



Sandip Banerjee

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Objective:

Establishing myself in the field of education, research and dissipation of research findings amongst the community, to utilize my skills and experience in assisting students to achieve excellence in all aspects of their life.

Education

- PhD (Animal Science) awarded in 2004, from Bidhan Chandra Krishi Vishwavidyalaya, India.
- Master of Science (Agriculture) awarded in 1997, Govind Ballabh Pant University of Agriculture and Technology, India.
- Bachelors of Science Agriculture and Animal husbandry) awarded in 1994, Govind Ballabh Pant University of Agriculture and Technology, India .
- Qualified National Eligibility Test (NET) examination in Animal Breeding and Genetics, conducted by ICAR, India.
- Qualified in Agriculture Business and Agricultural Clinics course conducted by MANAGE, India.
- Qualified a Certificate Course on Wool Fiber Analysis Techniques from CSWRI (ICAR), India.
- Qualified a certificate course on "Agriculture in Transition, Analysis, design and management of sustainable farming systems" from Wageningen International, The Netherlands.
- Trained in dairy cattle management at Military Farms, Bareilly.

Employment

Designation : Assistant Professor (Animal Breeding and Genetics),

Duration: Nov 2008 till 15th July 2014

Designation: Associate Professor (Animal Breeding and Genetics)

duration 16th July 2014 till 10th December 2019

Designation: Professor and Dean, Faculty

of Agriculture Science and Technology duration: 16th December 2019 to 7th September 2021

Present designation:

Date of Joining: Professor, School of Smart Agriculture

Designation: Assoc Dean, 13th Sep 2021 till date

My roles and responsibilities(previous organisations).(academics)

- Liaisoning with Universities, research institutes and also with private entrepreneurs.
- Preparing course materials for Bachelors, Masters and PhD students
- Course allocation to Faculty members and monitoring of the teaching and learning process.
- Laboratory establishment
- Conducting examination for Diploma, Bachelors, Masters and PhD students enrolled in the Faculty.

- Staff recruitment and motivation.
- Preparing and delivering lectures on various courses pertaining to Animal Breeding and Livestock sciences for graduate, undergraduate and DVM students.
- Advising graduate students of Animal Breeding, Animal Production and Animal Nutrition disciplines and undergraduate students of Animal and Range Sciences for their academic matters and thesis as both major and co-adviser.
- Member of different committees of the School and Module pertaining to curriculum development, and academic planning for both graduate and undergraduate programs.
- Member of various committees and professional bodies as assigned by the School from time to time.
- Conducting research as both Principal investigator and Co investigator for various projects funded by the University or from other funding organizations.
- Conducting experiments and demonstrating student's functions of various laboratory equipment's needed for conducting experiments on Animal Breeding, Animal Nutrition, Poultry Sciences, Small Ruminants, Carcass and meat quality assessment, wool fiber related experiments.
- Compiling bibliographies for specialized topics for graduate students for their reading assignments.
- Assisting students (undergraduate and graduate) in statistical analysis of research data and laboratory analysis in his area of specialization.
- Coordinator of Sheep and Goat farm maintained by the School of Animal and Range Sciences.

My roles and responsibilities in the present organization

- Planning, development and execution of different projects for the development of the School
- Liaisoning with different stakeholders for the overall development of the School
- Creating synergy between different Schools for the overall development of the University
- Preparation of syllabus for the newly introduced courses and developing course materials for successful implementation of the same.
- Overall administration of the School and also motivating the prospective students who are willing to take admission for the program

Employer References:

Prof (Dr) Samit Ray
Chancellor, Adamas University

My roles and responsibilities in my previous organizations (Industry)

Biodiverse Farming Pvt Ltd (Kolkata): Director (Production)

Planning, management and monitoring of a composite farm comprising of livestock (sheep and goats), fowls, ducks (Khaki Campbell, Muscovy and native), Chinchilla rabbits, quails, turkeys etc. Management of agriculture and horticulture farm of the organization and its food processing unit. The farm is considered as a model farm by Govt. of West Bengal, India. Presently my job also includes the procurement of various agricultural and horticultural commodities for the production of various food and livestock feed items at the farm. The responsibilities also include interaction with the various distributors at different locations for the marketing of the finished food products and also livestock products. I also look into the labor management, basic financial accounting and development of production schedule at the farm end. Maintenance of stock statement of finished items and raw materials too was to be monitored at my end.

Manager (Business Development), Sikkim Binding Industries, Gangtok

Formulation of various project proposals involving community development/participation especially members of self-help groups and farmers club sponsored by NABARD, in connivance with NCUI, SRDD, NEDFi and other developmental agencies. Organic certification, contract farming, supply chain management of various agriculture and allied products. I was the team leader for the first **organic certification**

program in the state of Sikkim, besides the same I was also the project leader for the first contract-farming project in the state of Sikkim in association with TATA chemicals and PEPSICO Agriculture (India).

Asst Project Coordinator (Vocational Education), Sikkim Binding Industries

Implementation of vocational education programmes at all the forty Govt. Senior Secondary Schools in the state of Sikkim, liaison with the Govt. officials, Development of course curriculum for various agricultural and allied subjects.

Dairy Farm Manager (Express Dairy Co Ltd. Kolkata) and at Durga Agro Farms Ltd. (Gorakhpur)

- ✓ Management of dairy herd, comprising of crossbreds, Holstein Friesian, Jersey and Murrah buffaloes. Management of pregnant cattle, bulls, calves and heifers.
- ✓ Routine farm activities including monitoring of herd health.
- ✓ Artificial insemination, pregnancy diagnosis, feed formulation, processing of milk
- ✓ Welfare of farm staff and planning of various farm operations.

Milk Procurement officer (Dalmia Ind. Ltd.) Bharatpur

- ✓ In charge Dist Dholpur, establishment of village level milk collection centers and Dairy husbandry extension activities.

Research Experience

Thesis research

MSc (Agriculture) Animal Breeding thesis supervised by Prof. (Dr) A.K Banerjee, Professor, Animal Breeding, Dept of Animal Science Govind Ballabh Pant University of Agriculture and Technology, Pantnagar. “*Studies on some reproductive and production traits of HF x S crossbreds of Military dairy farms*” Statistical analysis and interpretation of data obtained from cattle reared at two Military Dairy Farms in North India.

Indian Council of Agriculture Research, Ad Hoc scheme: Senior research fellow “*Survey Evaluation of Garole Sheep Reared in Sunderban region of West Bengal*”. Dr S Pan and Dr A.K Sahoo of West Bengal University of Animal and Fishery Sciences.

PhD (Agriculture) Animal Science thesis supervised by Prof. (Dr) L Mandal, Professor, Dept

of Animal Science Bihdhan Chandra Krishi Vishwavidyalaya. “**Studies of some economic traits of Garole sheep of West Bengal**” .A frontline study of various economic traits of this uniquely adapted breed of West Bengal.

Post-Doctoral Research study conducted with Dr George H Davis Invermay Agressearch, New Zealand “Distribution of Garole sheep in West Bengal” This study was conducted to study the prevalence of Booroolagene in sheep reared in different parts of West Bengal, India. The results of which was published in FAO journal.

Number of Research publications: 166 (Ten Publications from FAO,

Rome Publications Book chapter:

1. “Probiotics and its role in dairy nutrition and management
In “**Principle and Practices of Dairy Farm Management**” Ed Jagdish Prasad Kalyani Publishers, New Delhi

1. **Quality and Marketing of Milk and Milk Products in Ethiopia**, Samson Ghilu, Zelalam Yilma, Sandip Banerjee, LAP Lambert Academic Publishing, 2012 <https://www.amazon.com/Qu>

List of publications can be viewed at: <https://hu-et.academia.edu/SandipBanerjee>

Area of Interest:

- In situ and ex situ conservation of breeds, Formulation of breeding strategies under captive breeding programmes.
- To formulate breeding models for genetic conservation of domestic livestock breeds in the developing world. Also I would like to conduct surveys in different parts of the globe, to document the different livestock breeds and also formulate schemes for their conservation. Studying of Soil, Plant and Animal relationship, the effect of various macro, micro mineral deficiencies on animal health and reproduction.

Professional Workshop attended and papers presented oral and poster -07

- International Workshop on Livestock keepers Conference/symposium attended rights and Animal Genetic resources presented a paper on “Livestock genetic resources of West Bengal and North East India.
- National symposium on redefining role of Indigenous Animal Genetic Resources in Rural Development, presented two papers oral, titled “Morphometrical measurements of duck breeds of West Bengal and New poultry breeds/strains in West Bengal and Sikkim.
- Poster- Some chicken breeds of West Bengal and Sikkim
- National Conference on Sustainable and Integrated Dairy Development in Eastern and North-eastern Region- Status and Strategies” NDRI, Eastern Region, presented paper titled “Indigenous Dairy Animals Upgradation and Management- a Historical Perspective
- 5th All Africa Conference on Animal Agriculture and 18th Annual Meeting of Ethiopian Society of Animal Production. October 25-28th, 2010. Presented paper on “Some serum biochemical and hematological parameters of Arsi Bale sheep naturally infected with *Facilolasp*”.
- 19th and 20th Ethiopian Society of Animal Production (ESAP) conference, Addis Ababa, 2011 and 2012, presented research papers in both the conferences.
Supervised, 85 MSc students supervised, 03 more students in various stages of research Advising 9 PhD students for their research, one student successfully defended his PhD thesis from NMBU (Norway)

Projects handled as Principal and Co-investigator

1. Studies on some serum biochemical, carcass and meat quality traits of Arsi-Bale sheep and goats reared in southern region of Ethiopia- **RESEARCH Directorate, Hawassa University**
2. Blood copper concentration in Boer, Arsi Bale and their crossbreds and its effect on some production and reproduction parameters, taking into account the level of Copper and some trace minerals in the soil, water, vegetation of Southern Ethiopia-
Funded by Ethiopia Sheep and Goat productivity improvement program under **USAID**, collaborating with **University of Langston, USA**
3. Growth and carcass parameters of Koeck Koeck fowls reared on different protein levels but isoenergetic feed. **NORAD, Norway**
4. The effect of dried *Moringa stenopetalala* leaf meal supplementation on intake on growth and carcass characteristics of Arsi Bale goat, **NORAD, Norway**
5. Effect of feeding different levels of *Moringa stenopetalala* leaf meal on growth performance, carcass traits and some serum biochemical parameters of Koekoek chickens, **NORAD, Norway**
6. Comparative studies of some wool quality parameters of Dorper, Arsi Bale and their crosses, **NORAD, Norway.**
7. Small-

holder farms livestock management practices and their implications on livestock water productivity in mixed crop-livestock systems in highlands of Blue Nile Basin, International Livestock Research Institute, Addis Ababa.

8. Quality and Marketing of Milk and Milk Products in Ethiopia, **FAO, ROME**
9. Seasonal variation and recycling of some heavy metals in livestock and agricultural crops in some villages on lake Hawassa catchment, **RESEARCH Directorate, Hawassa University**
10. Studies on effect of some genetic and non-genetic factors affecting some wool quality parameters of 11. Menz sheep reared in Debr-Berhan, Amhara Region, Ethiopia **ETHIOPIAN INSTITUTE FOR AGRICULTURE RESEARCH, ADDISABABA**
12. Assessment of crossbred (Boer X South Wollo) goats on some functional and type traits using structural indices methodology. **ETHIOPIAN INSTITUTE FOR AGRICULTURE RESEARCH, ADDISABABA**
13. Development and standardization of estrus synchronization protocol of Menz sheep reared in Debre Berhan research centre, Ethiopia. **ETHIOPIAN INSTITUTE FOR AGRICULTURE RESEARCH, ADDISABABA**
14. Antihelminthic properties of some medicinal plants of Ethiopia. **SCOTTISH AGRICULTURAL COLLEGE, UNIVERSITY OF EDINBURGH**
15. Studies on effect of climatic factors and lunar periodicity on sex ratio of calves born through natural mating and artificial insemination, **RESEARCH Directorate, Hawassa University**
16. Genetic and non-genetic factors affecting survivability, growth and reproductive performance of Boer and Central Highland goats and their crosses reared at Ataye farm, North Shoa, Ethiopia. **ETHIOPIAN INSTITUTE FOR AGRICULTURE RESEARCH, ADDISABABA**
17. Some Genetic and non-genetic factors influencing fertility of different sheep breeds in highland of North-Shewa, Ethiopia **ETHIOPIAN INSTITUTE FOR AGRICULTURE RESEARCH, ADDISABABA**

Courses being handled

Graduate courses Animal Breeding/Animal Production

1. Breeding value estimation as applied to Animal Breeding
2. Population and Quantitative Genetics
3. Molecular genetics as Applied to Animal Breeding.
4. Animal Breeding in the Tropics
5. Livestock production systems
6. Research Methods and Scientific paper writing (PhD curriculum)
7. Research Methods (MSc curriculum)
8. Advance Application of linear models in Animal Breeding
9. Applied Animal Breeding
10. Advances in Animal Breeding and Genetics
11. Dairy Cattle breeding
12. Immuno Technology
13. Animal Products Biotechnology (Meat)
14. Molecular Animal Breeding
15. Genomics
16. Value addition and Marketing of Livestock Products

Undergraduate

1. Principles of Animal Breeding
2. Principles of Animal Genetics
3. Working Animal Management
4. Poultry and Swine Production
5. Dairy Cattle Production
6. Introduction to Animal Sciences (Biosystems engineering, Agriculture extension, Rural development)
7. Principles of Animal Breeding and Genetics (DVM)

Courses for BSc Agriculture students in Indian Universities

1. Fundamentals of Genetics
2. Livestock and Poultry Production
3. Statistical Methods
4. Fundamentals of Agriculture Extension
5. Fundamentals of Plant Breeding
6. Geoinformatics and Nanotechnology for Precision Farming
7. Crop Improvement-1 (Cereals, Millets, Pulses and Oilseeds)
8. Fundamentals of Agronomy
9. Agriculture Heritage
10. Fundamentals of Soil Sciences
11. Fundamentals of Plant Breeding
12. Ecophysiology
13. Fundamentals of Entomology
14. Fundamentals of Plant Pathology

Software Proficiency

1. “R” 2. SPSS 3. Excel
2. Microsoft Word, Excel, Power Point

Reviewer for the following journals

1. International Journal for Livestock Production - Academic Journals
2. World Applied Science Journal:
3. Journal of Agriculture, Food Systems, and Community Development, USA
4. Livestock Research for Rural Development:
5. Tropical Animal Health and Production -

Springer U.K Member of Editorial Board:

1. <http://www.globalscienceresearchjournals.org/gjabg/editorial-board>
 2. <https://academicjournals.org/journal/IJLP/editors>
 3. <http://ijasrm.com/editorial-board/>
 4. <https://www.foodsystemsjournal.org/index.php/fsj/jafscdreviewers>
 5. <https://medwinpublishers.com/JEASc/editorial-board.php> Reviewer for Journals
1. Animal Biotechnology (Taylor and Francis)
 2. Tropical Animal Health and Production (Springer Nature)

Academic performance

SNo	Degree/Certificate	University/Board	Year	CGPA/Percentage
1	PhD	Bidhan Chandra Krishi Viswavidyalaya	2004	8.58/10.0(85.8%)
2	National Eligibility Test	Agricultural Recruit ment Board	1998	
3	MSc Agriculture	Govind Ballabh Pant University of Agriculture and Technology	1997	4.071/5.00(76.06%)
4	BSc Ag and AH	Govind Ballabh Pant University of Agriculture and Technology	1994	3.508/5.00(67.62%)
5	All India Senior School Certificate Examination	CBSE	1988	55.75%
6	All India Secondary School Examination	CBSE	1986	64.4%

Employment Experience:

SNo	Experience	Duration	Year and Months	Years and Months
1.	Teaching (Asst Professor/Associate Professor or /Professor), Mansarovar Global University Professor and Associate Dean, Adamas University, Kolkata, 13 th September 2021 till date	25 th November 2008 till 10 th December 2019 16 th December 2019 to 10 th September 2021 13 th September 2021 till date	15 year Eleven months	15 years, eleven months
2	Research	January 1995 till December 1995 (MSc) 1999-2003 (PhD) Post Doctoral 2008 till date (Asa Faculty member)	1 year 3 years 6 months 6 months 12 year 7 months	17 year 11 months
3	Extension (Industry)	Dalmia Industries Ltd, 30 th January 1996 to November 1996 Durga Agro Farms Ltd December 1996 to May 1997 Express Dairy Co. Ltd 01 June 1997 to 30 July 1998 Sikkim Binding Industries, 01 April 2004 till March 2007 Biodiverse Farming Pvt. Ltd. April 2007 till 20 th November 2008	10 months 6 months 1 year 1 month 3 years 1 year 7 months	7 years

Other Assignments:

1. Research Data analysis for Department of Biodiversity Government of Bhutan.
2. External examiner for PhD thesis from Bangladesh Agricultural University, Mymensingh.
3. External examiner for PhD thesis, Govind Ballabh Pant University of Agriculture and Technology

Webinars Organized (2020-2021)

1. Agriculture and Allied Science Education under COVID 19 pandemic Hosted by Mansarovar Global University
2. Why study Agriculture? - Hosted by Mansarovar Global University
3. Online international workshop on emerging techniques in agriculture and allied sciences use of artificial intelligence and sensor based technologies - Supported by Commonwealth Education Center for Asia (CEMCA)
4. Roadmap to Academic Success - Hosted by National Union of Ghanaian students,

- Chengdu Chapter, Peoples Republic of China.
5. A six weeks MOOC program is being initiated on “**Sensor based Technologies for Sustainable Practices in Agriculture and Allied Sciences**” supported by Commonwealth Education Center for Asia (CEMCA)
 6. Metaverse in 21st Century Agriculture Education (RKDF University, Bhopal)
 7. Development of Agriculture in India, Omsk state Agrarian University, Russia
 8. Leader for the Development of MOOC videos on “**Sensor based technologies in Agriculture and Allied Sciences**”, sponsored by CEMCA

University Industry linkages

Initiated varietal trails at the University Farm

- a. VNR Seeds Pvt. Ltd. Raipur Chhattisgarh- Maize, Tomato, Brinjals, bitter gourd, sponge gourd
- b. ADVANTA seeds (India)- Tomato, Sunflower, Maize

Internship program for BSc (Agriculture) and MSc Agronomy students

- a. Futurex Biosciences, Secunderabad
- b. Nuziveedu Seeds, Hyderabad
- c. Bandhan Agriculture Research Initiative
- d. V N R Nurseries (Pvt) Ltd.

Trainings and outreach

- a. Conducted trainings for bank officials of Odisha Gramya Bank, Jharkhand Gramin Bank, Paschim Bangya Gramin Bank in association with Bankers Institute of Rural Development (NABARD)
- b. Developing tailor made outreach program for Farmers Producer Companies/Organizations on Agriculture and Allied Sciences.

Patent filed/granted

- a. 202411008201-A **customized hybrid source derived protein based animal feed supplement formulation**

Miscellaneous:

1. Empanelled technical advisor to Food and Agriculture Organization (FAO) of the United Nations
2. Two breeds of Goats, one breed of sheep, six breeds of chickens, five breeds of ducks and one breed of camel have been documented by the candidate which have been recognized by FAO
3. h index and h10 index score
<https://scholar.google.com/citations?user=vxz7vA4AAAAJ&hl=en>

The above information's are true and to the best of my knowledge



Sandip Banerjee, PhD 10th October 2024

