

## Curriculum Vitae

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### Objective

To work in an environment of growth and excellence and earn a job which provides me job satisfaction and self development and help me achieve personal as well as organization goals.

### Educational Qualifications

<b>Degree</b>	<b>Year of Passing</b>	<b>Board /University</b>	<b>Percentage</b>
Matriculation	2002	P.S.E.B. Mohali	67.07
10+2 (Medical)	2004	P.S.E.B. Mohali	52.44
B.Sc. (Medical)	2007	Punjabi University, Patiala	54.46
M.Sc. (Zoology)	2009	Punjabi University, Patiala	65.10
Post Graduate Diploma in Computer Applications	2011	Punjabi University, Patiala	68.00
Ph.D. Course work in Zoology	2011	Punjabi University, Patiala	82.00
Certificate course in French (One year part time)	2012	Punjabi University, Patiala	50.00
Post Graduate Diploma in Forensic Science (Distance Education)	2013	Punjabi University, Patiala	64.00
Ph.D. (Zoology)	2015	Punjabi University, Patiala	

### **Work Experience:**

#### Details of experience:

RESEARCH EXPERIENCE: 05 years Research experience

TEACHING EXPERIENCE: 7 years Teaching experience

<b>S. No.</b>	<b>University/Institute</b>	<b>Position</b>	<b>Duration</b>
1.	Department of Zoology and Environmental Sciences, Punjabi University, Patiala	Assistant Professor	18-09-2022 to till date
2.	Department of Higher Education, Punjab	Assistant Professor	02-12-2021 to 17-09-2022
3.	Department of Biology, S.D. College, Barnala	Assistant Professor	02-08-2016 to 02-12-2021
4.	Department of Zoology, Akal University, Talwandi Sabo	Assistant Professor	20-07-2015 to 07-07-2016
5.	Department of Zoology and Environmental Sciences, Punjabi University, Patiala	Senior Research Fellow	24-02-2012 to 05-09-2014
6.	Department of Zoology and Environmental Sciences, Punjabi University, Patiala	Junior Research Fellow	24-02-2010 to 23-02-2012
	<b><u>Areas of Interest</u></b>	Molecular Biology, Entomology, Parasitology, Biosystematics, Bioinformatics, Taxonomy, Biodiversity,	
	<b><u>Topic of Ph.D. Thesis</u></b>	Taxonomic studies on family Noctuidae (Lepidoptera) on North-East India	
	<b><u>Membership</u></b>	Life time Member of <b>Association of Entomologist (Regd.)</b>	

### **AREAS VISITED AND SURVEYED FOR SCIENTIFIC PURPOSE**

The following states have been surveyed for the collection of different insects and to attend various scientific gatherings:

1. Nagaland	6. Mizoram
2. Arunachal Pradesh	7. Sikkim
3. Tripura	8. Assam
4. Meghalaya	9. West Bengal
5. Madhya Pradesh	

### **PERSONAL PROFILE:**

<b>Name</b>	Harkanwal Singh
<b>Father Name</b>	Sh. Harnaib Singh
<b>Mother Name</b>	Smt. Kamaljit Kaur
<b>Date of Birth</b>	17-03-1987
<b>Official Address</b>	Department of Zoology, Punjabi University, Patiala
<b>Permanent Address/Address for Correspondence</b>	Patti Braich, V.P.O. Cheema, Teh. & Dist. Barnala. Pin Code-148103

### **FACULTY DEVELOPMENT PROGRAMME ATTENDED**

- Attended Induction Training Programme at IIT, Bombay from 28 November 2018 to 20 December 2018 under the aegis of the Pandit Madan Mohan Malaviya National Mission on Teacher and Teaching by Government of India.
- Attended online Faculty Development Program on “SYNTHETIC BIOLOGY” organized by Madurai Kamaraj University from 30 November to 04 December 2020 under AICTE Training And Learning (ATAL) Academy.
- Attended online Faculty Development Program on “Earth & Environment Responses During Covid-19” organised by Savitribai Phule University, Pune from 11 July to 17 July 2020.
- Attended online Faculty Development Program on "Computational Synthetic and Systems Biology" organized by IIT, Guwahati from 26 July to 30 July 2021 under AICTE Training And Learning (ATAL) Academy.
- Attend workshop entitled, "KARYASHALA on CRISPR Genome Engineering: Hands-on Training State-of-Art technology" at the Department of Biotechnology, Panjab University, Chandigarh, July 22-29, 2022.

#### ➤ **PUBLICATIONS** (34)

1. Books 02

2. Research papers	<b>26</b>
3. Abstracts	<b>06</b>

## **BOOKS**

1. Harkanwal Singh and Shipali Rani (2015) Environmental laws of India. *Create Space Publications, USA*. ISBN: 9781512068474
2. Harkanwal Singh (2017) Hadeninae of North-East India. *Lambert academic publishing, Germany*. ISBN: 9783330082892

## **LIST OF PUBLICATIONS:**

1. Jagbir Singh Kirti and Harkanwal Singh (2013) An inventory of subfamily Catocalinae (Noctuidae: Lepidoptera) from North-East India. *Journal of Applied Biosciences*, 39(1):24-29.
2. Jagbir Singh Kirti, Harkanwal Singh and Navneet Singh (2014) Recharacterization of genus *Ochrotrigona* Hampson (Noctuidae: Lepidoptera). *International journal of Chemical, Biological & Physical Sciences*, 5(1): 498-500.
3. Jagbir Singh Kirti, Harkanwal Singh and Navneet Singh (2014). Genitalic studies on three species of genus *Phlogophora* Treitschke (Lepidoptera: Noctuidae: Hadeninae). *International Journal of Current Research and Academic Review*, 2(12): 42-46.
4. Harkanwal Singh (2014). Description of male and female genitalia of *Euplexia chlorogrammata* Hampson. *International Journal of Multidisciplinary Research and Development* , 1(6): 114-117.
5. Harkanwal Singh and Shipali (2014) Description of female genitalia of *Iambia harmonica* (Hampson). *International Journal of Multidisciplinary Research and Development*, 1(6): 139-141.
6. Harkanwal Singh (2014). External male genitalic structures of *Dierna strigata* (Moore) (Noctuidae: Lepidoptera). *International Journal of Pure and Applied Zoology*, 2(4): 351-353.
7. Harkanwal Singh and Shipali . Genitalia attributes of *Trisuloides caerulea* Butler and first record from North-East India. *Indian Journal of Fundamental and Applied Life Sciences*, 4(4): 100-102.
8. Harkanwal Singh and Shipali (2014) Recharacterization of genus *Trisula* Moore. *Journal of zoology*, 3 (3): 26-27.

9. Harkanwal Singh and Shipali (2014). Studies on male genitalia of a major pest species of genus *Hypena* Schrank. *International Journal of Food, Agriculture and Veterinary Sciences*, 4(3): 36-38.
10. Harkanwal Singh and Shipali (2014). Morphological and genitalic studies of *Ochropleura leucogaster* (Freyer). *Journal of Chemical, Biological and Physical Sciences*, 5(1): 473-477.
11. Shipali and Harkanwal Singh. (2014). Scanning electron microscopy (sem) studies to explore new taxonomic features on the egg of *Anopheles (cellia) annularis* Van der Wulp. *Int. J. Multidis. Res. Develop.*, 1(6): 1-3.
12. Jagbir Singh Kirti, Navneet Singh and Harkanwal Singh (2014). Redescription of genus *Tycracona* Moore. *Journal of Global Biosciences*, 3(7): 1102-1104.
13. Harkanwal Singh (2014). Genitalic attributes of two fruit piercing moths of genus *Plusiodontia* Guenee. *International Journal of Pure and Applied Biosciences*, 2 (6): 74-77.
14. Jagbir Singh Kirti, Harkanwal Singh and Navneet Singh (2014) New records of three species of Nolidae (Lepidoptera: Noctuoidea) from India. *International Journal of Fauna & Biological Studies*, 1(6): 131-134.
15. Jagbir Singh Kirti, Harkanwal Singh and Navneet Singh (2014) Morphotaxonomy of two species of genus *Sarbanissa* Walker (Noctuidae: Lepidoptera). *Journal of Entomological Research*. 38(4): 319-322.
16. Harkanwal Singh (2014). Detailed studies on female genitalia of *Anua mejanesi* (Guenee). *The Journal of Zoology Studies*. 1(6): 50-53.
17. Harkanwal Singh (2014). Genitalic studies of species *Craniophora fasciata* (Moore) (Noctuidae). *International Journal of Advanced Life Sciences*. 7 (4) 1-4.
18. Jagbir Singh Kirti, Navneet Singh and Harkanwal Singh (2014) *Lophoptera hypenistis* (Hampson) (Lepidoptera: Euteliidae) from Mizoram, a new record to India. *National Journal of Life Sciences*. 11(1) 2014: 57-58.
19. Harkanwal Singh (2015). Studies on female genitalia of *Tambana albitessellata* (Hampson). *International Journal of Applied Research*. 1(2): 9-11.

20. Harkanwal Singh (2015). Recharacterization and new distribution of a rare genus *Yerongponga* Lucas. *Entomology and Applied Science Letters*. 2(1):1-2.
21. Jagbir Singh Kirti, Harkanwal Singh and Navneet Singh (2014). Recharacterization of genus *Cyclodes* Guénee (Noctuidae: Lepidoptera). *North Bengal University Journal of Animal Sciences*. 8: 5-7.
22. Harkanwal Singh (2015) Studies on male and female genitalia of *Ctenoplusia fracta* Walker (Noctuidae). *Applied Research Journal*. 1(3):141-144.
23. Harkanwal Singh (2015). Genitalic studies on two species of *Bomolocha* Hübner (Hypeninae: Erebidae). *International Journal of Advanced Life Sciences*.8(3): 258-261.
24. Jagbir Singh Kirti, Navneet Singh and Harkanwal Singh (2015). Three new records of family Noctuidae (Lepidoptera: Noctuoidea) from India. *Prommalia*. 3: 100-104.
25. Jagbir Singh Kirti, Harkanwal Singh and Navneet Singh (2016) Morphotaxonomy of three species of genus *Nacna* Fletcher (Lepidoptera: Noctuidae: Acronictinae). *Indian Journal of Entomology*.78(2):181-183.
26. Jagbir Singh Kirti, Navneet Singh and Harkanwal Singh (2017). Eight new records of family Erebidae (Lepidoptera: Noctuoidea) from India. *Journal of threatened taxa*. 9 (7): 10480-10486.

#### **ABSTRACTS PUBLISHED/POSTER PRESENTED**

1. Abstract entitled, “**Preliminary studies on Family Noctuidae (Lepidoptera) from North-East India**” published in a National Conference on Environment Degradation and its Impact on Mankind held at Department of Zoology, Punjabi University, Patiala, Punjab from 19-20 November, 2010.
2. Abstract entitled, “**Species diversity in family Noctuidae (Lepidoptera) from North-East India**” published in International Conference on Entomology held at Department of Zoology, Punjabi University, Patiala, Punjab from 17-19 February, 2012.
3. Abstract entitled, “**Diversity of Noctuid moths from North-East India**” published in a National Conference on Man and Environment held at Department of Zoology, Punjabi University, Patiala, Punjab from 15-16 October, 2012.
4. Poster presented entitled, “**Systematic studies on Anopheline Diversity from Punjab (Anophelinae: Culicidae)**” in Indian Science Congress Association

- (Patiala Chapter)” held at Punjabi University, held at Punjabi University, Patiala (Punjab) Patiala on 24<sup>th</sup> January, 2013.
5. Paper presented entitled, “ **Species diversity of family Noctuidae (Lepidoptera) from North-East India**” published in National Conference on Insect Diversity and Systematics: Special Emphasis on Molecular Approaches” held at Department of Zoology, Aligarh Muslim University, Aligarh (U.P.) from 28 October, 2013 to 30 October, 2013
  6. Abstract entitled, “ **Taxonomic studies on family Noctuidae (Noctuidae: Lepidoptera) from North-East India**” published in International Conference on Entomology held at Department of Zoology and Environmental Sciences, Punjabi University, Patiala, Punjab from 22-24 February, 2014.

**CONFERENCES / SYMOSIUM/SEMINAR ATTENDED:**

(i)	International	---	<b>02</b>
(ii)	National	---	<b>07</b>

**INTERNATIONAL/ NATIONAL CONFERENCES / SEMINARS/ WORKSHOPS ATTENDED:**

1. Participated in a “**National Conference on Advances in Biological Sciences**” held at **Department of Zoology, Punjab University, Chandigarh** from 30-31 March, 2010.
2. Participated in a “**National Conference on Environment Degradation and its Impact on Mankind**” held at **Department of Zoology, Punjabi University, Patiala (Punjab)** from 19-20 November, 2010.
3. Three day “**Interactive Workshop for Ph.D. Students**” organized by, **UGC Academic Staff College, Punjabi University, Patiala** from 28-07-2011 to 31-07-2011.
4. Participated in a “**International Conference on Entomology**” held at **Department of Zoology & Environmental Sciences, Punjabi University, Patiala(Punjab)** from 17 February, 2012 to 19 February, 2012.
5. Participated in a **National Seminar on “The Environment-A Global Challenge”** held at **D.A.V. College (Lahore) Ambala City**, on 25<sup>th</sup> February, 2012.
6. Participated in a “**National Conference on Man and Environment**” held at **Department of Zoology, Punjabi University, Patiala (Punjab)** from 15 October, 2012 to 16 October, 2012.
7. Participated in a “**Indian Science Congress Assosiation (Patiala Chapter)**” held at **Punjabi University**, held at **Punjabi University, Patiala (Punjab) Patiala** on 24<sup>th</sup> January, 2013.
8. Delivered a planery lecture in “**National Conference on Insect Diversity and Systematics: Special Emphasis on Molecular Approaches**” held at **Department**



- of Zoology, Aligarh Muslim University, Aligarh (U.P.)** from 28 October, 2013 to 30 October, 2013
9. Presented an Invited talk in **“International Conference on Entomology”** held at **Department of Zoology & Environmental Sciences, Punjabi University, Patiala (Punjab)** from 21 February, 2014 to 23 February, 2014.
  10. Attended online workshop on **“Effective and Efficient Online Teaching in the Age of Corona, A Hands On Workshop”** organised by the Teaching Learning Centre (ICT) at IIT Bombay on 17<sup>th</sup> May 2020.
  11. Attended Virtual National Seminar on **“Role of Biodiversity During Covid-19”** organised by PG Government College for Girls-42, Chandigarh on 22<sup>nd</sup> May 2020.
  12. Attended online workshop on **“Prominence of Animals in Research”** organized by IIT, Ropar on 10<sup>th</sup> July 2020.
  13. Attended National Webinar on **“Faunal Diversity of India”** organized by Zoological Survey of India on 19<sup>th</sup> August 2020.