<table>
<tr><td>1</td><td>Name</td><td>DR. AKASH SHARMA</td></tr>
<tr><td>2</td><td>Designation</td><td>Asstt. Professor</td></tr>
<tr><td>3</td><td>Contact Address</td><td>Advanced Centre for Horticulture Research, SKUAST-J, Udheywalla, Jammu</td></tr>
<tr><td>4</td><td>Email</td><td>akashskuastj@gmail.com</td></tr>
<tr><td>5</td><td>Mobile</td><td>+91-9906397720</td></tr>
<tr><td>6</td><td>Professional Experience</td><td>Eight years of teaching, research & extension at UG & PG level</td></tr>
<tr><td>7</td><td>Awards/honours/ scholarships/ fellowships</td><td>Awarded with first prize in poster presentation on the topic “Evaluation of promising local selections of sucking type of mango (Mangifera Indica L.)” during the International conference-2016 –Indian Ecological Society on Natural Resource management: Ecological Perspectives at SKUAST-J, Chatha-Jammu from 18th to 20th February, 2016</td></tr>
<tr><td>8</td><td>Area of Specialization</td><td>Fruit Science (Horticulture)</td></tr>
<tr><td>9</td><td>Research Interests</td><td>Production technologies for fruit crops</td></tr>
<tr><td>10</td><td>Total No. of Publications</td><td>Total: 48 No.’s
1) Research papers : 31No.’s; National: 25No.’s, International: 06 No.’s
2) Review paper: 02 No.’s; Book chapters: 05 No.’s Extension bulletins: 04 No.’s
3) Booklets: 06 No.’s; Abstracts: 30 No.’s</td></tr>
<tr><td>11</td><td>Selected publications (Best five)</td><td>1) Sharma, A., Wali, V.K., Bakshi, P., Sharma, V., Sharma, V., Bakshi, M. and Rani, S. 2016. Impact of poultry manure on fruit quality attributes and nutrient status of guava (Psidium guajava L.) cv. L-49 plant, Indian Journal of Agricultural Sciences, 86 (4): 533-40.
2) Rani, S. Sharma, A., Wali, V.K., Bakshi, P. and Ahmed, S. 2015. The standardization of method and time of propagation in guava (Psidium guajava). Indian Journal of Agricultural Sciences, 85 (9): 1162-9.
3) Sharma, A., Wali, V.K., Bakshi, P. and Jasrotia, A. 2013. Effect of integrated nutrient management strategies on nutrient status, yield and quality of guava. Indian Journal of Horticulture, 70(3): 333-339
4) Bakshi, P., Wali, V.K., Bhushan, B. and Sharma, A. 2014. Studies on variability in physico-chemical traits and multiplication of Daru (wild pomegranate) collections. Indian Journal of Horticulture, 71(1): 12-15
5) Jasrotia, A., Wali, V.K., Bakshi, P., Bhushan, B., Sharma, A. and Kumar, R. 2014. Influence of pruning time and severity on growth, fruit quality and leaf nutrient status of olive (Olea europea) cv. Frontoio. Indian Journal of Agricultural Sciences, 84 (4): 461-467.</td></tr>
<tr><td>12</td><td>No. of books</td><td>01No. GUAVA “Integrated Nutrient Management”</td></tr>
<tr><td></td><td>Research Projects</td><td>➢ <u>Ongoing Externally Funded Research Projects</u>
<table>
<tr><th>S.No</th><th>Title of Project</th><th>Funded by</th><th>Year of start</th><th>Budget</th><th>Progress</th></tr>
<tr><td>1.</td><td>High Density orcharding of mango and guava in Jammu sub-tropics (as Principal Investigator)</td><td>MIDH (ICAR)</td><td>2014</td><td>24.00 lakhs</td><td>Ongoing</td></tr>
<tr><td>2.</td><td>Establishment of mother plant nurseries for high pedigree planting material for fruit crops (Co.P.I)</td><td>National Horticulture Board</td><td>2012</td><td>42 lakhs</td><td>Ongoing</td></tr>
<tr><td>3.</td><td>Trainings and demonstration of old/unproductive orchards in Jammu Sub-tropics(as Co.P.I)</td><td>MIDH (ICAR)</td><td>2014</td><td>24.00 lakhs</td><td>Ongoing</td></tr>
</table>
➢ <u>Concluded Externally Funded Research project</u>
<table>
<tr><th>S.No</th><th>Title of Project</th><th>Funded by</th><th>Year of start</th><th>Budget</th><th>Progress</th></tr>
<tr><td>1.</td><td>Production of quality planting material for sub-tropical fruit crops(as Co.P.I)</td><td>ICAR</td><td>2006</td><td>52.00 lakhs</td><td>Concluded March, 2014</td></tr>
<tr><td>2.</td><td>Trainings and demonstration of old/unproductive orchards in Jammu Sub-tropics (as Co.P.I)</td><td>ICAR</td><td>2010</td><td>26.00 lakhs</td><td>Concluded March, 2014</td></tr>
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3.	High Density orcharding of mango and guava in Jammu sub-tropics **(as Principal Investigator)**	ICAR	2011	20.50 lakhs	Concluded, March, 2014
4	Determination of quality and harvest maturity for commercially grown fruit crops in Jammu sub-tropics**(as Co.P.I)**	ICAR	2011	20.50 lakhs	Concluded March, 2014

- **Concluded University funded projects**

Title	Funding Agency	Period		Status
		From	to	
Effect of Plant Growth Regulators on rooting of litchi (*Litchi chinensis* Sonn.) air layers**(as P.I)**	SKUAST-J	2010	2013	Completed
Effect of super plant booster to increase early yield performance of kinnow mandarin**(as P.I)**	SKUAST-J	2010	2011	Completed
Effect of super Organosorb to increase early yield performance of kinnow mandarin**(as P.I)**	SKUAST-J	2010	2011	Completed
Effect of super Organosorb on shoot and root characters and survival of litchi air layers raised in polybags**(as P.I)**	SKUAST-J	2010	2011	Completed
"Survey, selection and maintenance of some cultivars of mango" **(as P.I)**	SKUAST-J	2008	2013	Completed
Effect of various calcium and micro-nutrient treatments on shelf-life of strawberry (*Fragaria* x *ananassa* Duch.) cv. Chandler (as Co-PI)	SKUAST-J	2010	2011	Completed

13 Other achievements, if any

Student guided as Major Advisor: M.Sc : 05No.'s , UG:-04No.'s

Student under guidance as Major Advisor: PhD:-01 No. & MSc:-01No., UG:06No.'s

Life Member of Professional Societies:

i. Horticultural Society of India, IARI, New Delhi.
ii. Society for Promotion of Horticulture, IIHR, Bangalore.
iii. Indian Society for Dryland Horticulture. ICAR-CIAH, Bikaner-Rajasthan.
iv. Society for Horticulture Research and Development, Ghaziabad (UP)
v. Indian Society of Citriculture, ICAR-CCRI, Nagpur – Maharashtra

Reviewer of the Journals

1. Indian Journal of Science and Technology ISSN : 0974-6846
2. Agriculture Research ISSN : 2249-720X
3. Indian Journal of Agricultural Sciences ISSN : 0019-5022
4. Current Horticulture ISSN : 2347-7377
5. International Journal of Agricultural Sciences ISSN : 0973-130X

Editorial Board member of the Journals:

1. Indian Journal of Agriculture Business (IJAB) ISSN : 2454-7964
2. Current Horticulture ISSN : 2347-7377

Organization of seminar/symposium/conference/workshop

As Co-Organizing Secretary

Organized a two days National Symposium on" Natural Resource Management and Sustainable Hill Farming System for Livelihood Security" From July 23-24, 2014, At Sher-e-Kashmir University of Agricultural Sciences and Technology. Organized by Soil Conservation Society of India, Jammu Chapter.

Additional Charge:

Organic Farming Research Centre, SKUAST-J, Chatha, Jammu

In addition to above mentioned duties, also working as member of core committee to boost Organic Farming Research Centre at Research Farm, Chatha and has laid out the following experiments:

- Establishment of High density organic guava orchard at a spacing of 3.0m x 6.0m
- Establishment of High density organic mango orchard. at a spacing of 4.5m x 4.5m
- Establishment of High density organic aonla orchard intercropped with phalsa at a spacing of 4.0m x 5.0m

❖ Establishment of High density organic pecan orchard at a spacing of 4.5m x 4.5m

Trainings conducted/Organized

S.No	Trainings conducted	Duration	Location	Participants
1	12No.'s	One day & Two days	Farmer's Field	Orchardists, Officials from Deptt. Of Horticulture

Demonstration Units Established:

S.No.	Demonstration	Spacing	Location
1.	HDP-Guava	3 x 1.5m	ACHR, Udheywalla
2.	HDP-Mango	3 x 4 m	Chann Arorian, Kathua
3.	HDP-Guava	6 x 3 m	OFRC, Chatha
4.	HDP-Mango	4.5 x 4.5 m	OFRC, Chatha
5.	HDP- Guava	6 x 3 m	Gole Talab Tillo
6.	HDP-Mango	4.5 x 4.5 m	Flora Nagbani
7.	HDP-Guava	6 x 3 m	Patti, Purmandal
8.	HDP-Mango	4.5 x 4.5 m	Patti, Purmandal
9.	HDP-Guava	3 x 3 m	Sanjwan, Kathua
10	HDP aonla	4x5m	OFRC, Chatha

Technology Popularized:

❖ Popularized High Density orcharding of mango and guava in Jammu Sub-tropics as PI of the Externally funded project

❖ Popularized Rejuvenation technology in mango, guava and ber in Jammu Sub-tropics as Co-PI of the externally funded project.

Research Achievements included in Package of Practices for Horticultural Crops 2015 , Directorate of Extension, SKUAST-Jammu

➢ **High density planting in guava**

❖ Planting distance of 6.0 m x 3.0 m (row to row and plant to plant) accommodating 555 plants per hectare has been standardized and recommended for high density orcharding in guava.

➢ **High density planting in mango**

❖ Planting distance of 4.5 m x 4.5 m (row to row and plant to plant) accommodating 495 plants per hectare has been standardized and recommended for high density orcharding in mango.

➢ **Rejuvenation Technology**

❖ A rejuvenation 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 are old/senile.

➢ **Integrated Nutrient management in guava**

❖ In guava cv. Sardar 50 per cent nitrogen requirement could be replaced with poultry manure when used with urea augmented with *Azotobacter* however, 25 per cent in the form of FYM integrated with urea and augmented with *Azotobacter* was also found equally effective in increasing the yield, quality and nutrient status of fruit, leaf and soil of guava.

➢ **Air layering in Litchi**

❖ 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 has been found most suitable technique for getting maximum rooting, survival percentage with least time taken for rooting.

➢ **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)

➢ **Enhancement of shelf life in strawberry**

❖ 0.6 per cent CaCl2 is helpful in extending shelf life of strawberry cv. Chandler by 2.5 days as against control (1.58 days) under ambient conditions.

❖ A foliar spray of 0.4 per cent FeSO4 increased vegetative growth while 0.4 per cent ZnSO4 resulted in quality fruit production

➢ **Standardization of maturity indices of sub-tropical fruits of Jammu region**

Maturity indices for sub-tropical fruit crops such as mango, guava, aonla and peach have been standardized and its importance as well as the best time for harvesting these fruit crops has been briefed to the orchardists/fruit growers of Jammu province. They have also been educated about the importance of grading to get good price of their produce.