**Brief Bio-data**

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| **Name:** Dr. Arti Sharma | **Date of Birth:** 20.10.1977 |
| **Nationality**: Indian  | **Designation :** Associate Professor |
| **Discipline:** Fruit Science  | **Work Experience:** 16 Years  |
| **Qualification:** Ph. D | **E-mail:** drartisharma02@gmail.com |
| **Sex:** Female  | **Marital Status:** Married  |
| **Phone No**: +91 94197 96724 | **Permanent Address:** Green Park, Officers Enclave, Poonch lines, Udheywalla , Jammu, J & K - 180018 |
| **Official Address**: Division of Fruit Science, Faculty of Horticulture & Forestry, Sher-e-Kashmir University of Agricultural Sciences and Technology of Jammu. Main campus chatha,-180009. |

**Educational Qualifications (Starting from Graduation onwards)**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S No** | **Degree** | **University** | **Year** | **Subjects** | **%age** |
| 1 | **B. Sc. (Hons.) Agriculture** | CCS, HAU, Hisar | 2000 | Agriculture and all allied subjects | 83.08 % |
| 2 | **M. Sc. Horticulture**  | CCS, HAU, Hisar | 2002 | Horticulture , plant physiology and statistics | 84.80 % |
| 3 | **Ph. D. Horticulture** | CCS, HAU, Hisar | 2006 | Horticulture , plant physiology and statistics | 83.60 % |
| 4 | **NET**  | ASRB | 2004 | Fruit Science | Qualified |
| 5 | **Title of M.Sc. thesis** | Studies on preservation of products of sour lime ( *Citrus aurantifolia* Swingle) |
| 6 | **Title of Ph.D. thesis**  | Identification of biochemical parameter(s) governing ripening and shelf life of guava (*Psidium guajava* L.) |

 **Life Membership of Professional Societies:**

|  |  |
| --- | --- |
| 1. The Horticultural Society of India
2. The Horticultural Society of Haryana
3. Indian society of Arid Horticulture
4. Society for Integrated Development of Agriculture, Veterinary and Ecological Sciences
 | 1. International journal of Agriculture and Allied Sciences
2. Mahima Research Foundation and Social Welfare
3. Society for community mobilization for sustainable development
4. Society for Community Mobilization for Sustainable Development
 |
| Member of Editorial board of International journal of Agriculture and Allied Sciences (ISSN-2582-6336) *(http://www.agriallied.com)* |

**Details of professional training and research experience, specifying period**

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| --- | --- | --- | --- | --- |
| **S. no.** | **Title** | **Organizer** | **Year** | **Duration** |
|  | Underutilized Plant Species: Future smart crops for food, Nutritional security and income generation | Division of vegetable science AICRP (VC) & IDP-NAHEP SKUAST-Kashmir | 2020 | 10 days |
|  | Non conventional Approaches for Genetic Improvement of Perennial Horticultural Crops | Division of Fruits and Horticultural Technology, ICAR-Indian Agricultural Research Institute, New Delhi  | 2020 | 21days |
|  | Advances in climate resilient Soil management for sustainable hill Agriculture | SKUAST-J and Agricultural Education Division, Indian council of Agricultural Research | 2017 | 10 days |
|  | Novel approaches in technologies for processing and value addition of Agricultural produce | ICAR-CIPHET, Ludhiana | 2015 | 21 days |
|  | Hi-Tech interventions in fruit production for enhancing productivity, nutritional quality and value addition. | Central Institute of Arid Horticulture, Bikaner. | 2014 | 21 days |
|  | National Training Programme on "Basic Molecular Techniques Applicable for Agriculture Research" at School of Biotechnology” | SKUAST-J | 2014 | 07 days |
|  | Photosynthetic Efficiency and Crop Productivity under Climate Change Scenario | Division of Plant Physiology, Indian Agricultural Research Institute, New Delhi 110012 | 2009 | 21 days |
|  | Computer Concepts and Applications | CCS Haryana Agricultural University , Hisar | 2002 | 28 days |
|  | Biofertilizers production Technology and Application | CCS Haryana Agricultural University , Hisar | 2002 | 10 days |
|  | Fruit and vegetable preservation | CCS Haryana Agricultural University , Hisar | 2002 | 5 days |

**RESEARCH PROJECTS HANDLED: As PI: 8 As Co PI: 9**

**Externally funded projects as PI: 4**

* Promotion of Horticulture (Establishment of demonstration blocks and production of elite planting material of dragon fruit) under Holistic Agriculture Development Project on "Development of Rain-fed Areas of J&K (UT)" in SKUAST-Jammu” under Holistic Agriculture Development Project
* "Promotion of niche crops(Pecan nut) in the UT of J & K" in SKUAST-Jammu” under Holistic Agriculture Development Project
* Establishment of rootstock and budwood bank at SKUAST-J and their large scale production under MIDH, ICAR funded project.
* Production of quality planting material for sub-tropical fruits under ICAR-HTM (MM-1) funded project.

**Externally funded projects as Co PI: 4**

* Production and popularization of quality planting material of improved cultivars of Pecan nut to enhance the nut crop status in Pir–Panjal range of Jammu division under NABARD funded project.
* Establishment of Rootstock and Budwood bank and its large scale production under ICAR-HTM (MM-1) funded project.
* Establishment of Mother Plant Nurseries for high pedigree planting material for fruit crops (Citrus and Guava) Exploitation of natural variability of walnut for export related traits under NHB funded project.
* Seed production in Agricultural crops and fisheries ICAR funded Mega Seed Project.

**University funded projects as PI: 4**

* Multiplication of Pecan nut variety SKJPP25/ Jammu Pecan nut 25.
* Multi locational trials of pecan nut (*Carya illinoensis*) genotypes selected by SKUAST-J.
* Studies on growth, yield and quality of guava (*Psidium guajava* L) cv. Sardar as influenced by different spacing under high density planting system.
* Crop regulation studies in guava

**University funded projects as Co PI: 5**

* Exploitation of pecan nut for development of blended value added products
* Strengthening of Multiple water use model.
* Establishment of Fruit plant nursery at FoA, Chatha for production of Quality planting material.
* Introduction and evaluation of Mango hybrids under Jammu sub tropics.
* Effect of different growth regulators on rooting of Litchi (*Litchi chinensis* Sonn)

**ACADEMIC PROJECTS:**

* Coordinator/ Manager of Experiential Learning unit on “Setting up of Facilities for Hands on Training on Hi-tech nursery for horticultural crops”

**AWARDS**

* Received **Best oral presentation award** in two days International Conference on Advances in Agriculture under Changing Climate Scenario for Sustainable Global development (AAUCSGD-2019) w.e.f. 16-17 November-2019 organized jointly by R. S. Krishi Shodh Evam Prashikshan Sansthan, IISR-ICAR, Lucknow University of Allahabad and Susanskriti, Prayagraj, India atD. D. Pant Auditorium, Department of Botany, University of Allahabad, Prayagraj
* Received **Eminent Scientist Award** by R. S. Krishi Shodh Evam Prashikshan Sansthan, University of Allahabad, Prayagraj in 2019
* Received **Mahima Young Scientist Award** by Mahima research foundation and social welfare w.e.f 17-18 November 2018 at BHU, Varanasi
* Received **Best Poster Award** in National Seminar on “Smart technologies to boost Farm Profitability and Socio –Economic status of Rural India” organized by Royal Association for Science- Led Socio –Cultural Advancement ( RASSA)
* **Best poster presentation award** in National Seminar on Technology and Management of Micro Irrigation in Floriculture March 19-20, 2015

**List of publications**

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| --- | --- |
| ***Research Papers:38*** | ***Review papers: 03*** |
| ***Books: 01*** | ***Book chapters: 06*** |
| ***Popular articles: 8*** | ***Technical Bulletin: 01*** |
| ***Pamphlets: 10*** | ***Abstracts:62*** |
| ***Compendium chapters:17*** | ***Manuals: 2*** |

**15 BEST RESEARCH PAPERS:**

1. Rani, S., Sharma, A., **Kour, K** . and Sharma, M. 2022. Assessment and exploitation of genetic divergence in pecan nut. *Indian Journal of Horticulture* **79**(3):266-272.
2. Kour , S., **Sharma , A.**, Samanta , A. , Jasrotia , A. , Bhat , D. J. , Kumari , S. 2022 Impact Of Partial Root Zone Drying, Regulated Deficit Irrigation And Fertigation On Growth And Quality Mango (*Mangifera indica* L.) cv. Dashehari Under Rainfed Conditions . *Agricultural Mechanization in Asia, Africa and Latin America* **53(05):** 7825-7838
3. Kour , Simrandeep, **Sharma , Arti**, Samanta , Abhijit, Jasrotia , Amit, Bhat , Bhat , Deep Ji, Sinha , B. K. , Jamwal , Mahital and Kumari , Shilpy 2022. Effect of different regimes of deficit irrigation and drip fertigation on quality and economics of mango (*Mangifera indica* L.) cv. dashehari under rainfed conditions. *The Pharma Innovation Journal* **11(6):** 104-114
4. Kour , S., **Sharma , A.**, Samanta , A. , Jasrotia , A. , Bhat , D. J. , Sinha , B. K. , Jamwal , Mahital and Kumari , S. 2022 Effect of different Irrigation Regimes and Fertigation on Biochemical Properties of Mango (*Mangifera indica* L.) cv. Dashehari *Indian Journal of Ecology*  **49(3):** 768-773
5. Rani, Sohnika, **Sharma , Arti**, Sharma , Manish and Sharma , Manmohan 2022 Selection of seedling pecan [*Carya illinoensis* (Wang) K. Koch.] trees for better nut and kernel quality characters. *The Pharma Innovation Journal* **11(6):** 1464-1467
6. Das , Susmita and **Sharma , Arti** 2022 Effect of potting media sterilization on plant growth of Carrizo (*Citrus sinensis* Osb. X *Poncirus trifoliate* L. Raf.) and rough lemon (*Citrus jambhiri* Lush.) nursery stock .*The Pharma Innovation Journal* **11(6):** 1609-1612
7. S. Rani , **A. Sharma** , A. Sharma , K. Kour , M. K. Sharma , M. Sharma , S. Gorka 2022 Studies on variability in Seedling Tree Population of Pecan nut [*Carya illinoensis* (Wang) K Koch.] for nut and kernel characteristics in Jammu and Kashmir. *Agricultural Mechanization in Asia, Africa and Latin America* **53(06):** 8173-8178
8. Gupta , Neeraj, Bandral , Julie D, Sood , Monika , Dutta , Upma , **Sharma , Arti** , Trilokia , Meenakshi , Hameed , Fozia and Nayyar , Puja 2022 Influence of sugar concentration on quality characteristics of Bael jam during storage. *Agricultural Mechanization in Asia, Africa and Latin America* **53(04):** 7419-7428
9. Devi , J., Bhat , D. J., Jasrotia , A., Sharma, V., Sharma , A. and Chand , G. 2022. Soil and Leaf Macro-Nutrients status in Mango (*Mangifera indica* L.) cv. Dashehari orchards under Samba districts of Jammu region *Agricultural Mechanization in Asia, Africa and Latin America* **53(09):** 9599-9611
10. Darpreet Kour, **Arti Sharma**, V. K. Wali and Ambika Bhandari.2020. Effect of regulated irrigation and calcium sprays on fruit yield, quality of Dehradun litchi. *Indian Journal of Horticulture* **77**(1), June, 2020. pp. 196-199
11. Nishta Kumari, **Arti Sharma** and Nirmal Sharma 2020 Response of hardwood cuttings of Brown Turkey fig to planting time and auxin concentration . *Indian J. Hort. 77(4): 603-609*
12. Sohnika Rani, **Arti Sharma**, V.K. Wali, Kiran Kour, Manish Sharma and Manmohan Sharma 2017 Evaluation of genetic diversity of pecan nut [*Carya illinoensis* (Wang) K. Koch.] in Jammu region *Indian J. Hort. 74(4), December 2017: 601-603*
13. Rafiq Ahmad Shah, **Arti Sharma**, V K Wali, Parshant Bakshi, Rakesh Kumar and Rucku Gupta 2017 Response of budding methods and time on bud success and budding growth of peach (*Prunus persica*) on different rootstocks *Indian Journal of Agricultural Sciences* 87 (5): 669–76, May 2017
14. **Arti Sharma**, R K Sharma, Saleem Siddiqui and T K Hazarika 2017 Physiological changes and hydrolyzing enzyme activities during ripening of guava (*Psidium guajava*) fruits on-tree and in-storage. *Indian Journal of Agricultural Sciences* 87 (12): 1706–13, December 2017
15. Darpreet Kour, **Arti Sharma**, V.K Wali, Parshant Bakshi and Ambika Bandhari 2016 Effect of Regulated Irrigation at Delayed Intervals and Calcium Sprays on Yield and Quality of Litchi (*Litchi chinensis* Sonn.) Cv. Dehradun *Indian Journal of Ecology* **43** *(Special Issue-2): 719-723*

**Book Chapters:**

1. **Arti Sharma** and Neeraj Gupta 2020. Importance of fruits and vegetables in human nutrition (In) Three major dimensions of Life: Environment, Agriculture and Health .Hemlata Pant, A. R. Siddiqui, Neetu Mishra, Manoj Kumar Singh, Jyoti Verma, Sandeep Kushwaha, Shishu Pal Singh, Piyush Raman Pandey (eds). Society of Biological Sciences and Rural Development, Allahabad( Prayagraj):pp.187-192
2. Neeraj Gupta and **Arti Sharma** 2020. Value added products from Karonda Fruit (In) Three major dimensions of Life: Environment, Agriculture and Health .Hemlata Pant, A. R. Siddiqui, Neetu Mishra, Manoj Kumar Singh, Jyoti Verma, Sandeep Kushwaha, Shishu Pal Singh, Piyush Raman Pandey (eds). Society of Biological Sciences and Rural Development, Allahabad( Prayagraj):pp.208-213
3. **Arti Sharma** and Bindiya Sharma 2019. Nutrition (In) R. M. Sharma, R. Yamdagni, A. K. Dubey, V. Pandey (ed) The strawberries: production, postharvest management and protection . Taylor & Francis Group, LLC, Delaware, USA .pp.209-227
4. Sohnika Rani and **Arti Sharma** 2018. Pecan Nut (In) Peter, K V (ed) Horticultural crops of high nutra-pharmaceutical values.Brillion Publishing New Delhi.p.271-285
5. **Arti Sharma**, V. K. Wali and Simrandeep 2017. Almond **In** Fruit Science culture and Technology. Temperate Fruits vol. 4 edited by J. S. Bal, New India publishing agency pp: 175-202.
6. **Pandey,S. N. and Arti Sharma** (2010). Fruit Development. In: *The Pear: Production,**Post-harvest management & Protection*. R.M.Sharma; S.N.Pandey and V. Pandey (eds.). IBDC Publishing Co., Lucknow, (U.P). pp. 381-395.

**National /international Conferences/symposia attended = 11**

**Conferences /training/seminar etc. organized**

* Co-Organizing Secretary for two days Zonal Convention on “Natural Farming: A National Priority for Human Health and Ecological Restoration” Organized by: Vidyarthi Ceva Educational Trust Jammu, J&K in collaboration with Sher-e-Kashmir University of Agricultural Sciences & Technology of Jammu (SKUAST-Jammu) from 05-06 April, 2022

**ACADEMICS CONTRIBUTION**

1. M.Sc. thesis completed under my supervision as Major Advisor= 07

1. M.Sc. thesis completed under my supervision as Co-Advisor = 11

3. Ph. D thesis completed under my supervision as Major Advisor =03

4. Ph.D thesis completed under my supervision as Co-Advisor =01

**Most significant achievement:** PRINCIPLE BREEDER OF NEW PROMISING PECANNUT VARIETY SKJPP 25/ JAMMU PECANNUT(ACCESSION NO: AKMU-7010 IC : 642157 to 642157) RELEASED BY SKUAST –JAMMU IN YEAR 2021 BY STATE SEED SUBCOMMITTEE UT OF J&K AND FINALLY APPROVED AND NOTIFIED BY CENTRAL SEED COMMITTEE IN YEAR 2022 AND HAS BEEN PUBLISHED IN THE GAZETTE OF INDIA PART II—SECTION 3—SUB-SECTION (II) NEW DELHI, WEDNESDAY, 4806 GI/2022 DATED : JULY 20, 2022 VIDE NO. CG-DL-E-20072022-237399 (REGD. NO. D. L.-33004/99)

**Place:** Jammu

 **Date:** 20/07/2023