

Simranjeet Kaur

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EDUCATION

Academic/Degree	University/Board	%age marks obtained	Year of passing
Ph.D. Agricultural Meteorology (Minor subject: Agronomy)	Punjab Agricultural University, Ludhiana, Punjab, India	87.20 %	2026
M.Sc. Agricultural Meteorology (Minor subject: Agronomy)	Punjab Agricultural University, Ludhiana, Punjab, India	81.92 %	2022
B.Sc. Agriculture (Elective subject: Agronomy)	Punjabi University, Patiala, Punjab, India	79.34 %	2019
10+2 (Non-Medical)	Punjab School Education Board	80.66 %	2015
10th	Punjab School Education Board	87.07 %	2013

THESIS/DISSERTATION DETAILS

During M.Sc.- Thesis entitled “**OPRIMIZING SUBSURFACE DRIP IRRIGATION AND FERTIGATION SCHEDULES IN *Bt* COTTON USING CROP SIMULATION MODEL**” under the guidance of Dr. Sudhir Kumar Mishra (currently working as Senior Scientist, ICAR- National Institute of Abiotic Stress Management, Malegaon, Pune, Maharashtra, India).

During Ph.D.- Dissertation entitled “**UNRAVELLING THE SPATIO-TEMPORAL RELATIONSHIPS AMONG CHANGES IN LAND USE/LAND COVER AND METEROLOGICAL PARAMETERS IN PUNJAB**” under the guidance of Dr. Lakhvir Kaur Dhaliwal (currently working as Professor, Punjab Agricultural University, Ludhiana, India).

Experience

S. No.	Designation	Type	Organization	Start	End	Duration
1	Assistant Professor	Regular	Desh Bhagat University, Mandi Gobindgarh, Punjab	2 nd April, 2026	31 st July, 2026	3 months and 29 days

PUBLICATIONS

Dhaliwal L K, Singh D, Kaur J and **Kaur S** (2025) Microclimatic Modifications Through Row Spacing in Raya under Central Punjab Conditions. *J Agric Phys* **25**:175-83.

Kaur S, Mishra S K, Singh K, Pal R K, Gill K K and Kingra P K (2024) Enhancing crop and water productivity of *Bt* cotton (*Gossypium hirsutum*) through drip irrigation and fertigation in semi-arid environments of south-western Punjab. *Ind J Agri Sci* **94**:1195-1200. (Research Paper).

Kaur S, Mishra S K and Pal R K (2026) Optimizing irrigation and fertigation levels to enhance the productivity of cotton through the use of DSSAT-CROPGRO-Cotton model. *Environ Ecol* **44**:247-55.

Kaur S, Mishra S K, Singh K and Pal R K (2026) Dry matter partitioning in cotton under varying irrigation and fertigation regimes in semi-arid Punjab. In Conference: International Conference on Precision Mechanical and Agriculture Solution (ICMAP-2026), held at MRSPTU, Bathinda from 16-17th July, 2026.

Mishra S K, **Kaur S**, Chandran M A and Bal S K (2025) Dynamics of dry spells and their impact on crop productivity. *Ind J Dryl Agric Res Dev* **39**:22-32. (Review Article).

CONFERENCE PROCEEDINGS

- Kaur S**, Mishra S K and Singh K (2021) “Optimizing subsurface drip irrigation and fertigation schedule In *Bt* cotton for higher yield”. Conference paper: Virtual National Conference on “Strategic Reorientation for Climate Smart Agriculture” (V-AGMET 2021) At: Punjab Agricultural University, Ludhiana, Punjab, India Volume:1. (Conference Proceedings).
- Kaur S**, Mishra S K, Singh K, Pal R K, Gill K K and Kingra P K (2024) “Simulating the response of cotton to timing and depth of irrigation water in different irrigation systems using DSSAT-CROPGRO-Cotton model” Conference paper: International Conference on Climate Change & Agroecosystems: Threats, Opportunities & Solutions. (INAGMET-2024) At Banaras Hindu University, UP on 8 to 19 Feb, 2024.
- Kaur S**, Gawai A S and Pal R K (2026) Crop Simulation Models: Concepts and Applications in Agriculture. International Conference on “Viksit Bharat @2047: Multidisciplinary Pathways through Science, Technology, Commerce and Humanities (Online)” organized by Kishan Lal Public College, Rewari on 10-11 April, 2026.

POPULAR ARTICLES

- Kaur S**, Kaur G and Pal R K (2024) Artificial intelligence- Concept and applications. *Just Agriculture*. Pp. 48-51.
- Kaur S**, Singh Y and Pal R K (2023) Climate smart agriculture: A key to sustainability. *AgriGate*. **3**:284-89.
- Prasad V, **Kaur S** and Patel K (2025) Thermal extremes: heat waves- Impacts, critical challenges and sustainable mitigation measures in the agricultural sector. *Agrigate* **5**:553-60.
- Prasad V, Patel K and **Kaur S** (2025) Empowering the marginalized: The role of microfinance in bridging the financial inclusion Gap. *AgriCos e-Newsletter* **6**:38-40.
- Singh Y, **Kaur S** and Pal R K (2023) Wind circulation effects on Indian summer monsoon. *Agrigate* **3**:232-26.
- Kaur S, Gawai A, Mangshatabam A, Kaur J and Kaur N (2026) The right crop at the right time: Secrets to maximizing farm yields. *Sunsine Agric* ISSN:2583-0821, **6**:42-46.

BOOK CHAPTERS

Kaur S, Annie M, Gawai A S and Abonmai T (2026) Conservation Agriculture as a Climate-Smart Strategy for Sustainable Agricultural Development. In Kushwaha S, Kamalvanshi V (Eds.), *Climate Change and Agriculture* (pp. 151-69). AikNik Publications.

Annie M, Gawai A S and Kaur S (2026) Remote Sensing in Precision Agriculture. In Dr. Neeraj Kumar (Ed.), *Current Research in Soil Science* (pp. 145-63). AikNik Publications. ISBN: 978-93-7150-293-1.

Kaur S, Gawai A S and Pal R K (2026) Crop Simulation Models: Concepts and Applications in Agriculture. *Beyond Boundaries: Integrating Science, Technology, Commerce and Humanities*. In: Sh. Rakesh Kumar, Dr. Dinesh Kumar, Dr. Manju Garg and Dr. Anuradha Deepak (pp. 121-36). *Genic Book Publishers*.

Gawai A S, Pal R K, Annie M and Kaur S (2026) Application of GIS, Crop Modeling and Remote Sensing in Yield Estimation. In Nemichandrappa M, Halidoddi R R (Eds.), *Advanced Innovative Technologies in Agricultural Engineering for Sustainable Agriculture*. pp. 117-36. AikNik Publications.

The following publications are under process:

Kaur S, Dhaliwal L K, Biswas B and Majumder A (2026) Multi decadal annual and seasonal variability in vegetation indices using time-series satellite data over Indian Punjab. *Journal of Indian Society of Remote Sensing* (NAAS: 8.10) (Under review).

Kaur S and Dhaliwal L K (2026) Spatio-temporal variability in solar radiation on annual and seasonal basis from 1975-2024 over Punjab State. *Journal of Agricultural Physics* (Status: Submitted).

AWARDS & ACHIEVEMENTS

- Best poster presentation award entitled “Dry matter partitioning in cotton under varying irrigation and fertigation regimes in semi-arid Punjab” authorized by “**Kaur S**, Mishra S K, Singh K and Pal R K” during **international conference on precision**

mechanical and agriculture solutions (ICPMAS-2026), held at Maharaja Ranjit Singh Punjab Technical University, Bathinda, Punjab, India on April 16-17, 2026.

- Best paper award entitled “Exploring relationships between weather variables and seed cotton yield in semi-arid environments of south-west Punjab” authorized by “**Kaur S, Mishra S K, Singh K and Pal R K**” during **National Seminar on “Climate Resilient Agriculture in the Facet of Transition in Agriculture (CRAFT)”** held at Punjab Agricultural University, Ludhiana, India on March 17-18, 2025.
- Best poster presentation award entitled “Simulating the response of cotton to timing and depth of irrigation water in different irrigation systems using DSSAT-CROPGRO-cotton model” authorized by “**Kaur S, Mishra S K and Singh K**” during **international conference on “Climate Change & Agroecosystems: Threats, Opportunities & Solutions (INAGMET-2024)”** held at Banaras Hindu University, Varanasi, Uttar Pradesh, India on February 08-10, 2024.
- University **Merit Certificate** during M.Sc. for obtaining credit point of 8.10 out of 10. (Awarded by Punjab Agricultural University, Ludhiana, Punjab, India).
- University **Merit Fellowship** during Ph.D. for obtaining highest credit points. (Fellowship amount granted by Punjab Agricultural University, Ludhiana, Punjab, India).

OTHER ACHIEVEMENTS

- Participated in Online Quiz on “National Hazards & Disaster Management” during June 2020, organized by CVM, University, Vallabh Vidhyanagar, Anand, Gujarat.
- Participated in International online webinar on “Climate Smart Agriculture” on July 22, 2020, organized by the Centre for Advances Agricultural Science and Technology (CAAST) for Climate Smart Agriculture and Water Management (CSAWM), Mahatma Phule Krishi Vidhyapeeth, Rahuri, Maharashtra, India.
- Participated in the webinar on “How to accelerate Genetic gains in Crop Improvement Programmes?” on 13 June, 2020, organized by NAHEG (ICAR)-CAAST, IARI, New Delhi.

TRAININGS/WORKSHOPS ATTENDED

- Successfully completed 21- days the training on “NGP-DST Winter School on Geospatial Technologies (**Level 1: Spatial Thinking**)” conducted from 20 November 2024 to 10 December 2024 by Punjab Remote Sensing Centre, Ludhiana.
- Participated in one week training program on “Recent Advances and Instrumentation in Agricultural Meteorology” from 26 May to 02 June, 2020, organized by Centre for Advance Agriculture Science and Technology (CAAST) for Digital Farming Solutions for Enhancing Productivity by Robots, Drone and AGV’s (DFSRDA) at VNMKV, Parbhani, Maharashtra.
- Participated in online training programme on “Advanced Agrometeorology Techniques for Climate Smart Agriculture” organized by Centre for Advance Agriculture Science and Technology (CAAST) and Water Management (CAAST-CSAWM), Mahatma Phule Krishi Vidhyapeeth, Rahuri, Maharashtra.

CONFERENCES ATTENDED

- Participated in **Virtual National Conference on “Strategic Reorientation for Climate Smart Agriculture” (V-AGMET 2021)** held at Punjab Agricultural University, Ludhiana, Punjab ON March 17-19, 2021.
- Participated in **International conference on “Climate Change & Agroecosystems: Threats, Opportunities & Solutions (INAGMET-2024)”** held at Banras Hindu University, Varanasi, Uttar Pradesh, India on February 08-10, 2024.
- Participated in **National Seminar on “Climate Resilient Agriculture in the Facet of Transition in Agriculture (CRAFT)”** held at Punjab Agricultural University, Ludhiana, India on March 17-18, 2025.
- Participated in **International conference on “Viksit Bharat@2047-Multidisciplinary Pathways through Science, Technology, Commerce and Humanities”** organized by IQAC & Research Cell, Kishan Lal Public College, Rewari, India in collaboration with Manipal University College Malaysia on April 10-11, 2026.

- Participated in “**International Conference on Precision Mechanical and Agriculture Solutions (ICPMAS-2026)**” organized by Maharaja Ranjit Singh Punjab Technical University, Bathinda, Punjab, India on 16-17 April, 2026

SKILLS

- Can work efficiently in big and small groups.
- Sincere and punctual towards work.
- Excellent technical, analytical and problem-solving skills.
- Passionate to work for farmers welfare.
- Well known to MS-Excel and Power point.
- Well known to crop data analysis software's like CPCS1, OPSTAT etc.
- Well known to various crop simulation models like DSSAT, APSIM, FAO-Et calculator etc.
- Well known to remotes sensing software's like ArcGIS, ERDAS etc.
- Known to R language.
- Teaching and mentoring skills

INTERESTS

- Research work
- Teaching
- Crop modelling
- Crop production and management
- Remote sensing

LANGUAGES

- English, Punjabi and Hindi.

ADDRESS

V.P.O. Thathi Bhai, Dist. Moga, Teh. Baghapurana, Pincode-142029, Punjab (India).