

Individual Faculty Biodata

Dr Anju Sharma

Present Position: Assistant Professor
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1. Qualification & Specialization: Ph.D Statistics

Field of research : Statistical Modeling, Forecasting, Sampling, Applied Statistics

2. Experience in Teaching, Research and Extension: (10 years)

- Research Fellow and Research Associate in various State and ICAR funded adhoc research projects from 1992 to 1996 at UHF, Nauni-Solan.
- Project Associate in Mountain Women Development Centre, funded by ICIMOD, Nepal from 1996 to 1999 at UHF, Nauni, Solan.
- Technical Assistant in Bioinformatics Centre (Sub DIC) from 21-07-99 to 29-05-2000 Department of Biotechnology, UHF, Nauni, Solan.
- Information Officer in Bioinformatics Centre (Sub DIC) from 29-05-2000 to 08-09-2017, Department of Biotechnology, UHF, Nauni, Solan.
- Assistant Professor (Statistics), Department of Basic Sciences, on 08-09-2017 to till date.

3. Important Research Publications :

- Chand Ramesh and **Sharma Anju**.1994. Statewise trends in rural income, output growth and input in Indian agriculture. *Agricultural Economics Research Review*. 7(1):11-24.
- **Sharma Anju** and Sharma D D. 2001. Attitude of working women-a case study. *Indian Research Journal of Extension Education*. 1 (2): 54-61.
- **Sharma Anju**, Sharma D D and Bali R. 2002. Constraints and suggestions- A case study of working women of Solan city. *Indian Research Journal of Extension Education*. 2(1): 34-37.
- Sharma DD, **Sharma Anju** and Negi Y S.2002. Job satisfaction- A case study of working women of Solan city (HP). *Indian Research Journal of Extension Education*. 2 (1): 66-71.
- Dosanjh Navkiran, **Sharma Anju**, Bhardwaj S V, Randhawa Vinay, and Singh Harpreet. 2011. Insilco structure based drug designing of a potent inhibitor for human notch1 - A therapeutic target for *lymphoblastic leukemia*. *International Journal of Science and Nature*. 2(4) : 705-712.
- Sharma Neha, Bhardwaj Satya Vrat, **Sharma Anju**, Tomar Manica, Kaur Rajinder, Thakur Pritam Dass and Handa Anil. 2012. Comparative Genomic and Proteomic Phylogenetic Analysis of Indian Isolate of Partial Coat Protein Gene Sequence of Zucchini Yellow Mosaic Virus (ZYMV) Using Data Mining . *Journal of Proteomics and Bioinformatics*. 5(9): 196-203.
- **Sharma Anju**, Belwal O K, Sharma Satish K and Sharma Subhash 2014. Forecasting area and production of apple in Himachal Pradesh using ARIMA model. *International Journal of Farm Sciences*. 4(4): 212-224.
- **Sharma Anju**, Mahajan PK, Malhotra R, Belwal OK and Sharma Satish K. 2015. Statistical segregation of apple trees in relation to morphological characters using discriminant analysis. *International Journal of Farm Sciences*. 5(3): 151-158.
- **Sharma Anju**, Kumar Rakesh, Mankotia M S, Mahajan P K, Belwal O K and Sharma Satish K. 2015. Genetic divergence evaluation of apple germplasm by D² multivariate analysis. *Journal of Applied and Natural Science*. 7(2): 889-892.
- **Sharma Anju**, Mahajan P K, Belwal O K and Sharma Satish K 2016. Evaluation of variability parameters in apple trees – a statistical approach. *International Journal of Agricultural Science and Technology* 4(1):28-34.

- **Sharma Anju**, Mahajan P K, Belwal O K and Sharma Satish K 2017. Statistical investigation through stratified random sampling for apple production in Himachal Pradesh. *Journal of Applied and Natural Science* 9(3): 1718-1723.
- Verma Geeta, **Sharma Anju** and Mahajan PK 2018. Study on yield and some morphological characters for optimizing kinnow yield through multivariate statistical techniques. *International Journal of Farm Sciences* 8(2): 162-165.
- **Sharma Anju**, Mahajan P K, Belwal O K and Sharma Satish K 2018. Apple yield estimation on the basis of morphological characters- a statistical approach. *The Bioscan* 13(2):277-280.
- Verma Geeta, Mahajan PK and **Sharma Anju** 2018. Correlation and path analysis between yield and different morphological characters in Kinnow Mandarin (*C. Noballis* × *C. Deliciosa*). *Journal of Applied and Natural Science* 10(2): 759-764.
- **Sharma Anju**, Mahajan PK, Malhotra R, Belwal OK and Sharma Satish K. 2018. Application of Multivariate Techniques in Horticulture Research-a Case Study of Apple Crop. *International Journal of Bioresource and Stress Management* 9(5): 556-561
- **Sharma Anju**, Sharma Satish K, Rana Kiran and Verma Anil Kumar. 2019. Phylogenetic Analysis of 28S rRNA Gene of Indigenous *Xiphinema pachydermum*. *International Journal of Current Microbiology and Applied Sciences* 8(7):1960-68.
- **Sharma Anju**, Mahajan PK, Chandel Ashu, Gupta RK and Verma G. 2021. Appropriate statistical distributions for yield and important auxiliary characters in apple. *Journal of Indian Society of Agricultural Statistics*. 75(2) 93-103.
- Rattan A, Mahajan PK, Gupta RK, **Sharma A**, Bansal S, Devi S and Vinay TV. 2022. Stratification in ration estimators: a practical approach. *Current Journal of Applied Science and Technology*. 41(30): 22-29.
- **Sharma Anju**, Verma MR and Sharma SK. 2022. Modeling on apple production in Himachal Pradesh. *Journal of Indian Society of Agricultural Statistics*. 76(2): 59-65. **NAAS: 5.51/4.85**
- Sharma Poonam, Sharma Puja, Dhiman SR, Dogra RK, **Sharma Anju** and Rana Nepu. 2023. Variability and association studies among carnation mutants (*Dianthus caryophyllus* L.) in Northwestern Himalayas. *Genetic Resources and Crop Evolution*. <https://doi.org/10.1007/s10722-023-01546-3>
- Kumar R , Chandel A , Shankar SV, Chandel RS, Gupta RK , Thakur NS , Verma SC, Sharma S, **Sharma A**, Thakur V , Mishra N , Yadav AK, Chauhan VR , Jaswal R. 2023. Outcomes of natural farming in Shimla district of Himachal Pradesh: A case study. *Scientist*. 4(4): 316-331. <https://doi.org/10.5281/zenodo.7831105> , <https://www.thescientist.online/>
- Verma G, Gupta RK, Chandel A, **Sharma A**, Devi M and Ghabru A. 2023. Problem faced by apple growers in Seraj Valley of Himachal Pradesh. *The Pharma Innovation Journal*. 12(6):3241-3243.
- Devi S, Sharma P, Sharma N, Chauhan S, **Sharma A** and Thakur M. 2023. Microbial biofilms: beneficial and detrimental impacts. *Journal of Microbiology, Biotechnology, and Food Sciences*. 12(5) e5211 <https://orcid.org/0000-0002-3441-4610> .
- Pal J, Sharma SK and **Sharma A**. 2024. Disease suppression, growth promotion and colonization attributes of resident endophytic bacteria against white root rot (*Dematophora necatrix*, Hartig) of apple. *Antonie van Leeuwenhoek*, 117:15
- Rana Nepu, Sharma Puja, Dhiman SR, Kashyap Bharti, Dogra RK, Sharma Anju and Sharma Poonam. 2024. Genetic characterization of Tulip (*Tulipa hybrida* L.) genotypes under mid hills Himachal Pradesh. *Genetic Resources and Crop Evolution*. DOI: [10.21203/rs.3.rs-3043004/v1](https://doi.org/10.21203/rs.3.rs-3043004/v1)
- Thakur Neha , Kumar Nitesh, Kumar Sanjeev, **Sharma Anju**, Ahlawat Yogesh K, Malik Anurag and Ahmed Meraj. 2025. Ethnobiological survey on medicinal plants used by gaddi and gujjar tribes of riparian region of Beas River of Himachal Pradesh in North Western Himalayas, India. *Clinical Phytoscience*. (11)4 <https://doi.org/10.1186/s40816-024-00388-5>
- Kumar M, Thakur P, Kashyap B, **Sharma A**, Kumar P, Bhardwaj R, Kaushal N, and Shah AH and Sahu PK. 2025. The economics of Dahlia (*Dahlia variabilis* L.) cultivation in the low hill

- conditions of Himachal Pradesh. *AATCC Review* 13(01):204-211. DOI: <https://doi.org/10.21276/AATCCReview.2025.13.01.204>
- **Sharma Anju**, Chauhan Ridhi, Sharma SK, Devi Nisha, Thakur Vishal and Verma Sahil. 2025. Mushrooming livelihoods: A socio-economic analysis of Solan district's mushroom agripreneurs. *International Journal of Economic Plants* 12(3):-01-08. Doi: [HTTPS://DOI.ORG/10.23910/2/2025.6141a](https://doi.org/10.23910/2/2025.6141a)
 - **Sharma Anju**, Das Pankaj, Barman Samir, Sharma Satish K, Ahmed Bulbul and Adhikary Trina. 2025. A comparative study on the predictive ability of machine learning- and deep learning- based yield prediction model in horticulture: a case study of apple. *Applied fruit science* 67(191). <https://doi.org/10.1007/s10341-025-01403-w>
 - Verma Sahil, **Sharma Anju**, Gupta RK, Chandel Ashu, Sharma SK, Guleria Chandresh, Thakur Vishal and Chauhan Ridhi .2025. Statistical modeling for area and production of pomegranate in Himachal Pradesh. *AATCC Review Journal*. 313-319. DOI:<https://doi.org/10.21276/AATCCReview.2025.13.02.313>.
 - **Sharma Anju**, Sharma Satish K, Verma Sahil and Thakur Vishal. 2025. Modeling of Pomegranate Cultivation and Production Trends in Himachal Pradesh. *Applied Fruit Science*. 67:253. <https://doi.org/10.1007/s10341-025-01483-8> **NAAS: 7.3**
 - Akanksha, Sharma SK, Gupta BK, Rana N, **Sharma A**, and Verma P. 2025. Biocontrol potential of Trichoderma-derived chitinase: optimization, purification, and antifungal activity against soilborne pathogens of apple. *Front. Fungal Biol.* 6:1618728. doi: 10.3389/ffunb.2025.1618728.
 - Mukesh, Khosla Kishore, Sharma Satish K and **Sharma Anju**, and Sharma Abhishek. 2025. Fungal decline in pomegranate orchards: exploring the role of organic amendments in reducing pathogen impact. *Journal of Plant Diseases and Protection*. 132:151 <https://doi.org/10.1007/s41348-025-01142-w>.
 - Sharma Varnika, Chandel Ashu, Gupta R.K., **Sharma Anju**, Gupta Vijit, Mishra Neha, Sharma Priyank, Thakur Vishani, Kaur Sukhdeep. 2025. Statistical Insights into Almond and Walnut Cultivation Trends in Himachal Pradesh. *Applied Fruit Science*. 67:344 <https://doi.org/10.1007/s10341-025-01592-4>.
 - Khan Saif Ali, Sharma Dinesh K, Shukla Alok Kumar, Verma Med Ram, **Sharma Anju**, and Yadav Subhash Kumar. 2025. Traditional and Machine Learning Models for Forecasting Apple Production and Cultivation Area. *Applied Fruit Science*. 67:402 <https://doi.org/10.1007/s10341-025-01639-6>.
 - Sharma Varnika, Chandel Ashu, Gupta R.K., Sharma Subhash, **Sharma Anju**, Verma Geeta, Kumar Rakesh, Gupta Vijit, Thakur Vishal, Verma Ujjwal and Thakur Ritik. 2025. Tracking the turning point: an econometric lens on oilseed growth, decomposition and instability in India. *AATCC Review Journal*. 854-859
 - Shah, Ali Haidar, Thakur Priyanka, Kaushal, Nitesh, Kumar, Prabhat, Dhiman, Sita Ram, Dilta, Balbir Singh, Kasshyap Bharti, Kumar Rakesh, **Sharma, Anju**, Kumar, Pardeep, Pandey, R.K., Sharma, Puja, Saklani, Sukrit, Adhikaro, Yogendra Singh and Kumar, Manish. 2026. Optimizing off season Chrysanthemum production: Influence of covering materials on growth and flowering performance in low hills of Himachal Pradesh. *BMC Plant Biology*. 26:308. <https://doi.org/10.1186/s12870-025-07876-x>
 - Shah Ali Haidar, Thakur Priyanka, Kumar Pardeep, **Sharma Anju**, Pandey R K, Kumar Rakesh, Kaushal Nitesh, Padi Mahesh. 2026. Comparative analysis of profitability among different cultivars of Chrysanthemum flowers using HDPE and Tarpulin as covering materials. *Plant Science Today*. 13(sp1)1:8. <https://doi.org/10.14719/pst.8979>
 - Pangtu Shabnam, Sharma Puja, Dhiman Sita Ram, Dhiman Mast Ram, **Sharma Anju**, Kamal Shilpa and Sharma Poonam.2026. Influence of organic growing medium supplemented with jeevamrit on physiological and biochemical responses of ornamental kale under subtropical conditions. *BMC Plant Biology*. 26:708. <https://doi.org/10.1186/s12870-026-08526-6>.

- Verma Ankush, Verma Tarun, Thakur M.K., Chauhan Shreya, Kumar Pravin and **Sharma Anju**. 2026. Influence of Altitude and Aspect on Floristic Composition of Temperate Forests in the North Western Himalayas. *Journal of Sustainable Forestry* ISSN: 1054-9811 (Print) 1540-756X. www.tandfonline.com/journals/wjsf20 DOI: 10.1080/10549811.2026.2668518.

Books

- **Sharma Anju** and Bhardwaj S. V. 2006. Introduction to Computer Basics. Pub BTIS Sub-DIC Dr YS Parmar University of Horticulture & Forestry, Nauni- Solan H. P. India. 250 p.
- **Sharma Anju** and Mahajan PK. 2022. A Textbook of Mathematics. Pub: Department of Basic Sciences, Dr YS Parmar University of Horticulture & Forestry, Nauni- Solan H. P. India. 250 p.
- Singh Tirath Raj, **Sharma Anju**, Shukla R and Bhardwaj SV. 2023. Easy way of doing bioinformatics – A tool for biological data analysis. Volume I. Publishers: Indu Book Services Pvt Ltd. 279pp
- Singh Tirath Raj, **Sharma Anju**, Shukla R and Bhardwaj SV. 2023. Easy way of doing bioinformatics – A tool for biological data analysis. Volume II. Publishers: Indu Book Services Pvt Ltd. 250pp

4. Externally Funded Research Projects as Principal Investigator and Co-PI (Bullet Form)

Sr. No.	Title of the project	Name of the funding agency	Duration	Amount (Rs lakh)
1.	Establishment of SubDICs under BTIS programme (Information Officer)	DBT, New Delhi	1998-2020	172.00
2.	Status of wild edible temperate fruits of Himachal Pradesh (Principal Investigator)	Institute of Himalayan Studies, UGC Centre of Excellence H.P. University, Shimla	2006-2007	0.35
3.	Determination of seasonal chilling requirement for endodormancy release in apple (<i>Malus X Domestica Borkh.</i>) (Co- Principal Investigator)	University research and development fund		7.50 lakhs

5. Variety/Technology/ Patents etc Developed :

Patent published

1. Shah AH, Thakur P, Kumar P, Sharma A, Pandey RK, Kaushal N, and Gill K. 2024. Method for optimizing off-season flower production in chrysanthemum (*Dendranthema x grandiflora* Tzhelev) cultivars under low hill climatic conditions. Application No. 202411090424 A. Publication Date: 06-12-2024

6. Academic Awards/ Medals/ Fellowships:

- Received best poster award for “Sharma Anju and Mahajan PK. 2019. Probability distributions for optimization of apple yield in Himachal Pradesh. Paper presented in 2nd International Conference on ‘Recent advances in agricultural, environmental and applied sciences for global development’, organized by Agro environmental development society, Majhra Ghat, Rampur, UP and Dr YSPUHF at Dr Y S Parmar University of Horticulture and Forestry, Nauni, Solan, HP”

- Provided technical expertise as a Statistician to NABCONS , New Delhi for the research study by Ministry of Food Processing Industries, GOI, entitled, “Study to determine postharvest losses of agri produce in India”. Report has been published and is available online. https://www.mofpi.gov.in/sites/default/files/phl_study_final_report_07.12.2022_2.pdf

7. **International Exposure:** Nil