

## Short Biodata of Dr. Akash Sharma(Professor)

<b>Name</b>	Prof. (Dr.) Akash Sharma. PhD (Fruit Science) Fellow Society for Development of Horticulture Visiting Fellowship:-NSW-DPI, Dareton, Australia.
<b>Designation &amp; Place of Posting</b>	Professor (Direct), Division of Fruit Science, Faculty of Horticulture and Forestry, Main Campus, SKUAST-Jammu, Chatha-Jammu-180009
<b>D.O.B</b>	25 <sup>th</sup> August, 1979
<b>Father's Name</b>	Sh. Jia Lal Sharma
<b>Mother's Name</b>	Smt. Manju Sharma
<b>Spouse Name</b>	Dr Poonam Sharma
<b>RESEARCH</b>	
<b>Externally funded project (Ongoing) (As P.I.)</b>	➤ Rooftop/Container gardening of fruit crops under Jammu sub-tropics, funded by JKST&IC February, 2023 to March, 2025.
<b>Externally funded projects (Concluded) (As P.I.)</b>	<ul style="list-style-type: none"> <li>➤ High Density orcharding of mango and guava in Jammu sub-tropics, funded under (HTMM(MM-1) 2011-2014.</li> <li>➤ High Density orcharding of mango and guava in Jammu sub-tropics, funded under (MIDH) 2014-2017.</li> <li>➤ Future prospect of rooftop farming for container grown fruits in Jammu region, funded under( RKVY) 2020-2021.</li> </ul>
<b>Externally funded projects (Concluded) (As Co-P.I.)</b>	<ul style="list-style-type: none"> <li>➤ Centre of Excellence in Horticulture (Fruits),SKUAST-J, Udheywalla-Jammufunded under MIDH 2018- 2023.</li> <li>➤ Trainings and demonstration of old/unproductive orchards in Jammu Sub-tropics2011-2017funded by (HTMM &amp; MIDH)</li> <li>➤ Quality planting material of subtropical fruit crops, funded under (MIDH)2014-2017.</li> </ul>
<b>University funded projects (As P.I.)</b>	<ul style="list-style-type: none"> <li>➤ “Survey, selection and maintenance of some cultivars of mango” 2008-2016.</li> <li>➤ Effect of Plant Growth Regulators on rooting of litchi (<i>Litchi chinensis</i> Sonn.) air layers 2010-2013.</li> <li>➤ Development of High Density Fruit Orchards under Organic management system 2016-2022.</li> </ul>
<b>Scientist(Associate d)CONF, SKUAST-J, Chatha</b>	Worked as a Incharge, Horticulture Block at Centre for Organic and Natural Farming, SKUAST-J, Chatha from 2016 to 2022. <ul style="list-style-type: none"> <li>➤ Developed high density organic model orchard demonstrations at an area of one hectare.</li> </ul>
<b>Variety Developed</b>	<ul style="list-style-type: none"> <li>➤ 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 &amp;Notified by CVRC Ministry of agriculture, Govt. of India, New Delhi on 05<sup>th</sup> November, 2018.</li> <li>• Approved for National Level Testing in the Annual workshop under ICAR-AICRP Fruits at Jorhat in February, 2019 for five locations viz.,Pantnagar (Uttarakhand), Mohanpur (West Bengal), Sabour (Bihar) and Lambuchhera (North East) and Neri, Hamirpur (HP).</li> </ul>
<b>Publications</b>	<b>– 151 No.’s</b>
<b>Research papers</b>	<b>Total - 58 no.’s</b> <ul style="list-style-type: none"> <li>1) NAAS rating &gt;10.0 = 02No’s.</li> <li>2) NAAS rating 8.0-10.0 = 03No’s.</li> <li>3) NAAS rating 6.0-8.0 = 21No’s.</li> <li>4) NAAS rating 4.0-6.0 = 07No’s.</li> <li>5) NAAS rating &lt; 4.0 = 25No’s.</li> </ul>
<b>Review papers</b>	06 no.

<b>Research Articles</b>	09 no.
<b>Souvenir Chapters</b>	21 no.
<b>Pamphlets</b>	20 no.
<b>Technical booklets</b>	10 no.
<b>Book chapters</b>	23 no.
<b>Book</b>	04 no.
<b>Google Citation profile</b>	Citations : 749; i10-index : 23; h-index : 17.
<b>Research Gate profile</b>	Citations : 485; RI Score : 679.8; h-index : 13.
<b>Elsevier Scopus profile</b>	Citation : 157; Documents : 24; h-index : 08.
<b>Varieties in pipeline.</b>	<ul style="list-style-type: none"> <li>• Acid Lime Variety: JMU Lime (Sel-70) is under Multi-location testing at KVK Samba, Kathua, Reasi and Department of Horticulture Nursery, Moralia.</li> <li>• Bael Variety : JMU-Bael (Sel-27) plants have been multiplied and will be planted in this year for multi-location testing in different districts of Jammu sub-tropics.</li> </ul>
<b>Technologies Developed (As PI)</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) 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> </ol>
<b>International Exposure</b>	➤ Successfully completed thirty three days study sabbatical on “Introduction to telemetry soil and climate monitoring training” on 01 <sup>st</sup> December, 2023 at NSW-DPI Research Institute, Dareton-Australia
<b>National Exposure</b>	<ul style="list-style-type: none"> <li>➤ Visited ICAR-IIHR, Hessaraghatta, Bangalore in July,2009 &amp; August, 2013.</li> <li>➤ Visited the Organic Farm at CSKHPKV, Palampur, H.P in 2015.</li> <li>➤ Visited ICAR-Central Citrus Research Institute, Nagpur, Maharashtra in 2015.</li> <li>➤ Visited ICAR-National Research Centre for Litchi, Mushahari, Muzaffarpur, Bihar, India in 2017.</li> <li>➤ Visited ICAR-Central Institute for Sub-Tropical Horticulture (CISH), Rehmankhara, Kakori, Lucknow, UP, India in 2017.</li> <li>➤ Visited ICAR- Indian Agricultural Statistics Research Institute (IASRI), Pusa, New Delhi in 2017.</li> <li>➤ Visited Ministry of Agriculture and Farmers Welfare, Government of India, Shastri Bhawan, New Delhi, India in 2018.</li> </ul>

	<ul style="list-style-type: none"> <li>➤ Visited Assam Agricultural University, Jorhat, Assam, India in 2019 for ICAR-AICRP(fruits) Annual workshop.</li> <li>➤ Visited Dr Y.S.P University of Horticulture &amp; Forestry, Nauni, Solan, Himachal Pradesh, India in 2020.</li> <li>➤ Visited IARI, New Delhi on 10<sup>th</sup> December, 2019 for appearing in the interview for Post Doctorate Fellowship.</li> <li>➤ Visited College of Horticulture &amp; Forestry, Central Agriculture University (Imphal), Pasighat, Arunachal Pradesh India in 2023.</li> <li>➤ Visited RARI, Durgapur, Jaipur, Rajasthan India in 2024.</li> </ul>
<b>Fellowship Award</b>	<ul style="list-style-type: none"> <li>➤ 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>➤ Received “Fellow of the Society Award” by Society of Horticulture Research and Development (SHRD) in the 3<sup>rd</sup> Horticulture Summit-cum-International Conference at RARI, Durgapur, Jaipur, Rajasthan from 01-03 February, 2024.</li> </ul>
<b>Young Scientist Awards</b>	<ul style="list-style-type: none"> <li>• Honoured with Young Scientist Award -2017 for outstanding contribution in the field of Fruit Science during the International Conference at Banaras Hindu University, Varanasi, U.P, India</li> <li>• Decorated with Young Horticulturist Award-2019 for outstanding contribution in the field of Horticulture during 2<sup>nd</sup> International Conference at Dr. YSPR, University of Horticulture &amp; Forestry, Solan, H.P, India</li> <li>• Awarded with Young Horticultural Scientist Award -2019 for significant contribution in Fruit Science in Horticulture Summit-2020 at Chitrakoot, Madhya Pradesh.</li> </ul>
<b>Best paper/poster Award</b>	<ul style="list-style-type: none"> <li>➤ Received first prize in poster presentation in 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 oral presentation Award in the National Conference Organized by ICAR-National Research Centre for Litchi, Mushahari, Bihar from 6<sup>th</sup> – 7<sup>th</sup> June, 2017.</li> <li>➤ Received Best poster award in the 30<sup>th</sup> Annual Conference of Agricultural Economics Research Association (AERA) held at SKUAST-J, Chatha-Jammu from 21<sup>st</sup> to 23<sup>rd</sup> December 2022.</li> <li>➤ Received Best Oral presentation Award at the 6<sup>th</sup> J&amp;K Agricultural Science Congress held at SKUAST-Jammu from February 08-10, 2024.</li> </ul>
<b>Appreciations received (Total :- 10 No's )</b>	<ul style="list-style-type: none"> <li>• Received Certificate of Appreciation from Director Research, SKUAST-Jammu vide No. AUJ/DR/21-22/F-P.F/1779, dated: - 19-07-2021 for the development of organic orchards of guava, mango and Aonla at OFRC, and also appreciated for establishing Centre of Excellence (Fruits) at ACHR, SKUAST-Jammu.</li> <li>• Received letter of Appreciation from Hon'ble Vice-Chancellor, SKUAST-Jammu vide No. AUJ/VC/18-19/G-01/692, dated: January 04, 2019 for the development, release and Notification of the mango variety “Jammu mango (Selection-05)” as conveyed by Director Research SKUAST-Jammu vide his letter No. AUJ/DR/18-19/F-49/7162-7200, dated: - 11-01-2019.</li> <li>• Received Certificate of Appreciation from Director Research, SKUAST-Jammu vide No. AUJ/DR/18-19/F-49/7369, dated:- 17-01-2019 for acting as Team Leader/ Principal Breeder for the Release and Notification of mango</li> </ul>

	variety “Jammu mango (Selection-05)”.
<b>TEACHING</b>	
<b>Courses taught</b>	Teaching BSc Agriculture; BSc Horticulture; MSc and PhD Fruit Science (Horticulture) courses.
<b>Students guided</b>	➤ <b>Ph.D. (02 No's)</b>
	• Morphological and molecular characterization of seedling grown bael genotypes in Jammu region
	• Morphological, bio-chemical and molecular characterization of indigenous lime genotypes.
	➤ <b>M. Sc. (09 No's)</b>
	• Studies on foliar application of liquid organic formulations on yield and quality of guava cv. L-49”
	• Multiplication of Guava ( <i>Psidium guajava</i> L.) through cuttings in different growing media under controlled conditions.
	• Effect of pruning on yield and quality of high density guava ( <i>Psidium guajava</i> L.) cv. L-49
	• Effect of different pruning intensities on growth, yield and quality of Kinnow ( <i>Citrus reticulata</i> Blanco).
	• Effect of Nutrition on yield, quality and shelf life of mango ( <i>Mangifera indica</i> L.) cv. Dashehari under Jammu sub-tropics.
	• Growth and Survival of Kinnow plants as influenced by different types of potting material and propagation media.
	• Propagation studies in guava ( <i>Psidium guajava</i> L.) cv. L-49 under Jammu sub-tropics.
	• <i>In vitro</i> multiplication of Banana ( <i>Musa Spp.</i> ) cv. Grand Naine.
	• Studies on the effect of plant bioregulators on growth, yield and quality of strawberry ( <i>Fragaria x ananassa</i> Duch) cv. Chandler
	<b>Under Guidance (One PhD Scholar)</b>
• Studies on irrigation, fertigation and canopy management of Guava cv. Shweta.	
<b>E-Learning Courses</b>	<ul style="list-style-type: none"> <li>• Attended One-month Massive Open Online Course (MOOC) on “Digital Teaching Techniques” held during 01 to 31<sup>st</sup> December, 2021 conducted by ICAR- NAARM, Hyderabad.</li> <li>• As Content Creator, designed E-Learning Course FSc-502, Unit –VI, BSMA Group for Call-3(PG courses) under ICAR-NAHEP Component-2.</li> <li>• Developed E-learning contents (4 quadrants) for farmers under Holistic Agriculture Development Program (HADP) Jammu and Kashmir.</li> </ul>
<b>External Paper Setting and Evaluator</b>	<ul style="list-style-type: none"> <li>➤ Appointed as Paper-setter/Evaluator for theory examination of Dr. Y.S Parmar University of Horticulture &amp; Forestry Neri Hamirpur (HP) 2013-14, 2015-16 &amp; 2019-20.</li> <li>➤ Appointed as Paper-setter/Evaluator for theory examination of College of Forestry, Ranichauri, V.C.S.G. Uttarakhand University of Horticulture &amp; Forestry (Teri Garwal) Uttarakhand in 2018-19.</li> <li>➤ Appointed as External Examiner for conducting Comprehensive Viva Voce of 02 PhD students at College of Horticulture &amp; Forestry, Central Agriculture University (Imphal), Pasighat, Arunachal Pradesh India in July, 2023.</li> </ul>
<b>Incharge Academics</b>	1 <sup>st</sup> August 2010 to 2 <sup>nd</sup> February, 2012 in the Division of Fruit Science.

## EXTENSION

<b>Demonstrations laid on High Density model orchards</b>	14 number
<b>Trainings / organized / coordinated / assisted</b>	20 number
<b>Lecture (ICAR Trainings/ SAMETI /One day training/awareness programmes)</b>	200 number
<b>Consultancy assignment/ Diagnostic visits</b>	<ul style="list-style-type: none"> <li>➤ Diagnostic visit to the fruit orchard owned by Sh. Pramod Jain, IAS (Retd.) on 23-07-2021 vide Head Fruit Science Office order No. AUJ/Pom/21-22/161-164, dated: - 20-07-2021.</li> <li>➤ Diagnostic visit vide communication No. AUJ/DR/F-29/6841-6843, dated: - 07-02-2022 at Government Middle School Jagti, Nagrota with the request of Mr. B.K. Toshkhani through his email dated 02-02-2022 to Director Research, SKUAST-Jammu.</li> <li>➤ Visited the Army unit at Newplot, Jammu on 29-07-2015 regarding problems related to fruit orchards established in the army unit.</li> <li>➤ Visiting Scientist for checking the strawberry runners for varietal identification available in the private nurseries in Majouri Block, Tehsil:- Basantgarh, Distt:- Udhampur.</li> </ul>
<b>Organization of Kissan Mela</b>	<ul style="list-style-type: none"> <li>➤ Worked as a member and resource person in different committees.</li> <li>➤ Delivered duties in the Kissan Suchna/ParmarshKender in the Krishak Mela, at SKUAST-Jammu.</li> <li>➤ Delivered the duties at ACHR stall in the Krishak Mela at SKUAST-Jammu.</li> <li>➤ Worked as a member of Field Visit Committee during the Kissan Mela.</li> <li>➤ Delivered the duties at OFRC stall in the Kissan Mela at SKUAST-Jammu.</li> </ul>
<b>Expert (Scientist)</b>	<ul style="list-style-type: none"> <li>➤ Expert team member for Mera Gaon Mera Gourav programme.</li> <li>➤ For officer monthly workshops at Distt Udhampur.</li> <li>➤ Worked as a resource person in the village visit and revisit programme in different blocks of Jammu, Reasi, Samba and Kathua districts.</li> <li>➤ As expert scientist, Accredited 05 nurseries in Jammu along with the team of National Horticulture Board.</li> <li>➤ Provided consultancy as Expert/ Scientist for Kissan Call Centre of SKUAST-Jammu in the year 2021 and 2022 at SKUAST-Jammu.</li> <li>➤ Prepared a report on "Use of Ethylene Powder for Deputy Secretary to the Government of J&amp;K.</li> </ul>
<b>National Level Consultancy</b>	<ul style="list-style-type: none"> <li>• Member of APEDA, in the expert committee "Integrated farming system along with agro forestry and Agri-inputs for natural faming" constituted vide No.: WTO-2021-22-000022, dated: - 2<sup>nd</sup> February, 2022 (Two years)</li> <li>• Expert/Scientist 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 from 25-10-2021 to till date.</li> </ul>

## Planted & Established High density Fruit orchards under HTMM & MIDH Proj's.

S.No	Demonstration	Location	Spacing	Plants hec <sup>-1</sup>	Year of planting
<b>Guava High Density Orchards</b>					
1	HDP- Guava	Sh. Shammi Saini R/O Gole, Talab Tillo	6.0 x 3.0 m	555	March, 2012
2	HDP-Guava	Sh. Deepak Kumar, Patti, Purmandal	6.0 x 3.0 m	555	March, 2012
3	HDP-Guava	ACHR, Udheywalla, SKUAST-Jammu	3.0 x 1.0 m	2222	March, 2015
Uprooted HDP-Guava of ACHR, Udheywalla, SKUAST-Jammu in 2018 and replanted in the Technology park opposite to Directorate of Extension, SKUAST-J, Chatha, Jammu.					
4	HDP-Guava	Sh. Om Parkash R/O Sanjwan, Distt. Kathua	3.0 x 3.0 m	1111	September, 2016
5	HDP-Guava	Organic Farming Research Centre, SKUAST-J, Chatha.	6.0 x 3.0 m	555	August, 2016
6	HDP-Guava	Water Management Research Centre, SKUAST-Jammu	3.0 x 1.0 m	2222	March, 2017
<b>Mango High Density Orchards</b>					
1	HDP-Mango	Sh. Madan Lal R/O Flora, Nagbani	4.5 x 4.5 m	493	March, 2012
2	HDP-Mango	Sh. Jagdish Chander R/O Chann Arorian, Distt. Kathua	4.0 x 3.0 m	833	March, 2016
3	HDP-Mango	Organic Farming Research Centre, SKUAST-J, Chatha.	4.5 x 4.5 m	493	August, 2016
<b>High Density Organic Low Chilling Apple Orchard</b>					
1	HDP Apple	Organic Farming Research Centre, SKUAST-J, Chatha.	3.0 x 3.0 m	111	February, 2020
<b>High Density Organic Low Chilling Pear Orchard</b>					
1	HDP Pear	Organic Farming Research Centre, SKUAST-J, Chatha.	5.0 x 5.0 m	400	February, 2018
<b>High Density Organic Aonla orchard intercropped with Phalsa</b>					
1	HDP Aonla	Organic Farming Research Centre, SKUAST-J, Chatha.	4.0 x 3.0 m	833	August, 2016
<b>High Density Organic Pecan Orchard</b>					
1	HDP Pecan	Organic Farming Research Centre, SKUAST-J, Chatha.	5.0 x 5.0 m	400	February, 2020