RESUME

MANISHA CHAUDHARY

Ph.D. Agronomy (Final thesis submitted)

PROFILE

Name
Manisha Chaudhary

Date of Birth
February 2nd, 1999

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LANGUAGES

English

Hindi

Punjabi

EDUCATION

Year	Degree	Institute	CGPA/ %
Pre-thesis submitted	Ph.D. Agronomy (Minor- Soil Science)	Lovely Professional University	8.51
2023	M.Sc. Agronomy (Minor- Soil Science)	Lovely Professional University	7.91
2020	B.Sc. Agriculture	Doon Pg College of Agriculture Science and Technology	79.45%
2016	12th (PCM)	Guru Nanak Mission Public School (CBSE)	76.60%
2014	10th	Guru Nanak Mission Public School (CBSE)	79.80%

RESEARCH EXPERIENCE

Ph.D. Agronomy: conducted a research trial entitled, **"Impact of planting patterns, nitrogen and FYM on growth and development of Fennel (*Foeniculum vulgare* Mill.) under variable weed control methods**" during *rabi* 2023-24 and 2024-25 under the supervision of **Dr. Ujagar Singh Walia.**

Objective: To study the impact of planting patterns, nutrition levels and weed management practices on growth and development of fennel.

Brief Description: It included two years field trials from October 2023 to April 2025. Acquired valuable insights into weed management, nutrient management, FYM, soil properties, data collection and analysis during this period. It included various planting patterns, nutrition levels with FYM and weed control methods (black mulch, white mulch, straw mulch, pendimethalin application). Over the course of trial, data related to weed density, crop morphology, yield, soil parameters and crop quality were collected. Statistical tools like OPSTAT, SPSS and MS excel were used to interpret and analyse the data.

M.Sc. Agronomy: conducted a research trail investigating the **"Optimization of fertilizer requirements for Napier grass + cowpea intercropping system"** from June 2022 to October 2022 under the supervision of **Dr. Rajiv.**

Objective: To evaluate effect of nutrient optimization on growth and yield of Napier grass with cowpea intercropping.

Brief Description: engaged in a field experiment focused on crop cultivation with different fertilizer doses and different ratios of intercropping followed by laboratory study of soil fertility and crop quality. Learned about crop cultivation practices including field preparations, sowing, fertilizer applications, fodder quality analysis etc. Data collection and analysis using different statistical tools and their significance.

B.Sc. Agriculture: carried out a live project on wheat cultivation focusing on sowing method, nutrient management along with harvesting and soil testing conducted during *rabi* 2018.

TRAINING AND CERTIFICATES

- **Advanced soil analysis**: examining soil composition and fertility to optimize agricultural production.
- **Plant analysis expertise**: In-depth knowledge of plant health assessment and nutrient analysis for crop quality estimation.
- **Conducting field trails**: proven track record in designing and executing field trails and managing crop production.
- **Data collections and analysis**: good knowledge about data collection related to research trails and employing statistical methods for interpreting and representing data.
- **Data handling**: skillful in managing large data sets with precision, accuracy and reliability.

Software Proficiency:

- **Microsoft Office**: good knowledge of Office tools for efficient documentation and presentation.
- **OPSTAT**: expertise in using OPSTAT for advanced statistical analysis.
- **SPSS**: utilizing statistical techniques for robust data interpretation.
- **GRAPES**: for statistical analysis and interpretation of data.
- **R Studio:** for statistical analysis.
- **Biorender:** for images and illustrations.
- **OriginPro:** Advanced data analysis tool and graphing

ACHIEVEMENTS

Best Oral Presentation Award – 09/2024

7th International conference on 'Advances in Agriculture Technology and Allied Sciences'

ORGANIZATIONS

IAAS INDIA LPU (Student organization LPU)(2023)
Coordinator of External Affairs

RURAL AGRICULTURE WORK EXPERIENCE

Mushroom Cultivation Training
(Govt. Fruit Preservation Centre, Rajpur Road, Dehradun).
Detailed Cultivation of Oyster mushroom.

Apiculture Training
(Govt. Fruit Preservation Centre, Rajpur Road, Dehradun).
Classification, life history, economic importance and honey harvesting of honeybees.

Fruit Preservation
(Govt. Fruit Preservation Centre, Rajpur Road, Dehradun).
Process and principles of fruit preservation. Preparation of Jam, Squash, Jelly.

Socio-economic studies
(Govt. Fruit Preservation Centre, Rajpur Road, Dehradun).

ASSOCIATION AND MEMBERSHIP

Reviewer

Plant Science Today (Scopus)

04/2024 – Present

Online proctor (Lovely Professional University)

06/2024- 0*6/2025*

BOOKS

Next-Generation Agronomy: Sustainable Crop Production in the AI era , ISBN number- 978-8199000193, BR Publishing House

PUBLICATIONS

S. No	JOURNALS	Publications	Year	NAAS/SJR Rating
1.	Plant Science Today	Effect of sulphur and biofertiliser use on yield and economic sustainability of mungbean (*Vigna radiata* L.)	2026	Q3 IF – 0.9 (SJR 0.22)
2.	Plant Science Today	Effect of nitrogen and FYM on growth and yield of fennel (*Foeniculum vulgare* Mill.) under variable weed control strategies	2025	Q3 IF – 0.9 (SJR 0.22)
3.	Plant Science Today	Influence of planting patterns and integrated weed management practices on weed biomass, growth and yield of Spring Maize	2025	Q3 IF – 0.9 (SJR 0.22)
4.	Agricultural Science Digest	Role of planting patterns and weed control methods on growth and development of Fennel (*Foeniculum vulgare* Mill.)"	2025	Scopus (SJR 0.18)
5.	Plant Science Today	Effects of integrated nutrient management and fertilizers on the yield of baby corn in Punjab's climatic context	2024	Q3 IF – 0.9 (SJR 0.22)
6.	Agricultural Science Digest	The Effect of Napier Grass + Cowpea Intercropping and Different Fertilizer Levels on Soil Characteristics and Economics	2024	Scopus (SJR 0.18)
7.	Agricultural Science Digest	The effect of cowpea intercropping and different fertilizer levels on growth and yield of Napier grass	2024	Scopus (SJR 0.18)
8.	Agricultural Reviews	Impact of agronomic management practices on quality and productivity of fodder crops: A Review	2024	Scopus/WOS NAAS 4.84
9.	Ecology Environment and Conservation	The effect of Cowpea intercropping and different fertilizer levels on Nutritional quality of Napier grass	2023	WOS, UGC, NAAS 5.05
10.	Agricultural Reviews	Impact of nutrients on the development and yield of fodder maize (*Zea mays* L.): A Review	2023	Scopus/WOS NAAS 4.84

Book Chapter

S. No	Title	Year
1	Role of micro biota in composting.	2025

PAPER PRESENTED/ CONFERENCE

S. No.	National/ International	Title of seminar /workshop/conference	Year	Place	Title of the paper presented& Author
1.	International	Advances in Agriculture Technology and Allied Sciences	2024	SAAS, West Bengal	Manisha Chaudhary, Dr. Ujagar Singh Walia Role of planting patterns and weed control methods on growth and development of fennel.
2.	International	Recent trends in Smart and Sustainable Agriculture for Food and Nutritional Security	2024	LPU, Phagwara	Manisha Chaudhary, Dr. Ujagar Singh Walia Response of fennel (*Foeniculum vulgare* Mill.) to nitrogen and FYM in relation to weed control strategies.

Declaration

I hereby declare that the above-mentioned statements are true to the best of my knowledge and belief.

Date: 06-02-2026 MANISHA CHAUDHARY