

CURRICULUM VITAE

Full Name : Amandeep Singh
Date of Birth : 12th September 1989
Gender : Male
Religion : Sikh
Nationality : Indian
Marital Status : Single

1. Qualification

Ph.D. in Agriculture Entomology (Apiculture)

1. Completed- May 2023, From Guru Nanak Dev University, Amritsar
2. Thesis topic- “**Heritability Study of Hygienic Behavior Under Different Generations in *Apis mellifera* Linnaeus Colonies**”
3. Cumulative Grade Point Average (CGPA): 7.75

M.Sc. in Entomology (Apiculture)

1. Completed- September 2014, Punjab Agricultural University, Ludhiana
2. Thesis topic -“**Seasonal Biology and Population dynamics of *Tropilaelaps clareae* in *Apis mellifera* Linnaeus colonies**”
3. Cumulative grade point (CGPA): 7.2

B.Sc. (Agriculture) Hons. (Four years degree)

1. Completed- July 2011, Guru Nanak Dev University, Amritsar
2. Percentage Score: 76.1

PATENT GRANTED

1. **One patent granted (in the field of commercial entomology) “ Storage space for agricultural products and seeds with pest killing” (Design No. 332980-001) (Government of India)**
2. **One patent filed (in the field of apiculture) “ A Multi-nucleus for storage of honey bee queens” (Collaboration with Banaras Hindu University (Research University in Varanasi, Uttar Pradesh, India))**

3. Publications Original Research Papers (Published/Accepted)

1. **Singh A.**, Sohal K S, Singh N, Arora S and Fnu S (2023) Cosmopolitan honey bee, *Apis mellifera* as quick and efficient marker of pesticides pollution in environment through RP-HPLC. *Environmental Science and Pollution Research* (Accepted)
2. Kaur G, **Singh A**, Sharma R, Thakur A, Tuteja S, Shyamli and Singh R (2023) Effect of fungicidal contamination on survival, morphology, and cellular immunity of *Apis mellifera* (Hymenoptera: Apidae) *Frontiers in Physiology* (Accepted).
3. Tuteja S, **Singh A**, Kaur G, Shyamli and Singh R (2022) Impact of thiamethoxam, λ -cyhalothrin, fenvalerate and quinalphos on larval survival of honey bee, *Apis mellifera* Linnaeus. *Indian Journal of Entomology*. *Indian Journal of Entomology* 84(1): 49-53.
4. Kaur G, **Singh A** and Singh R (2022) Impact of *Azadirachta indica* on developmental stages of *Apis mellifera* Linnaeus. *Indian Journal of Entomology*. 84(4): 783–787.

5. **Singh A.**, Singh N.D. and Sau S.K. (2021) Current Perspective on optimizing economics of beekeeping in Punjab. *Indian Journal of Ecology* 48(3): 739-744.
6. Mahajan K, Jaskaran, **Singh A**, Thakur A and Singh R (2022) Effect of certain insecticides on survival of tobacco cutworm, *Spodoptera litura* Fabricus (Lepidoptera: Noctuidae) *Uttar Pradesh Journal of Zoology* 43(22): 40-45.
7. **Singh A.**, Mahajan K., Garima and Singh R. (2016) "A Preliminary Report On Diversity of Rhopalocera (Lepidoptera) During Khariff Season From Khalsa College, Amritsar, Punjab, India". *Journal of Experimental Zoology India* 19 (2): 873-877.
8. Chhuneja P.K., **Singh A.**, Singh J. and Choudhary A. (2016) "Post capping time of egg laying by *Tropilaelaps clareae* Delfinado and Baker in the worker and drone brood of *Apis mellifera* L." *Journal of Experimental Zoology India* 19 (1): 435-440.
9. Singh R, **Singh A**, Mahajan J, Singh H and Mahajan K (2018) Study the Physical Parameters of Water Sources, Among Major Four Districts of Punjab. *Environment Conservation* 19(1-2): 135-39.
10. **Singh A.**, Chhuneja P.K., Singh J. and Choudhary A. (2017) Population dynamics of ectoparasitic bee-mite (*Tropilaelaps clareae* Delfinado and Baker) in European honey bee (*Apis mellifera* Linnaeus) colonies in north-western India. *Journal of entomology and zoology studies* 7(1): 976-980.

Papers presented in National and International conferences/ Seminar

10. Singh A. (2021) Nutritional properties of honey and its role in sports activities: a review. International conference on innovative pedagogical approaches for integration of physical education and yogic sciences in teacher education, DAV University, Jalandhar.
11. Singh A. (2021) Untapped economics of beekeeping in India: A review. International conference on sustainable agriculture: Challenges and Opportunities, DAV University, Jalandhar.
12. Singh A. (2023) Anticancer properties of bee venom components against different cancer. National conference on Innovations in Chemicals and Environmental Sciences (ICES-2023): Khalsa College Garhdiwala, sponsored by College Development Council (CDC), Panjab University, Chandigarh.
13. Singh A. (2023) Role of women in beekeeping: a review. National seminar: Khalsa College Garhdiwala, India@75: Status of women in independent India.

Ph.D. papers (Under Review/ In Process)

1. **Singh A.**, Kaur Sohal S., Singh N. (2023) Inheritance and genetic linkage of *Apis mellifera* hygienic behaviour and other traits in spring season. *Animal Behaviour*. (Under Review)
2. **Singh A.**, Singh N., Kaur Sohal., Singh S. and Singh R. (2023) Heredity of *Apis mellifera* hygienic behaviour and their genetic linkage with other traits in the summer season. *Journal of Applied Entomology*. (Under Review)
3. **Singh A.**, Singh N., Singh S., Kaur Sohal S. (2023) Heritability of hygienic behaviour and other colony parameters of *Apis mellifera* l. under four generations in monsoon season. *Oecologia*. (In process)
4. **Singh A.**, Singh N., Singh S., Kaur Sohal S. (2023) Heritability of hygienic behaviour and other colony parameters of *Apis mellifera* l. under four generations in autumn season. *Journal of Ecology*. (In process)
5. **Singh A.**, Singh N.D. and Sau S.K. (2023) Sustainable relationship of stationary and migratory beekeeping in Northwest, India. *Journal of Apicultural Science*. (In process)

Other papers under review

1. Kaur G., **Singh A.**, Sharma R., Dogra S., Tuteja S., Chaudhary A and Singh R (2023) Residue based concentrations of deltamethrin and spinosad impair in survival, morphology and immunity of *Apis mellifera* larvae. *Agricultural Research* (Under Review).

Book (Published)

2. SPIDER IN RICE: A Research Review ISBN: 9789388173179 (Astral International PVT. LTD.) (Published)

Book Chapter (Published)

1. Damini, Kushal Thakur, Kirti Raina, Ruchika Kumari, Palak Thakur, Rohit Sharma, Randeep Singh, **Amandeep Singh** and Ashun Chaudhary (2022) PGPR (Plant Growth Promoting Rhizobacteria) Plant Stress Management”. NOVA Science Publishers, New York, USA.
2. Mahajan K., Singh R., Singh D., **Singh A.** and Singh R. “Quality assessment of different water sources from rural area of Sri Hagobindpur and Gurdaspur of Punjab” in book ‘*Aquatic Science: The Present Scenario*’ (*Water biology*) International Publisher of Progressive Academic Research ISBN: 9789350568880. (Book Chapter Published).

Organize conference/ seminar

1. Organize online National conference as convener of conference; Title : Current constraints in Agriculture & Environment. Organized by Khalsa College Garhdiwala, Hoshiarpur in collaboration with Eternal University Baru Sahib, Himachal Pradesh (30 july, 2021).

Published Abstracts (National and International conferences) (Total 13)

1. Kaur Parmpreet, **Singh* Amandeep** and Randeep Singh (2018) Foraging performance of *Apis mellifera* Linnaeus colonies during autumn season *ZOOCON - 2018 Bridging the gap-biodiversity and human health* (National conference).
2. Singh Manjit, Singh Randeep and **Singh Amandeep** (2018) Impact of physical, chemical and biological management practices on survive of greater wax moth *ZOOCON - 2018 Bridging the gap-biodiversity and human health* (National conference).
3. Singh M., **Singh A.**, Mahajan K and Singh R (2017) Current scenario of greater wax moth *Galleria mellonella* Linnaeus and their management strategies in beekeeping: A Review *ABAS* (National conference).
4. Kaur P, **Singh A.** and Singh R (2017) New non-chemical approaches to control lesser wax moth *Achroia grisella* Fabricus: A Review *ABAS* (National conference)
5. **Singh A.**, Chhuneja PK, Singh J. and Choudhary A (2016). Survival of *Tropilaelaps clareae* in *Apis mellifera* worker brood in its reproductive cycles during the first beekeeping seasons of North India (National conference).
6. **Singh A.**, Chhuneja PK, Singh J. and Choudary A (2016). Population dynamics of *Tropilaelaps clareae* in drone brood of *Apis mellifera* colonies under two bee strength condition (National conference).
7. Singh R., Mahajan K., Singh R. and **Singh A.** (2016) variation of Physio-chemical quality of different ground water source in Nothoke village (District Moga) 19th Punjab Science congress

on influence of Science and Technology on Environment and Human Health, SUS Group of Institution Mohali (Chandigarh) 19th Punjab Science Congress (National conference).

8. Singh D., Singh L., **Singh A.** and Mahajan K. (2016) Physio-Chemical quality of different water sources of Sri Hargobindpur of District Gurdaspur (Punjab) 19th Punjab Science Congress (National conference).
9. Khurana K., **Singh A.** and Singh R. (2016). Impact of Pesticidal Toxicity on Honey Bees: A Review *ICEMCH* (International conference).
10. Garima, Kaur M. and **Singh A.** (2016). A review of cerebral Edema- Its causes and treatments *ICEMCH* (International conference).
11. **Singh A.**, Chhuneja PK, Singh J. and Choudhary A (2016). Reproductive behavior of *Tropilaelaps clareae* Delfinado & Baker infestating *Apis mellifera* Linnaeus (National conference).
12. Chhuneja PK, **Singh A.**, Singh J. and Choudhary A. (2015) Quantification of *Tropilaelaps clareae* live progeny in brood cells at the emergence of worker and drone bees in *Apis mellifera* colonies *NCE*, 123 (National conference).
13. Chhuneja PK, **Singh A.**, Singh J. and Choudhary A. (2014) Egg laying characteristics of *Tropilaelaps clareae* Delfinado & Baker in *Apis mellifera* L. colonies *ISCOMP*, 72 (International conference).

3. Additional qualification tests/ Achievements

1. NET-National Eligibility Test from Agricultural Scientist Recruitment Board (Indian Council of Agricultural Research, New Delhi) qualified during 27, Sep 2014.

As Journal Reviewer

1. International Journal of Tropical Insect Science- **reviewed four papers (Springer)**

4. Teaching Experience = 8 years and 28 days (Out of which 6 years and 9 months inservice Ph.D.)

S.N o.	Experience (months)	Duration	Designation with Department
1.	Fifty-three months	1 Sep 2018 to still working	Assistant Professor, Agriculture (DPI, Punjab State Government in Grant in aided college) (Regular) (A grade by U.G.C.)
2.	Twenty-seven months	10 th Feb, 2016 to 1 Sep, 2018	Assistant Professor, Entomology (Regular) P.G. Department of Agriculture, Khalsa College Amritsar (Autonomous college, A grade by U.G.C.)
3.	Five months	1 st Sep, 2015 to 10 th Feb, 2016	Assistant Professor, Entomology (Adhoc) P.G. Department of Agriculture, Khalsa College Amritsar (Autonomus college, A grade by U.G.C.)
4.	Nine months	8 th August 2014 to 19 th May, 2015	Assistant Professor, Entomology (Adhoc) Department of Agriculture Mata Gujri College, Fatehgarh Sahib (Autonomous college, A grade by U.G.C.).

5. Guided M.Sc. students as a major advisor for their thesis research work

S. No.	Name of Student	Univ Registration No.	Research Thesis Titles

1.	Ms. Gurjot Kaur	2012. K/A.1510	“Impact of various pesticides on development of <i>Apis mellifera</i> Linnaeus”
2.	Ms. Parmpreet Kaur	2012.K/A.1523	“Seasonal impact and population dynamics of foraging behaviour in <i>Apis mellifera</i> Linnaeus colonies”
3.	Ms. Parmeet Kaur	2012. K/A.1572	“To study the effectiveness of different management practices for controlling of lesser wax moth <i>Achroia grisella</i> Fabricus (Lepidoptera: Pyralidae)”
4.	Mr. Karmjit Singh	2016.K/A.2389	“Analysis of heavy metals in honey samples from Malwa Region of Punjab”

6. Duties allotted by state government other than academics

3. Appointed as Presiding Officer for Punjab Vidhan Sabha Elections 2017 with reference/ID No. 3946/02001700100103
4. Appointed as Presiding Officer for the Municipal Corporation and Nagar Pachayat Election 2017, Amritsar

7. Submitted research project for funding/ Extension lectures

1. To Department of Biotechnology, Ministry of Science & Technology **“Insecta are the key bio-indicator and biotechnological approach for measuring and maintaining ecosystem services from dasuya forest division (DFD) Hoshiarpur, Punjab, India”**. Estimated cost Rs 4,77,000.
2. Delivered extension guest lecture on topic “ Water conservation” on 8th October 2021.

8. Workshops/ Trainings (Attended)

1. Six days international workshop on mathematics and statistical tools
2. Beekeeping Training by Department of Agriculture, Punjab (India) from 23/11/2009 to 27/11/2009
3. Mushroom Training by Department of Agriculture, Punjab (India) from 8/12/2009 to 10/12/2009
4. Seven days faculty development program (FDP) on Research Methodology
5. Three days workshop on IQAC and Research Committee

9. Other curricular activities

1. IQAC member of Khalsa College Garhdiwala, Hoshiarpur.
2. **NCC with two camps**
 - a. Ist Camp at S.G.A.D. Khalsa Sen. Sec. School Dhariwal from 08, Sep 2009 to 17, Sep 2009
 - b. IInd Camp at Khalsa College of Nursing, Amritsar from 15, Nov 2010 to 24, Nov 2010
3. **NSS with three camps**
 - a. Ist camp at Villgae Ghanupur Kale, Amritsar from 18, Dec 2008 to 27, Dec 2008
 - b. IInd camp at Village Mahal, Amritsar from 18, Dec 2009 to 24, Dec 2009
 - c. IIIrd camp at Village Heir, Amritsar from 23, Dec2010 to 29, Dec2010
4. **Participated in three seminars**
5. **Organized six days rezuvination camp for students**

10. Appointed as external examiner and supervisor

1. **As Supervisor in exam duty**
 - a. May, 2016 at Political Science/ English Department, Khalsa College Amritsar, India
 - b. April, 2016 at Political Science/ English Department, Khalsa College Amritsar, India

2. As External Examiner for Practical Examination of B.Sc. (Agri) Ist and 3rd Sem, at CT Group of Institution on 15 Dec, 2016.
3. Deputy Superintendent during final examination of June, 2022 Panjab University Chandigarh, India.
4. Evaluation duty (final examination, june, 2022, Panjab University, Chandigarh, India).

Declaration

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

Amandeep Singh