Dr. A. H. Barad

M.Sc. (Agri.),
Ph.D. (Agril. Entomology)

Assistant Professor & Head

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Plant protection | Anand Agricultural University, Anand

Anil Barad

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Educational Qualification:

B.Sc. (Agri.): 6.82/10.0 GAU, Junagadh **(Year: 2003)**	**M.Sc. (Agri.):** 7.57/10.0 JAU, Junagadh **(Year: 2006)**	**Ph.D.:** 7.77/10.0 JAU, Junagadh **(Year: 2010)**	**ICAR NET** Qualified **(Year: 2008)**

Title of M.Sc. thesis: "Population Dynamics, Varietal Susceptibility and Chemical Control of Castor Whitefly, *Trialeurodes ricini* (Misra)"

Title of Ph.D. thesis: "Bio-efficacy of *Nomuraea rileyi* (Farlow) Samson against *Helicoverpa armigera* (Hubner) Infesting Pigeonpea"

Employment Record:

Employer/ Department	Designation/ Post held	Period	
Department of Plant Protection, College of Horticulture, Anand Agricultural University	Assistant Professor (Direct selection)	04/02/2013	Cont.

Total Experience in AAU (Teaching, Research & Extension): **12 Years 6 Months**

Awards & Appreciations:

Name of Award	Award Conferred by	Year	Place
Best Ph. D. Research Award	GAAS, Gujarat	2012	Ahmedabad
Best Poster Presentation Award (3rd rank)	4th National Conference on Recent Advances in Agriculture and Allied Science and Environmental Science, Dr. B. V. David Foundation	2022	Chennai
Best Poster Presentation Award (3rd rank)	ISMPP 42nd Annual Conference & National Symposium	2023	Anand
Uttam Lekh Award (2nd rank)	DEE, AAU	2022	Anand
Appreciation for guiding farmers affected by "*TAUKTE*" cyclone	Hon'ble Vice Chancellor sir, AAU	2022	Anand
Appreciation for guiding farmers affected by "*BIPORJOY*" cyclone	Hon'ble Vice Chancellor sir, AAU	2023	Anand
Young Scientist Award -2024	PPAG, Gujarat	2025	Navsari

Publications:

Research papers published in Journals		Paper presented/ published in seminar/ symposium	Popular articles/ Folders/ Bulletins	Book/ book chapters
International	**National**			
25	11	14	42	04

TEACHING & RELATED ACTIVITIES:

Taught different courses to UG & PG students in odd/ even semesters:

UG	1. Fundamentals of Entomology	2+1
	2. Apiculture	0+2
	3. Apiculture, Sericulture and Lac Culture	1+1
	4. Insect pests of Fruit, Plantation, Medicinal and Aromatic Crops	2+1
	5. Insect Ecology and Integrated Pest Management	2+1
	6. Insect Pests of Vegetable, Ornamental and Spice Crops	2+1

PG	1. Pests of Horticultural and Plantation Crops 2. Insect Morphology 3. Immature Stages of Insects 4. Plant Quarantine 5. Insect Pathology	1+1 2+1 1+1 1+1 1+1

Acted as RAWE teacher in RHWE phase programme of 8th Semester B.Sc. Hons. (Horticulture)

PG Research Guidance as Major Advisor:

Degree	As a Major Advisor	
	Completed	Enrolled
Master Degree	05	03
Doctorate Degree	-	01

PG Students Received Best Research/ Thesis Awards:

PG Students	Name of Award	Award Conferred by	Date	Place
Ravi Dodiya	Best Thesis Award (PG)	SABUJEEMA. an International Multidisciplinary e-Magazine	05/09/2022	Odisha
Ravi Dodiya	Best M.Sc. Thesis Award	*Vigyan Varta*	2022	SDAU, Sardarkrushinagar
Abhishek Raval	Best M.Sc. Thesis Award	BACA Alumni Association	25/04/2022	AAU, Anand

RESEARCH & RELATED ACTIVITIES:

List of First Reports of New Insects/ Diseases/ Hosts:

Sr. No.	Name of the First Record	Publication/ Gene Bank Accession No.	Year
1.	Seed Weevil, *Curculio c-album* Fabricius	First report of seed weevil, *Curculio c-album* Fabricius infesting on jamun, *Syzygium cuminii* (L.) Skeels from Gujarat, India	2023
2.	Pteromalid Wasp, *Anisopteromalus calandrae* (Howard)	Report of *Anisopteromalus calandrae* (Howard) (Hymenoptera: Pteromalidae) as a potential biocontrol agent of cigarette beetle, *Lasioderma serricorne* (Fabricius) (Coleoptera: Anobiidae) infesting tobacco seeds under storage condition from Gujarat, India	2022
3.	New Host Plants of rugose spiralling whitefly, *Aleurodicus rugioperculatus* Martin	New host plant records of rugose spiralling whitefly, *Aleurodicus rugioperculatus* Martin (Hymenoptera: Sternorrhyncha: Aleyrodidae) in diverse habitats	2024
4.	Bacteria, *Enterobacter cloacae* causing Soft Rot in Dragon Fruit	NCBI Whole Genome Sequence Accession No. PRJNA1147470	2024

Research Projects:

Dept. Trials	Plan	Collaborative work	Other Agency	Total
13	05	09	02	**29**
Total income generated from the other agencies' projects				**12.26 lacs**

Research Recommendations:

For Farming Community : **08**
Scientific Information : **10**
Associate work in Variety Release : **02**

Year	Recommendations	Title of Recommendation
2016-17	Scientific	Bio-efficacy of different insecticides against mealybug infesting custard apple
		Bio-efficacy of different insecticides against stem borer infesting durum wheat

2017-18	Scientific	Management of citrus gummosis (*Phytophthora citrophthora*)
		Bio-efficacy of insecticidal molecules against cucumber leaf miner, *Liriomyza trifolii* (Burgess)
2018-19	Farming	Effect of different plant spacing on growth and yield of capsicum under open ventilated poly house
2019-20	Farming	Bio-efficacy of agrochemical against bacterial canker (*Xanthomonas axonopodis* pv. *citri*) in citrus
	Variety Released	Evaluation of different guava genotypes (Red flesh GARFG-1, Lal Bahadur)
2020-21	Farming	High density plantation and pruning in guava cv. Alhabad Safeda
	Scientific	Evaluation of insecticides against aphid infesting chrysanthemum
2021-22	Farming	Management of aphid in coriander through insecticidal treatments and biopesticides
		Evaluation of organic inputs against major diseases of turmeric
	Scientific	Bio-efficacy of botanicals against powdery mildew of fenugreek
	Variety Released (endorsed)	Evaluation of different loose flower of chrysanthemum genotypes for yield and growth parameters
2022-23	Scientific	Evaluation of organic inputs against aphid infesting broccoli (*Brassica oleracea* var. *italic* L.)
2023-24	Scientific	Evaluation of eco-friendly inputs against sucking pests of potato
		Bio-efficacy of ready-mix fungicides against powdery mildew of fenugreek
2024-25	Farming	Assessment of crop management modules in okra + cowpea - cabbage + fenugreek intercropping system
	Scientific	Bio-efficacy of ready-mix fungicides against powdery mildew of coriander

EXTENSION & RELATED ACTIVITIES:

Extension activities	Total	Extension activities	Total
Extension lectures (SSK, KVKs, EEI, ATIC, ATMA, IDEA TSP, *Khedut din*)	86	Krushi Mahotsav/ Krushi Mela/ Exhibitions (*kharif* / rabi)	11
Khedut Shibirs	06	Field visit/ Diagnostic team	05
TV talk/ Radio talk	02	Tribal Farmers Training under TSP	02
Guidance and Restoration of Horticultural crops due to *Ttauktae* & *Biporjoy* cyclone at Bhavnagar and Kuchh dist., respectively			02

Research Papers:

Sr. No.	Research Papers	NAAS
1.	**Barad, A. H.**, Kapadia, M. N. and Jethva, D. M. (2014). Natural epizootics of entomogenous fungi *Nomuraea rileyi* (Farlow) Samson on *Helicoverpa armigera* (Hubner) in pigeonpea. *Pestology* Vol. XXXVIII No. 1	2.76
2.	**Barad, A. H.**, Kapadia, M. N. and Jethva, D. M. (2014). Residual toxicity of *Nomuraea rileyi* (Farlow) Samson against *Helicoverpa armigera* (Hubner) on pigeonpea. *International Journal of Plant Protection,* 7(1)	3.15
3.	**Barad, A. H.**, Kapadia, M. N. and Jethva, D. M. (2014). Influence of pesticides on the entomogenous fungus *Nomuraea rileyi* (Farlow) Samson. *International Journal of Agricultural Science*, 10 (2): 600-602.	2.37
4.	**Barad, A. H.**, Jethva, D. M., Balas, T. K. and Chandravadiya, T. K. (2015). Impact of different doses of *Nomuraea rileyi* (Farlow) Samson against *Helicoverpa armigera* (Hubner) on pigeonpea. *Pestology* vol. XXXIX No.12	2.76
5.	**Barad, A. H.**, Jethva, D. M., Chandravadiya, T. K. and Jadav, D. V. (2015). Effectiveness of *Nomuraea rileyi* (Farlow) samson against different developmental stages of *Helicoverapa armigera* (Hubner). *Pestology*, 39(11), 19-22.	2.76
6.	**Barad, A. H.**, Kapadia, M. N. and Jethva, D. M. (2016). Efficacy of bio-agents alone and in combination against *Helicoverpa armigera* in vitro. *Annals of Plant Protection Sciences,* 24 (2): 422-443.	3.65

7.	Dabhi MV and **Barad AH** (2018). Bio-efficacy of seed treatment insecticidal molecules against cucumber leaf miner, *Liriomyza trifolii* (Burgess). *Journal of Entomology and Zoology Studies*, 6(6): 251-255	5.53
8.	Barad AJ, Singh SK, Bhagora GJ and **Barad AH**. (2019). Efficacy of Different Fungicides against *Exserohilum turcicum* Causing Turcicum Leaf Blight Disease in Maize. *International Journal of Current Microbiology and Applied Sciences*, 8(8): 108-114	5.38
9.	Prajapati HN and **Barad AH**. (2020). Management of citrus gummosis caused by *Phytophthora* sp. *The Bioscan*, 15(2): 213-217	5.26
10.	Sapteshwriya SV, **Barad AH** and Chavada KM. (2020). Bio-efficacy of insecticides against mealybug, *Ferrisia virgata* infesting custard apple. *Indian Journal of Plant Protection*, 48(4): 372-377.	5.07
11.	Sapteshwriya SV and **Barad AH**. (2020). Bio-efficacy of biopesticides against mealybug, *Ferrisia virgata* infesting custard apple. *International Journal of Current Microbiology Applied Sciences*, SP(11): 873-878	5.38
12.	**Barad AH**, Dabhi MV, Rathod NK and Prajapati HN. (2020). Bio-efficacy of different insecticides against mealybug infesting custard apple. *International Journal of Current Microbiology Applied Sciences*, 9(9): 1723-1727	5.38
13.	Patel KN, Thumar RK, Mohapatra A, **Barad AH** and Parmar KD. (2021). Bio-efficacy of different biopesticides evaluated against aphids infesting coriander. *International Journal of Current Microbiology Applied Sciences*, 10(3): 2169-2178	5.38
14.	Prajapati HN and **Barad AH**. (2022). Bio-efficacy of agrochemicals against bacterial canker (*Xanthomonas citri* pv. *citri*) in citrus. *The Pharma Innovation Journal*, 11(12), 3978-3983	5.23
15.	Dodiya RD, Bhatt NA, **Barad AH** and Sisodiya DB. (2022). Report of *Anisopteromalus calandrae* (Howard) (Hymenoptera: Pteromalidae) as apotential biocontrol agent of cigarette beetle, *Lasioderma serricorne* (Fabricius) (Coleoptera: Anobiidae) infesting tobacco seeds under storage condition from Gujarat, India. *Insect Environment*, 25 (3), 459-461	-
16.	Dodiya RD and **Barad AH**. (2022). Effectiveness of biopesticides against *Spodoptera litura* infesting groundnut under field condition. *The Pharma Innovation Journal*,11(8), 1601-1605	5.23
17.	Raval AT and **Barad AH**. (2022). Population dynamics of mustard aphid, *Lipaphis erysimi* Kaltenbach infesting radish under middle Gujarat condition. *The Pharma Innovation Journal* ,11(8), 1710-1713	5.23
18.	**Barad AH**, Prajapati HN and Dodiya RD. (2023). Evaluation of different doses of insecticides against aphid, *Macrosiphoniells sanbornii* and coccinellids in chrysanthemum ecosystem. *The Pharma Innovation Journal* ,12(6), 2918-2923	5.23
19.	Italiya JV, Kalasariya RL, Dodiya RD, **Barad AH** and Patel NA. (2023). Economically management of thrips by insecticides in chili under field condition. *The Pharma Innovation Journal* ,12(4), 1371-1374	5.23
20.	Dodiya RD, **Barad AH**, Pathan NP and Raghunanadan BL. (2023). *Trichogramma*: a promising biocontrol agent. *International Journal of Economic Plants* ,10(3), 192-199	4.37
21.	Dodiya RD, **Barad AH**, Italiya JV, Pathan NP and Bhatt NA. (2023). Host suitability of tobacco leaf eating caterpillar (*Spodoptera litura* F.) under laboratory condition. *International Journal of Bio-resource and Stress Management*, 14(8), 1186-1195	5.11
22.	Dodiya RD, Chachpara BA, **Barad AH** and Prajapati HN. (2023). First report of seed weevil, *Curculio c-album* Fabricius infesting on jamun, *Syzygium cuminii* (L.) Skeels from Gujarat, India. *Emergent Life Sciences Research*, 9(2), 3642	5.41
23.	Suthar YM, Prajapati HN, **Barad AH** and Desai SG. (2023). *In-vitro* evaluation of different agrochemicals and medicinal plant extracts against *Xanthomonas citri* pv. *citri* causing citrus canker. *The Pharma Innovation Journal*, 12(12): 3228-3231	5.23
24.	Prajapati HN and **Barad AH** (2023). Effect of hot water treatment on papaya fruit peel infected with fruit rot (*Colletotrichum domatium*). *The Pharma Innovation Journal*, 12(12): 1125-1127	5.23
25.	Suthar YM, Prajapati HN, **Barad AH** and Desai SG. (2023). Isolation, pathogenicity and identification of *Xanthomonas citri* pv. *citri* causing citrus canker disease in	5.23

	Gujarat. *The Pharma Innovation Journal*, 12(12): 3183-3188	
26.	Dodiya RD, **Barad AH**, Italiya JV and Prajapati HN (2024). Impact of Weather Parameters on Population Dynamics of Tobacco Leaf Eating Caterpillar, *Spodoptera litura* (F.) Infesting Groundnut. Environment and Ecology, 42(1A): 301-306	4.87
27.	Prajapati, H.N., **Barad, A.H**. and Patel, J.V. (2024). Bio-efficacy of botanicals against powdery mildew of fenugreek. *Plant Archives.* 24(2): 2396-2400	5.59
28.	Prajapati, H.N., **Barad, A.H.** and Patel, J.V. (2024). Bio-efficacy of ready mix fungicides against powdery mildew of fenugreek. *International Journal of Advanced Biochemistry Research.* 8(8): 755-759	5.29
29.	Dodiya, R.D., **Barad, A.H.** and Italiya, J.V. (2024). Efficacy of insecticides against *Spodoptera litura* (Fabricius) infesting groundnut (*Arachis hypogaea* Linnaeus). *Pesticide Research Journal.* 36(2): 125-129	5.55
30.	**Barad, A.H.**, Prajapati, H.N., Parekh, D.D. and Trivedi, N.P. (2024). Efficacy of organic inputs against aphid, *Lipaphis pseudobrassicae* Davis infesting broccoli. *International Journal of Advanced Biochemistry Research.* 8(7): 92-95	5.29
31.	Akbari, D., Patel, R., **Barad, A.H.** and Mohapatra, A. (2024). Evaluation of different ready-mix insecticides against the insect pest of sesame. *Plant Archives.* 24(2): 2674-2678	5.59
32.	Bhuva, S., Prajapati, H.N., **Barad, A.H.** and Patel, D. (2024). Evaluation of efficacy of fungicides against purple blotch of onion in field conditions. *Plant Archives.* 24(2): 2440-2444	5.59
33.	Dodiya, R.D., Haldhar, S.M., Mitra, D. and **Barad, A.H.** (2024). New host plant records of rugose spiralling whitefly, *Aleurodicus rugioperculatus* Martin (Hymenoptera: Sternorrhyncha: Aleyrodidae) in diverse habitats. *Journal of Agriculture and Ecology.* 19: 66-76	4.69
34.	Mathur, K. and **Barad, A.H.** (2024). Unravelling the biology of aphid, *Lipaphis pseudobrassicae* (Davis) infesting broccoli. *Frontiers in Crop Improvement.* 12: 271-274	4.20
35.	Dodiya, R.D. and **Barad, A.H.** (2024). Nature's architects: exploring the biology, behavior, and pollination impact of mason bees. *Acta Scientific Agriculture,* 8(8): 01-04	-
36.	**Barad, AH**, Prajapati, HN, Trivedi, NP and Dodiya RD (2025). Evaluation of Various Combination of Insecticidal Seed Treatments and Biopesticides Foliar Application against Aphid Infesting Coriander. *International Journal of Bio-resource and Stress Management*, 16(4): 01-08	5.40

Book/ Book Chapters Published:

Sr. No.	Title of Book/ Book Chapters
1.	Suthar YM, Patel PB, Prajapati HN and **Barad AH** (2021). Citrus canker: An emerging threat to citrus cultivation. *In* Plant Health management: An insight of conventional and modern approaches. Published by Immortal Publications, Andhra Pradesh
2.	Jyothi N, Prajapati N, **Barad A H**, Maiti C S and Adhikary N K (2022). Major Diseases of Citrus and Their Management. *In* Changing Face of Agriculture, Agri-Business, Agriculture Marketing and Organic Farming- Innovation and Strategies. Published by INSC International Publisher, Michigan, USA.
3.	Vaghasiya R, Prajapati H N, Banik S, Adhikary N K and **Barad A H** (2023). Diseases of Papaya and their Integrated Management. *In* Pests and Disease Management of Horticultural Crops. Published by Biotech Books, New Delhi.
4.	Dodiya RD, Koosi, ST, Chaudhary FK, Patel P and **Barad AH** (2025). CRISPR/Cas9: A New Frontier in Biocontrol Strategies for Insect Pest Management. In Bio-control agents for sustainable agriculture. Published by Springer, Singapore.

Professional Development:

Seminar/ Conference/ Webinar	Workshop	Symposia	Faculty Development Programme	Refresher/ Orientation Courses	Training
41	05	01	01	02	05

CO-CURRICULAR ACTIVITIES:

- ✓ Acted as Assistant Rector of Hostel of Horticulture College (2013-2017)
- ✓ Acted as NSS Programme Officer of College of Horticulture (2013-2017)
- ✓ Acted as Chairman, Students' Representative Council (SRC), College of Horticulture (2017-2020)
- ✓ Acted as Coordinator of ICAR NET Coaching for Agril. Entomology Discipline
- ✓ Acted as Co-Ordinator of Placement Cell of College of Horticulture (2021-2024)
- ✓ Actively contributes to academic journals as a regular reviewer and a member of editorial boards for several NAAS-rated journals
- ✓ Acting as Zonal Co-coordinator of Plant Protection Association of Gujarat (PPAG), Anand (2023 to Cont.)
- ✓ Acting as Rector of Mahatma Gandhi Boys' Hostel, College of Horticulture (2023 to Cont.)
- ✓ Acting as the Head of the Department of Plant Protection, College of Horticulture (2018 to Cont.)
- ✓ Actively contributing as member of different committees formulated by College as well as University level
- ✓ Acted as Convener of Syllabus Formulation of 5th Dean as well as 6th Dean Committee for the Courses of Plant Protection in the Faculty of Horticulture
- ✓ Acting as Associate Editor of *International Journal of Agriculture Sciences* (2022 to Cont.)
- ✓ Acting as Member of Board of Studies for the Faculty of Horticulture (2020 to Cont.)

Life Membership:

1. Plant Protection Association of Gujarat (PPAG)
2. The Gujarat Association of Agricultural Sciences (GAAS)
3. *Bagayat Vikas Parishad*
4. Association for Advancement of Pest Management In Horticultural Eco-Systems (AAPMHE)
5. *Vigyan Gurjari*