

## CURRICULUM VITAE

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India.

**Residential** : D -2, New Friends' Society, Vanaz corner, Paud Road,  
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**Mobile No.:** - 09881020969

**Birth date:** March 12<sup>th</sup>, 1967, Age- 55 Yrs.

**Nationality:** Indian

**E-mail ID:** gnivedita\_ghayal@rediffmail.com

**Educational Qualification:** M.Sc., B.Ed., SET, Ph.D

**Experience:** Teaching – Graduate and Post graduate – Around 29 years

Research – 19 years

**Title of Ph.D. thesis** - “Studies on allelopathic potential and biochemical characterization of *Cassia uniflora* and *Synedrella nodiflora*, the dominant invasive weeds from the Campus of Pune University”

**Research Publications – National and International – 33**

**Chapters in the book – 02 – published**

**International Allelopathy conferences attended in India & abroad – 05**

**Other conferences attended - 15**

**Research activities –**

- ❖ Presented papers and posters on weed biology, their allelopathy and physiology in various International and National conferences.
- ❖ **Received and successfully completed a Minor Research Project from UGC** (Government of India) (Amount Rs. 60,000/- ) on Allelopathy from UGC entitled” Allelopathic Effect of Some Weeds on Growth and Physiology of Some Common Vegetable Crops.”
- ❖ **Received a project from BCUD – SPPU** (Amount Rs. 2,50,000/-) on Allelopathy entitled “Screening And Bioprospecting Of Some

Antimicrobial Compounds From Dominant Invasive Weeds Of Pune District”

- ❖ Presently Research recognized guide of SPPU in the field of Environmental sciences.
- ❖ There are **04 students** who are registering under my guidance for Ph.D.

#### **Other activities –**

- ❖ Working as visiting faculty for graduate and postgraduate and Biotechnology and Botany at different colleges in Pune city
- ❖ Undertaking and presently running the projects **on various aspects of Allelopathy (Botany) and Environmental science** for Postgraduate students of Biotechnology, Biodiversity, Microbiology and Analytical and Organic chemistry
- ❖ Worked as a resource person in various workshops, seminars and as a guest speaker in conferences.
- ❖ Member of International Allelopathy Society.
- ❖ Wrote general science articles in Marathi for magazines like Srushtidnyan, Nisargsevak, Poornam Ecovision, Vasantvarsha etc.

**RECEIVED AN AWARD FOR ONE RESEARCH PAPER PUBLICATION From - Department of Environmental Science, Science and Research Branch, Islamic Azad University, Sistan and Baluchestan, Iran**

#### **Guest Lectures / KeyNote addresses delivered –**

1. “Studies On Alleopathic Interactions Of Some Invasive Weeds Of Deccan Plateau” – In One day national Conference on “Advances in Biological Sciences” On 3rd February, 2018 conducted by Rizvi College of Arts, Science & Commerce, Off. Carter Road, Bandra (West), Mumbai-400050, Maharashtra, India
2. “Studies On Alleopathic Interactions Of Some Invasive Weeds Of Deccan Plateau” – In ‘ENDEV 10’ under Environment and Development Series -1, organised by Flora and Fauna Asia Facebook Group, Botany Department, Seva Bharati Mahavidyalaya, Kapgari, Jhargram, West Bengal in collaboration with Drishticon Organization on 05.06. 2021.
3. ‘Eco-friendly botanicals from weeds to control mosquito larva’ under Environment and Sustainable Development: Problems, Prospects and Mitigation-An International Conference (25-27th November, 2021) Organised by Department of Botany, Seva Bharati Mahavidyalaya, Kapgari, Jhargram, W.B., India. Department of Botany, & Department of Zoology, Lalgah Govt. College, Jhargram, W.B., India. In Collaboration with Department of Zoology, Avinashilingam Institute for Home Science and Higher Education for Women (Deemed to be University), Coimbatore, T.N., India.

#### **Worked as Subject expert / Chairperson –**

1. National Conference on Biodiversity Conservation held on 28th to 30th July, 2021 - Worked as Subject expert for paper presentations, Organised by Department of Botany, Seva Bharati Mahavidyalaya, Kapgari, Jhargram, W.B., India. Department of Botany, & Department of Zoology, Lalgah Govt. College, Jhargram, W.B., India.

2. National Conference on Ethnobiology Knowledge and Biodiversity Conservation, 2022 – organised by Department of Botany, GGDC Lalgah, Jhargam, W.B. In Collaboration with Journal Society, IJRD, Kolkata, W.B.
3. National e-Conference under ‘*Biodiversity Building and Natural resource Management (NC BBNRM-2021)*’ on and from 22<sup>nd</sup> December, 2021 to 23<sup>rd</sup> December, 2021 Organised by Botany Departments, Lalgah Govt. College, Jhargam, W.B; Botany Department, Seva Bharati Mahavidyalaya, Kapgari, Jhargam, W.B. and Department of Botany, Zoology & Biochemistry, Biotechnology and Bioinformatics of Avinashilingam University, Coimbatore, Tamil Nadu, India. Worked as expert in Tech Session-I-III.

### Publications By Dr.N.A.Ghayal In Refereed Journals

Sr.No.	Title of the paper	Name of the Journal	ISSN / ISBN No.	Place
1	Phytotoxic effects of <i>Cassia uniflora</i> leaf leachates on germination and seedling growth of radish and mustard. (2007)	Allelopathy Journal 19(2): 361- 372.	0971-4693	India - Rohtak
2	Steam Volatile Components from <i>Cassia uniflora</i> and <i>Synedrella nodiflora</i> by Gas Liquid Chromatography – Mass Spectroscopy (2007)	Journal of Indian Council of Chemists 24(2): 60 -62	0971-5037	India - Agra
3	Studies on Allelochemicals in <i>Synedrella nodiflora</i> and Impact of its Leaf Leachates on Germination and Seedling growth of Radish ( <i>Raphanus sativus</i> ) and Mustard ( <i>Brassica juncea</i> ) – (2007)	Asian Journal of Chemistry 20(8): 6114 - 6120	0970-7077	India Ghaziabad
4	Morphophysiological studies in some invasive weeds from deccan pleateau. (2009)	Journal of Plant interactions – 4(1): 33 – 39.	1742-9145	UK
5	Studies on cytotoxicity of some invasive weeds from Deccan plateau. (2009)	Journal of Cytology and Genetics 11(NS): 81 – 90.	0253-7605	India Bangalore
6	Larvicidal activity of invasive weeds <i>Cassia uniflora</i> and <i>Synedrella nodiflora</i> . (2010)	International Journal Pharma and Bio Sciences. Vol.1/ Issue -3/ Jul-Sep.2010.	0975-6299	India
7	GC-MS Study of Fatty Acids and Esters from <i>Embelia basal</i> (2010)	Journal of Pharmacy Research, 3(11), 2608-2609	0974 - 6943	India
8	Influence of sugarcane monocropping on rhizosphere microflora, soil enzymes and NPK status. (2011)	International Journal of Pharma and Bio Sciences. Vol. 2/ Issue 1/ Jan – Mar	0975-6299	India
9	Effect of chloropyrifos and malathion on antioxidant enzymes in tomato and brinjal. (2011)	International Journal of Pharma and Bio Sciences. Vol. 2/ Issue 2/Apr. – Jun.	0975-6299	India
10	Studies on aerial parts of <i>Artemisia pallens</i> wall. for phenol, flavonoid and evaluation of antioxidant activity. (2011)	Journal of Pharmacy and Bioallied Sciences 3(2): 302-305.	0976-4879	India
11	Antioxidant Capacity Of Leaves And Stem Of <i>Ehretia Laevis</i> . (2011)	International Journal of Pharmacy and Pharmaceutical Sciences. Vol. 3(2).	0975 – 1491	India
12	Phytotoxic effects of leaf leachates of an invasive weed <i>Cassia uniflora</i> and Characterization of its	Research Journal of Pharmaceutical, Biological	0975-8585	India

	Allelochemical. (2011)	and Chemical Sciences. 2(4): 524 – 534.		
13	Impact of Chloropyrifos and Malathion on Fruit Quality and Fruit Nutrients of Tomato and Brinjal. (2012)	Research Journal of Agricultural Sciences, 3(2): 325-329	0976-1675	India J & K
14	Metabolism and soil status under monoculturing of sugarcane.(2012)	Research Journal of Agricultural Sciences3(5): 1133-1139.	0976-1675	India J & K
15	Phytotoxic Effects of Leaf Leachates of an Invasive Weed <i>Synedrella nodiflora</i> and Characterization of its Allelochemical. (2013)	Int. J. Pharm. Sci. Rev. Res., 19(1), 17, 79-86	0976-044X	India Bangalore
16	Beneficial uptake of soil mineral nutrients by invasive weeds towards suppression of phytodiversity. (2013)	Int. J. Pharm. Sci. Rev. Res. 21(2), 06, 27-31	0976-044X	India Bangalore
17	Reduction in cane yield due to metabolic changes under the allelopathic influence of its trash. (2013)	The Journal of Phytochemistry Photon 114 (2013) 201-211	ISJN: 4172-8352	USA
18	Effect of chloropyrifos and malathion on growth parameters in tomato and brinjal. (2013)	Plant Ecophysiology 5: 227-231	ISSN 2008-7861	Iran
19	Effect of Leachates of Alien Weeds on Seed Germination, Seedling Growth and Physiology in Mungbean (2014)	International Journal of Agriculture and Biosciences 3(4):141 - 148 E-ISSN: 2306-3599	P-ISSN: 2305-6622	India J & K
20	GC-MS Analysis of Phytocomponents of Seaweed, <i>Caulerpa racemosa</i> (2014)	International Journal of Pharma Research & Review, Nov; 3(11):39-45	ISSN: 2278-6074	India
21	Studies on Plant Microbes Interactions through Allelopathy (2016)	International Journal of Green and Herbal Chemistry, 5(2): 29 – 38	E-ISSN: 2278-3229	India
22	Phyto-Distribution of Alien Invasive Species in the Campus of Pune University by Using GPS Mapping and their Interaction (2016)	South Asian Journal of Experimental Biology6 (4): 150-157	ISSN: 2230-9799	India
23	Physiological attributes for yield decline in sugarcane Under monoculturing (2017)	International Journal of Recent Scientific Research 8(6): 17666 - 17672	ISSN: 0976-3031	--
24	Effects of alien weeds on photosynthetic efficiency of green gram and mustard (2017)	Current Botany 2017, 8: 136-140	[ISSN: 2220-4822]	UAE
25	Phytotoxic Effects of Leaf Leachates of Invasive Weeds <i>Cosmos sulphureus</i> and <i>Xanthium strumarium</i> on Agricultural Crops (2018)	Biosciences Biotechnology Research Asia, December 2018.Vol. 15(4), p. 821-832 <b>Onl. ISSN:</b> 2456- 2602	<b>Print ISSN:</b> 0973-1245	India
26	Safflower Aphid, Uroleocon Compositae (Theobald) and its management: A review October 2019	IOSR Journal of Agriculture and Veterinary Science (IOSR-JAVS)Volume 12, Issue 10 Ser. II (), PP 29-34 <b>p-ISSN: 2319-2372</b>	<b>e-ISSN:</b> <b>2319-2380,</b>	India, Australia etc.
27.	Are ants always mutualistic? Influence of ants and variation in flowerets of <i>Clerodendrum chinense</i> (2020)	South Asian J Exp Biol; 10 (1): 20-25; 2020 [DOI: 10.38150/sajeb.10(1).p20-25]	ISSN: 2230-9799	India
28	Cladistic Analysis and Comparative Account of Different Invasive Weeds and their Dominance Using Various Bioinformatics Tools (2020)	Biotech.Res.Comm. Vol 13 (2) May-June 2020 Pp-716-726 Online ISSN: 2321-4007 CODEN: BBRCBA	Print ISSN: 0974-6455	Bhopal, India

29	Larvicidal Effects of GC-MS Fractions from Leaf Extracts of <i>Cassia uniflora</i> Mill Non Spreng (2020)	Int. J. Pharm. Sci. Rev. Res., 63(1), July - August 2020; Article No. 25, Pages: 149-155	ISSN 0976 – 044X	India Bangalore
30	Plant botanicals as controlling agents against pest <i>Sitophilus oryzae</i> and <i>Callosobruchus chinensis</i> : A review (2020)	Annals of Plant Sciences Volume 9, Issue 9 (2020) pp. 4009 - 4017	ISSN: 2287-688X	South Korea
31	Influence of an invasive weed <i>Chromolaena odorata</i> on agricultural crops (2020)	International Journal of Ecology and Environmental Sciences 2(4): 472-477 Online ISSN: 2664-7133.	Print ISSN: 2664-7125	India
32	Need for integrated strategies for conservation and management of sacred groves: An overview from Pune district (MS, India)- <b>Chief Editor:</b> A. Biju Kumar, <b>Editors:</b> P.N. Krishnan, A.G. Pandurangan, C.K. Peethambaran, C. Sureshkumar, (2020)	Perspectives on Biodiversity of India : Volume IV Proceedings of the International Biodiversity Congress (IBC 2018), 4-6th October 2018 held at FRI, Dehradun, India) Pages: 449-451	ISBN: 978-81-937930-6-0	India
33	Understanding the Plant Aphid Interaction: A Review (2021) DOI: <a href="http://dx.doi.org/10.24018/ejbio.2021.2.6.294">http://dx.doi.org/10.24018/ejbio.2021.2.6.294</a>	European Journal of Biology and Biotechnology 2(6): 1 - 6	ISSN: 2684-5199	Belgium
34.	Status of Phytoremediation of Domestic Wastewater in India – A Review DOI:10.12691/aees-10-10-1	Applied Ecology and Environmental Sciences, 2022, Vol. 10, No. 10, 595-600	SSN (Print) 2328-3912 SN (Online) 2328-3920	
<b>In Students' Research Journal</b>				
	Synthesis of Silver Nanoparticles by Chemical and Biological Method and Study of Seed Germination	Komal Katare Akash Barik, N.A. Ghayal , M.V. Biware 2017-18.	--	MES' Abasaheb Garware College
	Effect Of Ants On Insect Herbivores And Variation In Number Of Flower Sets On <i>Clerodendrum Chinense</i>	Rupesh Gawade N.A. Ghayal 2017-18.	--	MES' Abasaheb Garware College
<b>General Articles in Magazines</b>				
1	Tanancha Sadupayog	Srishtidnyan Vol 2 Feb. 2018	ISSN No. 2456 – 2114	India
2	Kal-lavya Vanaspati	Srishtidnyan Vol 8 Aug. 2019	ISSN No. 2456 – 2114	India
3	Vanaspati aani aaple Aarogya In Pooramidam	Vol. 2, Issue 11 MARCH-APRIL 2020	--	Pune, India
4	Duniya – Aakramak Vanaspatinchi / Tananchi In Nisargsevak	Vol 2, Apr. 2022 Nisargsevak	--	Pune, India
5	Samasya Tananchi, Suraksha Sarvanchi In Vasantvarsha	Vol. 18, Oct.- Dec. 2022	ISSN No. 2582-1865	Pune, India
6	Rasayanshastratil Nobel Mankari 2022	Srishtidnyan Vol 12 Dec. 2022	ISSN No. 2456 – 2114	India

