

**BIO-DATA OF DR. AKASH SHARMA**  
**ASSOCIATE PROFESSOR, (Fruit Science) HORTICULTURE,**

<b>Name</b>	<b>DR. AKASH SHARMA</b> (PhD. Fruit Science)
<b>D.O.B</b>	25 <sup>th</sup> August, 1979
<b>Field of Specialization</b>	Resilient Rootstock production, High Density plantation & Rejuvenation of fruit crops, Natural & Organic Farming of fruit crops, Protected cultivation of fruit crops, Smart farming in fruit crops.
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<b>Father/Mother Name</b>	Sh. J. L Sharma/Smt. Manju Sharma
<b>Spouse Name</b>	Dr. Poonam Sharma (PhD Zoology)
<b>Job Experience</b>	15 years (Teaching, Research, Extension & Consultancy)
<b>Official Address</b>	Sher-e-Kashmir University of Agricultural Sciences & Technology of Jammu, Main Campus, Chatha-Jammu-180018
<b>Correspondence address</b>	House No. 4, Block-C, Bharat Nagar, Rehari Colony, Jammu, JKUT-180005, India.
<b>Job Profile</b>	<ol style="list-style-type: none"> <li>(1) Assistant Professor in the Division of Fruit Science from 8<sup>th</sup> July, 2008 to 4<sup>th</sup> August, 2015.</li> <li>(2) Junior Scientist at Advanced Centre for Horticulture Research, SKUAST-J, Udheywalla, Jammu from 5<sup>th</sup> August, 2015 to 7<sup>th</sup> July, 2020.</li> <li>(3) Associate Professor/Senior Scientist at Advanced Centre for Horticulture Research, SKUAST-J, Udheywalla, Jammu from 8<sup>th</sup> July, 2020 to till date.</li> <li>(4) Additional Charge as Incharge, Horticulture Block at Organic Farming Research Centre at Research Farm, Chatha</li> <li>(5) Additional charge of teaching &amp; guiding of UG and PG students in the Division of Fruit Science, SKUAST-Jammu to till date.</li> </ol>

**RESEARCH**

<b>External projects handled</b>	<ul style="list-style-type: none"> <li>➤ High Density orcharding of mango and guava in Jammu sub-tropics 2011-2014, (PI).</li> <li>➤ High Density orcharding of mango and guava in Jammu sub-tropics 2015-201, (PI)</li> <li>➤ Future prospect of rooftop farming for container grown fruits in Jammu region (PI).</li> <li>➤ Establishment of mother plant nurseries for high pedigree planting material for fruit crops (Co-PI)</li> <li>➤ Centre of Excellence in Horticulture (Fruits), SKUAST-J, Udheywalla-Jammu(Co-PI).</li> <li>➤ NAHEP-IDP “Strengthening Institutional capacities for delivering globally competent skilled professionals” (Associated Member)</li> <li>➤ Trainings and demonstration of old/unproductive orchards in Jammu Sub-tropics (Co-PI)</li> <li>➤ Establishment of Integrated Beekeeping development Centre in Jammu Region of Jammu and Kashmir, India (Co-PI)</li> <li>➤ Field promotion of microbial consortium for sustainable soil and crop health in vegetable (Co-PI).</li> <li>➤ Dissemination of plant protection technologies for organic vegetable production (Co-PI).</li> </ul>
<b>Divisional/ Departmental projects</b>	<ul style="list-style-type: none"> <li>➤ “Survey, selection and maintenance of some cultivars of mango” as P.I</li> <li>➤ Effect of Plant Growth Regulators on rooting of litchi (<i>Litchi chinensis</i> Sonn.) air layers as P.I</li> <li>➤ Studies on High density guava orchard established under organic management system (as PI).</li> <li>➤ Studies on High density mango orchard established under organic management system (as PI).</li> <li>➤ Studies on High density aonla orchard established under organic management system (as PI).</li> <li>➤ Comparative evaluation of pecan cultivars planted under organic management system (as PI).</li> <li>➤ Comparative evaluation of apple cultivars planted under organic management system (as PI).</li> <li>➤ Studies on low chilling pear orchard established under organic management system (as PI).</li> </ul>
<b>Scientist</b>	Worked as a Incharge, Horticulture Block at Organic Farming Research Centre, SKUAST-J,

<b>(Associated), OFRC, SKUAST-J, Chatha</b>	Chatha w.e f March, 2016 to March, 2023. ➤ Developed One hectare area by planting high density organic orchards of guava, mango, aonla, pecan, low chilling pear and apple.
<b>Fruit Variety Developed</b>	➤ As Principal Breeder developed Mango variety “Jammu Mango” IC number 625734, released by 23 <sup>rd</sup> SSSC on 23 <sup>rd</sup> March, 2017 & Notified by CVRC Ministry of agriculture, Govt. of India, New Delhi on 05 <sup>th</sup> November, 2018. Now Jammu Mango is approved for MLT under ICAR-AICRP Fruits in February, 2019 at five locations in India. ➤ As Co-Principal Breeder contributed for the development of Pecan nut Variety “SJPP-25” recommended & release in 2020 by State Seed Sub-Committee Meeting for the release of crop varieties held at SKUAST-Jammu.
<b>Technologies Developed</b>	<ol style="list-style-type: none"> <li>1) High density planting in guava with the planting distance of 6.0 m x 3.0 m, 3.0 x 3.0 m &amp; 3.0 x 1.5 metres (row to row and plant to plant) has been standardized under Jammu sub-tropics</li> <li>2) High density planting in mango with the planting distance of 4.5 m x 4.5 m &amp; 4.0 x 3.0 metres (row to row and plant to plant) has been standardized under Jammu sub-tropics.</li> <li>3) Rejuvenation Technology technique has been standardized along with the complete calendar of operations to the extent of its commercialization as 30-40 per cent of the mango orchards in Jammu province.</li> <li>4) Integrated Nutrient management in guava cv. Sardar.</li> <li>5) Air layering in Litchi with the recommendation of Litchi layers treated with IBA 500 ppm in the first week of August and planted in polythene bags of size 22 cm x 10 cm x 8 cm filled with the soil of litchi orchard received maximum rooting, survival percentage with least time taken for rooting.</li> <li>6) Orchard under waterlogged conditions, An innovative technique was developed for establishment of orchard under excessive water conditions which proved to be a successful venture. (collaborative work)</li> <li>7) Enhancement of shelf life in strawberry cv. Chandler standardized with 0.6 per cent CaCl<sub>2</sub> by 2.5 days under ambient conditions alongwith foliar spray of 0.4 per cent FeSO<sub>4</sub> increases vegetative growth while, 0.4 per cent ZnSO<sub>4</sub> resulted in quality fruit production</li> <li>8) Standardization of maturity indices for sub-tropical fruit crops such as mango, guava, aonla and peach have been standardized under Jammu sub-tropics</li> <li>9) High density planting in guava under organic management at a planting distance of 6.0 m x 3.0 metres (row to row and plant to plant) under Jammu sub-tropics with complete package of practices and calendar of operations has been standardized and recommended for organic high density orcharding in guava.</li> <li>10) A new variety of lime is in pipeline namely; JMU Lime(sel-70) which was made after survey and selection of seedling grown 75 acid lime genotypes. This lime selection has been multiplied and planted at different location for its performance under different districts of Jammu sub-tropics.</li> </ol>

#### **TEACHING**

<b>Courses taught</b>	Course Instructor to various BHT, UG, MSc and PhD courses of Fruit Sciences from 2008 to till date.	
<b>Students guided</b>	<b>Degree programme</b>	<b>No.'s</b>
	M. Sc.	08
	Ph. D.	02
<b>E-Learning Courses</b>	As Content Creator, designed E-Learning Course FSc-502, Unit –VI, BSMA Group for Call-3(PG courses) under ICAR-NAHEP Component-2.	
<b>Incharge Academics</b>	Worked as a Incharge Academics for the period of one year in the Division of Fruit Science, FoA, SKUAST-J, Chatha, Jammu	

#### **EXTENSION**

<b>Demonstrations Established</b>	➤ <b>High Density orchards demonstrations were planted on the private land of the farmers and trainings were imparted upto orchard establishment for the period of three years.</b>
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	<ol style="list-style-type: none"> <li>1. Established demonstration unit of HDP guava at 3.0 x 6.0 metre spacing in the Farmers field, Talab tillo Jammu in 2012.</li> <li>2. Established two demonstration unit of HDP mango at 4.5 x 4.5 metre spacing in the private land of farmers at Flora Nagbani, Jammu and at Patti Samba in 2012.</li> <li>3. Established demonstration unit of HDP guava at 3.0 x 6.0 metre spacing in the Farmers field, Patti Purmandal, Samba in 2012.</li> <li>4. Established demonstration unit of HDP guava at 3.0 x 1.5 metre spacing at ACHR, SKUAST-J, Udheywalla, Jammu in 2015.</li> <li>5. Replanted the established demonstration of HDP guava at 3.0 x 1.5 metre spacing from ACHR, SKUAST-J, Udheywalla to technology park main campus Chatha, SKUAST-Jammu in 2018.</li> <li>6. Established demonstration unit of HDP mango at 3.0 x 4.0 metre spacing private land of farmer at Khatryal, Chann Arorian, Distt. Kathua 2017.</li> <li>7. Established demonstration of HDP guava at a spacing of 3.0 x 1.5 on raised beds at Water Management Research Centre, SKUAST-J, Chatha Jammu in 2018.</li> <li>8. Established demonstration on organic High density guava orchard at a spacing of 3.0 x 6.0 metres at OFRC, SKUAST-, Chatha in 2016.</li> <li>9. Established a demonstration on high density aonla intercropped with phalsa at OFRC, SKUAST-J, Chatha, Jammu in 2016</li> <li>10. Established demonstration on High density mango orchard at a spacing of 4.5m x 4.5m at OFRC, SKUAST-, Chatha in 2018.</li> <li>11. Established a demonstration on different pecan cultivars at OFRC, SKUAST-J, Chatha, Jammu in 2019</li> <li>12. Established a demonstration on different low chilling apple cultivars at OFRC, SKUAST-J, Chatha, Jammu in 2019</li> <li>13. Established a demonstration on low chilling pear cultivars at OFRC, SKUAST-J, Chatha, Jammu in 2019.</li> </ol>
<b>Trainings / organized / coordinated / assisted</b>	12 number
<b>Lecture (ICAR Trainings/ SAMETI /One day training prog.)</b>	100 number
<b>Organization of Kissan Mela</b>	Worked as a member and resource person in different committees.
<b>PUBLICATIONS</b>	
<b>Research papers</b>	<b>Total - 52 no.'s</b> 1) NAAS rating $\geq 6.0$ = <b>24 number</b> 2) NAAS rating 4.0-6.0 = <b>19 number</b> 3) NAAS rating $< 4.0$ = <b>09 number</b>
<b>Review papers</b>	06 no.
<b>Research Articles</b>	10 no.
<b>Souvenir Chapters</b>	20 no.
<b>Pamphlets</b>	16 no.
<b>Technical booklets</b>	06 no.
<b>Book chapters</b>	20 no.
<b>Book</b>	01 no.
<b>Capacity Building and Recognition</b>	
<b>Professional Societies</b>	<ul style="list-style-type: none"> <li>➤ Life Member of 07 Scientific Journals</li> <li>➤ Editorial member of 03 Scientific Journals.</li> <li>➤ Reviewer of 05 Journals</li> </ul>
<b>Awards</b>	<ul style="list-style-type: none"> <li>➤ Awarded with first prize in poster presentation under the theme area Horticulture crops on the topic entitled "Evaluation of promising local selections of sucking type of mango (<i>Mangifera Indica</i> L.)" during the International conference by Indian Ecological Society on Natural Resource management: Ecological Perspectives at SKUAST-J, Chatha-Jammu from 18<sup>th</sup> to 20<sup>th</sup> February, 2016</li> <li>➤ Received Best paper award in the oral presentation on the topic "Studies on rooting and survival of litchi air layers as influenced by growth regulators" during the National Conference on Perspective Challenges and options in Litchi Production and Utilization Organized by ICAR-National Research Centre for Litchi, Mushahari, Bihar from 6<sup>th</sup> – 7<sup>th</sup> June, 2017.</li> <li>➤ Honoured with Young Scientist Award-2017 in the field of Fruit Science by Mahima Research Foundation and Social Welfare during the International Conference on Agricultural, Allied Sciences &amp; Biotechnology for Sustainability of Agriculture, Nutrition</li> </ul>

	<p>&amp; Food Security w.e.f 25<sup>th</sup> -26<sup>th</sup> November, 2017 at Banaras Hindu University, Varanasi, U.P, India.</p> <ul style="list-style-type: none"> <li>➤ Honoured with Young Horticulturist Award - 2019 in the 2<sup>nd</sup> International Conference on Agro Environmental Development Society at Dr Y.S. Parmar University of Horticulture and Forestry, Solan, H.P w.e.f 27-29, September, 2019.</li> <li>➤ Successfully cleared the interview after screening and got Selected for ICAR-Post Doctorate Fellowship at IARI, New Delhi as intimated by Dean and Jt. Director (Education) vide letter No. PGS-II/78-02/PDF/2019-20, dated: - 13-12-2019</li> <li>➤ Recipient of Young Horticultural Scientist Award-2019 by Society for Horticultural Research and Development in Indian Horticulture Summit – 2020 on “Mitigating Climate Changes and Doubling Farmer’s Income through Diversification” held at Chitrakoot, Madhya Pradesh w.e.f 14-16 February, 2020 at Chitrakoot w.e.f, Feb14-16, 2020.</li> <li>➤ Received Best poster award on the topic “Effect of organic manures on quality and yield of high density plantation of guava (<i>Psidium guajava</i> L.) cv. L-49” during the 30<sup>th</sup> Annual Conference on Institutional changes for inclusive and sustainable agricultural development organized by AERA at SKUAST-J, Chatha-Jammu from 21<sup>st</sup> to 23<sup>rd</sup> December 2022.</li> </ul>
<b>Appreciations received</b>	<ol style="list-style-type: none"> <li>1) Received letter of Appreciation from Hon’ble Vice-Chancellor, SKUAST-Jammu the development, release and Notification of the mango variety “Jammu mango (Selection-05)”</li> <li>2) Received Certificate of Appreciation from Director Research, SKUAST-Jammu for acting as Team Leader/ Principal Breeder for the Release and Notification of mango variety “Jammu mango (Selection-05)” .</li> <li>3) Received Certificate of Appreciation for acting as Convener of Technical Session II “New Paradigm in Litchi production and value chain management” during the National Conference on Perspective Challenges and options in Litchi Production and Utilization Organized by ICAR-National Research Centre for Litchi, Mushahari, Bihar from 6<sup>th</sup> – 7<sup>th</sup> June, 2017.</li> <li>4) Received Certificate of Appreciation for smoothly conductance of the National Symposium of Indian Phytopathological Society (North Zone) &amp; Annual Meeting-2017 on “Ecologically sustainable plant diseases management under diversified farming situation” from November 13 -14, 2017 at SKUAST-Jammu</li> <li>5) Received Certificate of Appreciation for acting as Convenor of the session “Technological innovations in Horticulture” in the National Conference on “Innovative Technological Interventions for Doubling Farmers’ Income” from February, 08 to 10, 2018 at SKUAST-J, Chatha, Jammu.</li> </ol>
<b>National Level Committee Member</b>	<ul style="list-style-type: none"> <li>➤ Member of Agricultural and Processed Food Products Export Development Authority (APEDA) for Sub-Committee of Integrated Farming System along with Agro Forestry and Agri Inputs for Natural Farming vide WTO- 2021-22-000022, dated: 2<sup>nd</sup> February, 2022.</li> <li>➤ Expert/Scientist (Fruit Science, Horticulture) for functioning of Kissan Call Centre, Ministry of Agriculture &amp; Farmers Welfare, Department of Agriculture &amp; Farmers Welfare, Extension Division, Directorate of Extension, Krishi Bhawan, New Delhi vide office No. F.No. 16-(34)/2017-KCC/EM and Director Extension Letter No. AUJ/DE/F-83/21-22/1537, dated: - 25-10-2021.</li> </ul>

S/d

**Dr. Akash Sharma**

Associate Professor

Fruit Science (Horticulture)

SKUAST-Jammu