101, Arunachal Pradesh, India	Research & Extension
3	Scientist (Senior scale)	17.09.2015	Present	ICAR-National Dairy Research Institute, Karnal-132001, Haryana, India	Research , Teaching & Extension

### **Course taught**

I am involved in teaching of Undergraduate and Post-graduate including PhD of the following three courses:

- Research methodology in social sciences (DX-621)
- Advanced research techniques in social research (DX-721)
- Programme Planning and Evaluation for Rural Development (DX-615)



One postgraduate students are also pursuing their research work under me and titles of their post graduate thesis work are as follows:

- i. Effectiveness of Climate Resilient Agricultural Technologies in Coastal Low Lying Region of Kerala (**Fatheen Abrar PN**)

### Services provided to students and home institutions

- i. Contributing as **Academic Coordinator** of the Dairy Extension Division
- ii. Contributing as the **member of Divisional Board of Studies**, Dairy Extension Division, ICAR-National Dairy Research Institute, Karnal
- iii. Contributing as a **member of the expert team constituted for the dairy development activities in the SMART GRAM initiative of the Hon'ble Rastrapati Bhawan of India**

### Current Research Area

-  Societal vulnerability due to impending climate change
-  Community participation for climate change adaptation

### Research Experience

#### A. Research Experience on Climate Change

##### *Completed Research Project*

- I. Vulnerability and adaptation strategies on climate change among livestock-rearers in coastal and alpine regions of India
- II. Assessment of climate-led vulnerability and resilience strategies of tribal dairy farmers
- III. Risk and vulnerability analysis of rural farm households in drought prone and coastal regions of India (**This project is funded by Indian Council of Social Science research**)
- IV. Livelihood vulnerability of livestock dependents in drought prone districts of Bihar
- V. Adaptation Strategies to Climate Change Followed by the farming community of the Indian Sunderban

##### *On-going Research Project*

- I. Livelihood vulnerability to climate change among the Changpa pastoral nomads of Leh-Ladakh (**This project is funded by Indian Council of Social Science research**)
- II. Effectiveness of Climate Resilient Agricultural Technologies in Coastal Low Lying Region of Kerala

#### B. **Other Research Experience**




##### *Completed Research Project*




- i. A socio-economic appraisal of yak rearing in Arunachal Pradesh
- ii. Sustainability of yak-based transhumance livelihood in Arunachal Pradesh

##### *Ongoing research project*

- i. Carrier dynamics of dairy graduates in India

### Product/Concept/Methodology Developed

-  An innovative psychometric scale construction technique has been developed and standardized.
-  Two psychometric scales meant for measuring awareness regarding climate change has been developed for coastal and alpine region.
-  Protocol for assessment of climate induced social vulnerability developed.

-  An exclusive socio-economic measurement scale for highlanders and pastoral nomads developed and standardised
-  Participatory validation assessment of ethno-veterinary practices
-  Protocol for participatory assessment of ethno veterinary practices developed.

## Publication

1. **Maiti S**, Jha S K, Garai S, Nag A, Bera AK, Paul V, Upadhaya RC and Deb SM. 2017. An assessment of social vulnerability to climate change among the districts of Arunachal Pradesh, India. *Ecological Indicators*. 77: 105-113. DOI 10.1007/s10584-015-1379-1 (**Impact factor 3.898**)
2. Garai, S., Garai, S., **Maiti**, S., Meena, B. S., Ghosh, M.K., Bhakat, C. and Dutta, T. K. 2017. Impact of extension interventions in improving livelihood of dairy farmers of Nadia district of West Bengal, India. *Trop Anim Health Prod*. 49: 641-648. doi:10.1007/s11250-017-1244-5 (**Impact factor 0.912**)
3. **Maiti S**, Jha S K, Garai S, Nag A, Chakravarty R, Kadian KS, Chandel BS, Datta K K and Upadhaya RC. 2015. Assessment of social vulnerability to climate change in the eastern coast of India. *Climatic Change*. 131: 287-306. DOI 10.1007/s10584-015-1379-1 (**Impact factor 3.496**)
4. **Maiti S**, Jha SK, Garai S, Nag A, Bera AK, Deb SM and Upadhayay RC. 2015. Social vulnerability of alpine transhumance pastoralists of western Arunachal Pradesh to climate change. *Range Management and Agroforestry*. 36 (1): 92-98. (**Impact factor 0.106**)
5. **Maiti S**, Jha SK, Garai S, Nag A, Bera AK, Bhattacharya D, Kale RB and Deb SM. 2015. Climate change awareness among the livestock rearers of east coast of India. *Indian Journal of Animal sciences*. 86(7):799-809. (**Impact factor 0.247**)
6. Goswami, R.K., Maiti, S., Garai, S., Jha, S.K., Bhakat, M., Chandel, B. S. and Kadian, K.S. (2018) Coping mechanisms adopted by the livestock dependents of drought prone districts of Bihar, India, *Indian Journal of Animal Sciences* 88 (3): 356–364. (**Impact factor 0.247**)
7. Garai S, Ghosh MK, **Maiti S**, Garai S, Meena BS, Dutta TK and Kadian KS. 2019. Development and application of dairy-based sustainable livelihood security index in the districts of West Bengal, India: A tool for dairy development planning. *Journal of Rural Studies*. <https://doi.org/10.1016/j.jrurstud.2019.01.017> (**Impact factor 2.65**)
8. Bam, J., Rai, S., Bhattacharya D., **Maiti**, S., Islam, S., Pathak, P., Bera, A. K. and Deb, S. M. 2015. Indigenous curative and prophylactic traditional practices used against haematophagous leeches in Arunachal Pradesh and Sikkim. *Indian Journal of Traditional Knowledge*. 14(3): 493-497. (**Impact factor 0.369**)
9. Bera, A. K., Hussain, M., Maji, C., **Maiti**, S., Doley, J., Bhattacharya, D., Bam, J., Deori, S., Paul, V., Biswas, T. K. and Deb, S. M. 2015. High seroprevalence of bovine herpesvirus-1 and *Brucella abortus* in yak populations of Arunachal Pradesh, India, correlates with abortion, *Indian Journal of Animal sciences*. 85(7): 751-754. (**Impact factor 0.247**)
10. Bera, A. K., Maji, C., Hussain, M., Bam, J., Bhattacharya, D., **Maiti**, S., Biswas, T. K. Deori, S. and Deb, S. M. 2015. A retrospective analysis on yak mortality with special emphasis on neonatal mortality, *Indian Journal of Animal sciences*. 85(5): 446-450. (**Impact factor 0.247**)
11. Jeeva, K., Chatterjee, N., Bera, A. K., **Maiti**, S., Ram, H., Banerjee, P. S., Goswami, T. K., Das, P. J., Chamua, J., Milton, A. A., Arvind, M., Bhanupriya, G., Thigavathi, K., Ghosh, S. K., Deb, S. M. and Bhattacharya, D. 2015. An initial molecular signature of Indian isolates of *Toxocara*. *Indian Journal of Animal Sciences*, 85(7): 709-713. (**Impact factor 0.247**)
12. **Maiti S**, Jha SK, Garai S, Nag A, Chakravarty R, Kadian KS, Chandel B S, Datta KK and Upadhaya RC. 2014. Adapting to climate change: Traditional coping mechanism followed by the

- Brokpa* pastoral nomads of Arunachal Pradesh, India, *Indian Journal of Traditional Knowledge*. 13(4):752-761. **(Impact factor 0.369)**
13. **Maiti S**, Jha S K, Garai S, Nag A, Chakravarty R, Kadian KS, Chandel BS, Datta K K and Upadhaya RC. 2014. Vulnerability to climate change among the livestock rearers of eastern coastal region of India: A household level assessment. *Indian Journal of Animal sciences*. **84(10):1048-1054. (Impact factor 0.247)**
  14. **Maiti S**, Jha SK, Garai S, Nag A, Chakravarty R, Kadian KS, Chandel BS, Datta KK and Upadhaya RC. 2014. Adaptation Strategies followed by the Livestock Rearers of Coastal Odisha and West Bengal to Cope up with Climate Change, *Indian Journal of Animal sciences*. **84(6): 652-659. (Impact factor 0.247)**
  15. Bora, L., Bam, J., Paul, V. and **Maiti, S.** 2014. Traditional milk, meat processing and preservation techniques of pastoralists of Arunachal Pradesh. *Indian Journal of Traditional Knowledge*. **13(1)21-221. (Impact factor 0.369)**
  16. **Maiti, S.**, Chakravarty, P., Garai, Sanchita, Bandyopadhyay, S. & Chouhan, V. S. 2013. Ethno-veterinary practices for Ephemeral fever of Yak: A participatory assessment by the *Monpa* tribe of Arunachal Pradesh. *Indian Journal of Traditional Knowledge*. **12(1):36-39. (Impact factor 0.369)**
  17. Bandyopadhyay, S., Lodh, C., Rahaman, H., Bhattacharya, D., Bera, A. K., Ahmed, F. A., Mahanti, A., Samanta, I., Mondal, D. K., Bandyopadhyay, S., Sarkar, S., Dutta, T. K., **Maiti, S.**, Paul, V., Ghosh, M. K., Sarkar, M. and Baruah, K. K. 2012. Characterization of shiga toxin producing (STEC) and enteropathogenic Escherichia coli (EPEC) in raw yak (*Poephagus grunniens*) milk and milk products, *Research in Veterinary Science*, **93(2):604-610**, ISSN 0034-5288, 10.1016/j.rvsc.2011.12.011. **(Impact factor 1.298)**
  18. Singh, J. P., Paul, V., **Maiti, S.**, Suheel, Ahmad, Deb, D., Chaurasia, R. S., and Soni, R. (2011). Sustainability of temperate/ alpine pastures vs landform and soil status: A case study of Sikkim using GIS and RS techniques, *Range Mgmt. & Agroforestry*, **32 (1): 19-24. (Impact factor 0.106)**
  19. Paul, V., **Maiti, S.**, Singh, J. P., Ghosh, M. K., Baruah, K.K. and Chaurasia, R.S. 2010. Geomatics based study of yak rearing tracts of north-eastern Himalayan grassland. *Range Management and Agroforestry*. **Symposium issue (A):107-109. (Impact factor 0.106)**

### Research Papers Presented in International Conference

1. **Maiti S**, Jha SK, Garai S, Paul V, Bera AK, Bhattacharya D and Deb SM. 2015. Change in migration and pasture utilization by *Brokpa* pastoral nomads: A sustainable adaptation strategy for climate sensitive Arunachal Pradesh! Presented and published in the proceedings of the XXIII International Grassland Congress held at New Delhi, India during November 20-24, 2015 organised by Range Management Society of India and ICAR-Indian Grassland and fodder Research Institute, Jhansi. India
2. **Maiti S**, Jha SK, Garai S, Bera AK and Biswas TK. 2014. Proliferation of hybridization practice between Yak and Cattle : A way forward for Yak herders of climate sensitive Arunachal Pradesh! Presented in the International Conference on “Environmental Biology and Ecological Modelling (ICEBEM – 2014)” during February 24 to 26, 2014 at Dept of Zoology (CAS), Siksha Bhavana (Institute of Science), Visva-Bharati Univ., Santiniketan-731235, West Bengal, India.
3. **Maiti S**, Jha SK, Garai S, Bera AK, Bhattacharya D, Upadhyay RC and Deb SM. 2014. Change in transhumance pastoralism among the *Brokpa* pastoral nomads: A natural mechanism to adapt climate change in western Arunachal Pradesh. Presented in the International on “Integrating Agriculture & Allied Research: Prioritizing Future Potentials for Secure Livelihoods (ISIAAR)” during November 6-9, 2014 at Centre for Human Resource Development, BCKV, Nadia, West Bengal, India organized by Crop and Weed Science Society and Bidhan Chandra Krishi Viswavidyalaya, Mohanpur-741252, West Bengal in collaboration with NABARD.

4. **Maiti S**, Jha SK, Garai S, Nag A, Bera AK, Paul V, Deb SM and Upadhyay RC. 2015. Climate induced vulnerability of livestock dependents: Perceptual differences among the alpine transhumance pastoralists and coastal livestock rearers of India. Presented in the Young Scientist category of XII Agricultural Science Congress on “Sustainable Livelihood Security for Smallholder Farmers” during February 3-6, 2015 at ICAR-National Dairy Research Institute, Karnal, Haryana organized by National Academy of Agricultural Sciences, New Delhi; ICAR-National Dairy Research Institute, Karnal; Indian Council of Agricultural Research.
5. **Maiti S**, Baruah KK, Garai S and Paul V. 2011. Sustainable Development of Yak husbandry and nomadic yak herdsman: Can geomatics based study change the reality? Presented and published in the compendium of 5<sup>th</sup> National Seminar on Multi-Sectoral Innovations for Rural Prosperity organized by Society for Community Mobilization for Sustainable Development in collaboration with NDRI, Karnal during 19-21 May 2011 at NDRI, Karnal. **This paper was awarded as second best oral presentation at the congress.**

### **Professional honors/awards and fellowship**

- i. Awarded prestigious ‘**JAWAHARLAL NEHRU AWARD**’ from Indian Council of Agricultural Research, New Delhi for outstanding doctoral thesis research in Social Science for the year 2014 by Indian Council of Agricultural Research on 24<sup>th</sup> July 2015
- ii. Received **Gold Medal award for outstanding PhD thesis research work** of the academic session 2012-13 in the field of Social Sciences and Management group from ICAR-National Dairy Research Institute, Karnal-132001, Haryana, India.
- iii. Received ‘**Merit Certificate**’ from ICAR-National Dairy Research Institute (Deemed University), Karnal, India for securing Highest OGPA in Agricultural Extension Education.
- iv. Received **best PhD thesis** award 2014 from Indian Association of Hill Farming, India during National seminar on “Sustaining Hill agriculture in Changing Climate” on December 5-7, 2015.
- v. **Stood first in Agricultural Research Service (ARS) Examination- 2007** in the discipline of Veterinary Extension Education conducted by Agricultural Scientist Recruitment Board (Indian Council of Agricultural Research)
- vi. Awarded “**Junior Research Fellowship**“ at National Dairy Research Institute, Karnal during two years of Master degree in Master of Science in Dairy Extension
- vii. Awarded “**Senior Research Fellowship**“ during doctoral programme at at National Dairy Research Institute, Karnal (Degree yet to complete because, I got physical examination from NDRI, Karnal to join **Agricultural Research Service(ARS)**)
- viii. Received **best poster presentation award** for the paper entitled “Prospect and opportunities of Horticulture and Agribusiness in the North-East Region (NER) of India” with co-author S.M. Feroze and Sanchita Garai during “X Agricultural Science Congress” held at National Bureau of Fish Genetic Resources, Lucknow, India during 10-12 February 2011.
- ix. Received second **best oral presentation award** for the paper entitled “Sustainable development of yak husbandry and nomadic yak herdsman: Can geomatics based study change the reality?” with co-author K.K. Baruah, Sanchita Garai, Vijay Paul during 5th National Seminar on „Multi-sectoral Innovations for Rural Prosperity“ organized by the Society for community mobilization for sustainable development in collaboration with National Dairy Research Institute and BBNL held at NDRI, Karnal, India during May 19-21, 2011.

### **Membership in professional associations**

1. Life member of the The Indian Science Congress Association, Kolkata
2. Life member of the Indian Society of Extension Education, New Delhi
3. Life member of the Society of Extension Education Agra
4. Life member of the Indian Association of Hill Farming, Shillong

