



DIVYA BHARTI

PERSONAL INFO

Date of Birth: 02 January 1998

Gender: Female

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 Ludhiana, India

Languages: English, Hindi and
Punjabi

SKILLS

- **Research & Experimental Design:** End- to- end planning and execution of research projects in insect population dynamics, pest surveillance, and life-table analysis
- **Scientific Writing & Publications:** Preparation of research proposals, technical reports, theses, and peer-reviewed manuscripts.
- **Entomological Techniques:** Strong proficiency in field sampling, laboratory rearing, insect identification, and bioassays.
- **Data Analysis & Research Tools:** Advanced use of MS Office and statistical/analytical software including SPSS, WASP, GRAPES, OPSTAT, RStudio and TWO- SEX MS Chart.
- **Communication & Training:** Effective scientific communicator with experience in technical presentations, academic discussions, and training programs.

SUMMARY

Dedicated and research-driven Entomologist with a specialization in Insect Ecology. Possesses a strong foundation in insect behavior, population dynamics and ecological interactions, with hands-on experience in both field and laboratory research. Proven ability to design and conduct studies, analyze ecological data and contribute to scientific publications. Passionate about applying entomological knowledge to address ecological challenges and promote sustainable pest management practices.

EDUCATION

- ★ **Ph.D. Entomology** | 2022–2026
Punjab Agricultural University, Ludhiana, Punjab
OGPA: **8.60/10.00** | Division: **First**
- ★ **M.Sc. (Ag.) Entomology** | 2019–2021
Dr Y.S. Parmar University of Horticulture & Forestry, Nauni, HP
OGPA: **8.31/10.00** | Division: **First**
- ★ **B.Sc. (Hons.) Horticulture** | 2015–2019
Dr Y.S. Parmar University of Horticulture & Forestry, Nauni, HP
OGPA: **8.09/10.00** | Division: **First**

RESEARCH EXPERIENCE

Doctoral Research (2022-2026)

“Development and diapause of zonal populations of *Pectinophora gossypiella* (Saunders) in Bt cotton”

Conducted integrated field and laboratory studies on pink bollworm population ecology, including developmental biology, Bt susceptibility and interzonal hybridization. Assessed temperature and photoperiod dependent diapause induction and termination in various zonal populations and interzonal crosses and examined diapause behaviour under field conditions.

Master’s Research (2019-2021)

“Residue dynamics of chlorpyrifos, cypermethrin and profenofos on cauliflower”

Investigated the dissipation dynamics of chlorpyrifos, cypermethrin and profenofos on cauliflower curds and soil. Examined the half-lives of these test insecticides and the waiting periods. Additionally, various decontamination methods were tested.

PUBLICATIONS

Research papers

- ★ **Bharti D, Katna S, Bhateja S, Dubey J K and Sharma A (2026)** Dissipation Dynamics of Chlorpyrifos, Profenofos and Cypermethrin in Cauliflower Curds and Associated Soil. *Pesticide Res J* 38: 25-31. (NAAS Rating: 5.55)
- ★ **Bhateja S, Dubey J K, Bharti D, Katna S and Sharma A (2023)** Residue Dynamics and Household Decontamination Techniques for Some Non-approved Pesticides on Cabbage Head and Cropped Soil. *Int J Agric Sci* 8: 431-444. (NAAS Rating: 4.03)

ACHEIVEMENTS

- ❖ Received **Prime Minister's Fellowship** for Doctoral Research during Ph.D
- ❖ Awarded with **ASRB ICAR NET 2023**
- ❖ Awarded **Merit Certificates** for Academic Excellence in both B.Sc and M.Sc programs
- ❖ Received **University Merit scholarship** in both B.Sc. and M.Sc. degree

WEBINARS

- One day online International Webinar on "Desert locust *Schistocerca gregaria* (Forsk.) International Scenario and a potential threat to India" organized by National Institute of Plant Health Management, Hyderabad on 2ND July, 2021
- One day online Webinar on "Analysis of Pesticide Residues in Food and Agricultural Commodities" organized by AINP on pesticide residues, ICAR and CAMI, NAHEP-CAAST, AAU, Anand on 27th August, 2021

RECOMMENDATIONS

- Dr. Naveen Aggarwal, Principal Entomologist (Insect Ecology), PAU, Ludhiana; Mob.: +91-9463145100
- Dr. Rishi Kumar, Principal Investigator, CICR-Regional station, Sirsa, Haryana; Mob.: +91-9466375285

Book Chapters

- ✪ Aggarwal N and **Bharti D** (2025) Importance of surveillance and monitoring in pest risk analysis. In: Yadav S, Rolania K, Yadav S S and Kumar D (ed) *Pest Management Interventions in Changing Climate Scenario for Sustainable Agriculture*. pp 225-235. Earth Vision Publications, Gurugram, Haryana. ISBN No.: 978-93-49184-18-3.
- ✪ Aggarwal N and **Bharti D** (2024) Conservation and augmentation of natural enemies of insect pests through ecological engineering. In: Yadav S, Kalkal D, Kumar H and Saini V (ed) *Recent advances in ecofriendly management of crop pests*. pp 65-74. Earth Vision Publications, Gurugram, Haryana. ISBN No.: 978-93-90670-67-3.
- ✪ **Bharti D**, Singh J, Chauhan O, Sachin and Bhateja S (2023) Molecular Approaches in Entomology. In: Neeraj, Patil D and Aditya (ed) *Agriculture Science: Research and Review Volume XIV*. pp 10-19. Bhumi publishing, Maharashtra. ISBN No.: 978-93-88901-39-0.
- ✪ **Bharti D**, Meena M, Saini DK, Bhargav O, Sachin, Bhateja S and Sharma P (2023) Biochemistry and Mode of Action of Behavior Modifying Chemicals. In: Yadav SK, Kumar S, Shakya A, Sahu P and Jaiswal S (ed) *Recent Trends in Plant Protection* pp 13-40. Integrated Publications™, New Delhi. ISBN No.: 978-93-95118-67-5.
- ✪ Saini DK, Bhargav O and Sachin, Bhateja S, Sharma P, **Bharti D**, Meena M (2023) Lac culture: Scope and Importance. In: Yadav SK, Shakya A, Pandey A, Tripathi P and Baruah M (ed) *Compendium of Plant Protection* pp 163-176. Vital Biotech Publication, Kota, Rajasthan. ISBN No.: 978-93-92953-80-4.
- ✪ **Bharti D**, Thakur S and Bhateja S (2022) Insect Resistance to Bt Toxins and Its Management. In: Raju SVS and Sharma K R (ed) *Recent trends in insect pest management* pp 35-62. AkiNik Publications, New Delhi. ISBN No.: 978-93-5570-418-4. DOI: <https://doi.org/10.22271/ed.book.187>

Conclave

- ✪ **Bharti D**, Aggarwal N and Kumar R (2024) Effect of temperature and photoperiod on diapause induction in North Indian population of Pink Bollworm. Virtual Poster presented at 1st Entomology Students Conclave held at University of Agricultural Sciences, GKVK, Bengaluru, Karnataka from 21-23 February, 2024.