

BIO- DATA**I. Personal Information:**

1. Name : Dr. Vivak M. Arya
2. Date & place of birth : 18-03-1979, Jammu
3. Nationality : Indian
4. Designation : Assistant Professor
5. Official address. : Division of Soil Science & Agricultural Chemistry,
FoA, Main Campus, SKUAST-J, Chatha, 180009
Mobile: 9419129844
Email. dr.arya999@gmail.com

II. Academic Information:

S.No.	Degree	Percentage	University
1.	M.Sc. Soil Science	85%	Indira Gandhi Krishi Vishwavidyalaya - [IGKV], Raipur (2003)
2.	Ph.D. Soil Science	76%	Sher-e-Kashmir University of Agricultural Sciences & Technology Jammu
3.	NET (ASRB)	-	Soil Science (2008)

III. Professional experience:**A. Work Experience:**

S. No.	Name of the post	Employer	Period		Period (year)
			From	To	
1.	Research Associate	SKUAST-J	27/06/07	29/11/07	1.42
2.	Research Associate	SKUAST-J	30/11/07	07/07/08	0.60
3.	Subject Matter Specialist	SKUAST-J	08/07/08	20/01/12	3.53
4.	ADRI	SKUAST-J	20/01/12	31/01/12	0.06
5.	Assistant Professor	SKUAST-J	01/02/12	Till date	6.61
Total					12.22

B. Area of interest: Soil health, Climate Change & Nitrogen Management

C. Externally funded project handling/completed

- I.** Networking project on revival of village ponds through scientific intervention (PI) (DST) GOI
- II.** Training and demonstration of LCC for real time nitrogen management under the climate smart agriculture practices (CSAP) for maintaining ecological integrity through KVK'S (PI) NABARAD
- III.** Refinement & improvement of soil quality & water productivity enhancement technology in rainfed orchards of Jammu region. (PI) MIDH
- IV.** AICRPAM-NICRA (PI) NICRA (ICAR) 2015-2017
- V.** Soil erosion risk mitigation & carbon sequestration potential of Climate resilient Agriculture practices in foot hills. (Co-PI) NICRA (ICAR)
- VI.** Demonstration of Technologies for Improving Productivity of Rainfed Area in Jammu District (Co-PI) DST
- VII.** NICRA – Strategic Research (Co PI) ICAR-CITH-NICRA
- VIII.** AICRPAM-NICRA (Co-PI) NICRA (ICAR) 2014-2015, 2017-2018
- IX.** NICRA-KVK-Kathua (Co-PI) 2010-2012

University Funded Project

- I) Assessment of fertilizer recommendations in Maize-Wheat based on Target Yield Concept (TYC) under subtropical plains of Kathua Distt. of J&K

New findings, recommendations etc..

1. Use of LCC can save 28 kg ha⁻¹ of urea in coarse var. Jaya, 12 kg ha⁻¹ for Pusa 1121 & 6-8kg ha⁻¹ in Basmati 370.
2. It can enhance the nitrogen use efficiency. It is a smart agriculture tool which can reduce the impact of climate change as excess use of urea causes ammonification, nitrification, denitrification, volatilization losses. Ammonia, nitrous oxide and nitrate are responsible for the ozone depletion and water pollution.
3. With the use of different resource conservation technologies (RCTs) there was improvement in water holding capacity (↑5-7%), infiltration rate (↑3 - 4 cm hr⁻¹) & storage capacity (↑ 5000-10000 m³) in the submontane region of Shivalik.
4. There was decline in runoff (↓ 30-35 m³ ha⁻¹ yr⁻¹) & sediment yield (↓ 4.0-5.5 t h^{a-1} yr⁻¹) due to adaptation of resource conservation techniques (RCT's) in the submontane region of Shivalik with the use of different resource conservation technologies (RCTs).
5. Demonstration of Technologies for Improving Productivity of Rainfed Area in Jammu District. DST, GoI.

D. Offices held in professional societies:

1. **Secretary**, (Jammu Chapter) Indian Society of Soil Science, New Delhi
2. **Councilor**, (Jammu Chapter) Soil Conservation Society of India, New Delhi

E. Publications:

1. 20 Research paper published in various National & International Journals. Few of them are as under:

S. No.	Publication Title	Journal	Vol. of Journal and page nos.	Year
1)	Phosphorous adsorption & desorption in Agro-climatically disparate soils representing foothills of Northwest Himalayas.	<i>Indian Journal of Ecology</i>	43(2): 697--705	2016
2)	Labile carbon pools and soil organic carbon stocks in the foothill Himalayas under different land use systems.	<i>Geoderma</i>	232-234: 81-87.	2014
3)	Total organic and inorganic carbon in soils under different land use/land cover systems in the foothill Himalayas	<i>Catena</i>	18292019)104104	2019
4)	Influence of agrochemicals on moisture stress mitigation in Indian mustard under rainfed conditions in Jammu.	<i>Journal of Soil & Water conservation</i>	16(3):274-278	2016

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|----|---|---|---------------|------|
| 5) | Spatial variability of soil pH and electrical conductivity in the Jammu district of Jammu and Kashmir. | <i>Journal of Soil & Water conservation</i> | 16(4):320-324 | 2016 |
| 6) | Land use effects on structural stability and soil organic carbon in the submontane areas of north-western Himalayas, India. Journal of Soil and Water Conservation. | <i>Journal of Soil and Water Conservation</i> | 17(2):117-122 | 2018 |

2. More than twenty articles published in various magazines & newspapers.
3. Technical bulletin and more than 35 chapters were published in various training compendiums.
4. **Books:**
 - a) Potassium Status in Northern Western Himalayas.
 - b) Potassium management in mountain agriculture.
 - c) POP for Kharif and Rabi of SKUAST-J, 2013. (Editor)

5. Book chapters:

- a) More than fifteen book chapters were published.

D. Membership of professional societies:

1. Soil Conservation Society of India, New Delhi (**Life Member**)
2. Indian Meteorological Society, New Delhi (**Life Member**)
3. Vayu Mandal, Official Bulletin, Indian Meteorological Society, New Delhi (**Member**)
4. Indian Society of Agronomy, New Delhi (**Life Member**)
5. Indian Ecological Society, Ludhiana (**Life Member**)
6. Society for Integrated Development of Agriculture, Veterinary and Ecological Sciences (SIDAVES), SKUAST-J (**Life Member**)
7. Indian Society of Soil Science, New Delhi (**Member**)

E. Paper presentation in seminars / conference/ workshops:

Presented papers in more than **twenty** national and international conferences at National & International level.

F. Awards and recognitions:

S. No.	Awards and recognitions	Year
1.	Best poster award in National workshop on Natural resource management for sustainable hill agriculture for paper entitled Response of fertilizer application on grains yield and nutrient uptake in rice growing inciptisols, at SKUAST-J, 9 th -10 th November 2006.	2006
2.	Best research paper award at National Symposium on “Natural Resource Management and Sustainable Hill Farming System for Livelihood Security” for paper entitled “Agro climatic Zonation of Jammu Province using GIS” at SKUAST –Jammu, July 23 rd -24 th 2014.	2014
3.	Special research award for contribution in NRM, Soil quality and Climate change by Soil Conservation Society, New Delhi. 2015.	2015

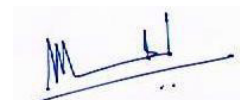
4. **Best research paper award** at National Seminar on “Sustainable Rural livelihood: Technological and Institutional perspective” for the research paper “Portfolios of Climate Resilient Agricultural Practices viz-a-viz Conservation Agriculture: learning for Scaling from Plot to landscape at NICRA villages” at SKUAST Jammu, January 8th -10th 2015. 2015
5. **Best research paper award at International Conference New Delhi** on “Natural Resource Management for Farming Systems and Rural Livelihood “for the research paper poster “Impact of Soil; based Conservation Agricultural Practices.....for Livelihood Security” at New Delhi, 10th -13th Feb. 2015. 2015
6. **Best research paper award** at 4th J&K Agriculture Science Congress in theme: Climate Resilient crop improvement system for enhancing productivity at SKUAST Jammu, 28th -30th Oct. 2015. 2015
7. **Best research poster award** at International conference on Natural Resource management: Ecological perspective presented paper: Effect of added phosphorus, organic matter and moisture regimes on phosphorus adsorption in soils of various agro climatic zones of Jammu region at SKUAST –Jammu, 18th - 20th Feb, 2016. 2016
8. **Best research paper award** in 26th National conference on “Natural Resource Management for Climate Smart Sustainable Agriculture at CPGS, CAU campus, Barapani, Shillong from 11th to 13th September, 2017. 2017
9. **Best research paper award** in National conference on "Impact of agricultural technologies in enhancing growth and income” at SKUAST – J from 23rd to 24th October, 2017 2017
10. **Best research paper award** in National conference on “Innovative Technological Interventions for Doubling Farmers Income” organized at SKUAST-J from 08th to 10th February, 2018. 2018
11. **Best research paper award** in two days „National seminar on “Smart technologies to boost farm profitability and socio economic status of rural India” jointly organized by Sher-e-Kashmir university of Agricultural Sciences & Technology (SKUAST) Jammu and Royal Association for science led socio-cultural advancement (RASSA) 19th - 20th November 2018 at SKUAST -J. 2018
12. **Best research paper award** in National conference on “Farmers” Friendly Soil and Water Conservation Technologies for Mitigating Climate Change Impact” jointly organized by Soil Conservation Society of India (SCSI) New Delhi & ICAR-Indian Institute of Soil and Water Conservation Regional Centre, 31st Jan. – 02nd Feb. 2019 at Ooty. 2019

13. **Best research paper award** in National conference on “Women Empowerment through Agro-Entrepreneurship for Livelihood Security” organized by Society for Integrated Development of Agriculture, Veterinary and Ecological Sciences (SIDAVES) 7th to 8th Feb. 2019 at SKUAST –J. 2019
14. **Best research paper award** in International Conference on “Global Initiatives for Sustainable Development: Issues and Strategies” organized by Gochar Educational and Welfare Society (GEWS) 23rd to 27th June 2019 at Bangkok, Thailand. 2019

I declare that the information given above is true to the best of my knowledge and belief.

Date: 19/08/2019

Place: SKUAST -Jammu



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