

NAME : DR. INDRA JEET CHAUDHARY

POSITION : Assistant Professor
(Savitribai Phule Pune University, Pune
Maharashtra)



Present Address : Department of Environmental Science, Savitribai Phule Pune University, Pune, Maharashtra

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GoogleScholarProfile:<https://scholar.google.com/citations?user=pCpsm8wAAAAJ&hl=en>

ResearchGate Profile: <https://www.researchgate.net/profile/Indra-Chaudhary-3>

Objective :

Looking for an opportunity to work on an important research work/study in an institution which provides professional development, interesting experiences and personal growth .With my administrative and institutional abilities, I would also work to perform administrative tasks and responsibilities. I would also like to lead students and to participate in doing constructive programs and like to devise captivating, fascinating, and unique practices in research that creates interest in the students.

Educational Qualification:

- **Matriculation** from S.A.B.S.H.S.S. Bajaha Bazar, Siddharthnagar (U.P. Board) in 2003 with 50% (Subjects: Hindi, English, Social Science, Science, Biology, and Mathematics).
- **Intermediate** from B.V.P.I.C. Buddh Nagar Birdpur Siddharthnagar (U.P. Board) in 2005 with 49.8% (Subjects: Hindi, English, Physics, Chemistry, and Biology).
- **B.Sc.** from Mumtaz P.G. College Lucknow Uttar Pradesh, University of Lucknow (University of Lucknow) in 2009 with 46.33% (Subjects: Zoology, Botany, Chemistry).

- **M.Sc.** from Babasaheb Bhimrao Ambedkar University (A Central university) Lucknow, Uttar Pradesh in 2012 with 61.25% (Subjects: Environmental Science).
- **M. Phil.** From Central University of Gujarat, Gandhinagar, Gujarat (2016), with 63% (Subjects: Environmental Science), Topic- “**Effects of suspended particulate matter on foliage of selected plants in Ahmedabad.**”
- **Ph.D.** from Central University of Gujarat, Gandhinagar, Gujarat (March, 2022), Topic- “**Impact Assessment of Ozone Pollution on selected Crop plants of Gujarat.**”

Professional Experience:

1. Working as Assistant Professor at Department of Environmental Science, Savitribai Phule Pune University, Maharashtra-226025, from November 4, 2022 to present.
2. Worked as Project fellow at School of Environment & Sustainable Development, Central University of Gujarat, Gandhinagar, from August 01, 2016 to January 6, 2019.

Fellowship/Honour/Award/Achievements:

- **UGC-Net (Environmental Sciences):** National Eligibility Test For Assistant Professor held on 05th December, 2019 in the subject Environmental Sciences; E- Certificate No.: DEC19U64319; Roll Number: GJ0105204130 (December, 2019)
- **Project fellow:** SERB, New Delhi Funded Project at Central University of Gujarat, Gandhinagar, File No. YSS/2015/000724 (2016-2019).
- **Best poster presentation award:** 9th International Science Congress & Environmental Research (ICER-2018), Amity University Gwalior (Feb, 10, 2018).
- **Young Scientist Award:** International Scientist Awards on Engineering, Science and Medicine Organized by VDGGOOD® Professional Association (December, 2022).

- **Certificate course:** ISRO (Indian Space Research Organization) certificate on “Basics of Remote Sensing, Geographical Information System and Global Navigation Satellite System” conducted by Central University of Gujarat, Gandhinagar from August 21, 2017 to December 04, 2017.
- **Certificate course:** Six month certificate course in Yoga (January-June 2019)
- **Certificate course:** Computer Certificate in CCC from NIELIT
- **Orientation program:** 5 days Orientation program for lab safety measures conducted by school of Nano Sciences at the Central University of Gujarat, Gandhinagar, Gujarat from 19th august 2019 to 23rd august 2019.
- **Peer Reviewer:**
 1. Agricultural Research
 2. International Journal of Ecotoxicology and Ecobiology
 3. Frontiers in Plant Science, section Plant Nutrition
- **Editor:** Journal of Sustainability and Environmental Management
- **Co-convener:** 6th International Conference on “Current Issues in Agricultural, Biological & Applied Sciences for Sustainable Development" during June 11-13, 2022 at Kalimpong Science Centre, Gov. of India, Darjeeling, W.B.
- **International Advisory Board:** Journal of Sustainability and Environmental Management
- **Editorial Advisory:** Annals of Science and Engineering Research (ASER)
- **Life member:** Power Social Entrepreneurships (PSE/2021-22/LM/06)

Extra curriculum activity

- Maharashtra nature park society, online quiz on title “Winter Visitors in Search of Life” on the occasion of World Migratory Bird Day, 9th May 2020.

- Online Orientation Program for Lab Safety Measures- 2020, organised by School of Nano Sciences, Central University of Gujarat, from 15th to 19th December, 2020.
- 7th Annual Sport Meet 2016, Winner position in cricket men's at Central University of Gujarat.
- "Green Audit Rally for Community Sensitization" organized by school of education, central University of Gujarat, under centre for professional development of teacher educators, PMMMMNMTT, MHRD, Govt. of India, at CUG and Amja village, Gandhinagar on 7th September, 2019.
- Yoga fest-2018 on April, 2018, organised by Yoga Club, Central University of Gujarat, took part in Yogasana/ PPT competition.
- 8th Annual Sports Meet 2017, second runner-up position in Kabaddi men's at Central University of Gujarat.

Students Guided

Ph. D. Students : 0

Project Students: (M. Sc.): ~ 4 No.

Technical Skill:

- Ability to work independently and also contribute effectively in a collaborative team environment and handle multiple projects.
- Guided post graduate students in the area of "Environmental Pollution assessment and its effects, Plant stress physiology, Waste water treatment".

Hands on Experience:

- Scanning Electron Microscope
- Atomic Absorption Spectrophotometer
- Microscope
- Inductively Coupled Plasma Optical Emission spectroscopy (ICP-OES)
- UV-Visible Spectrophotometer
- Respirable Dust Sampler

Personal Details:

Date of Birth	5 th July 1987
Father's Name	Sri Makhan Lal Chaudhary
Mother's Name	Mrs. Shanti Devi
Marital Status	Married
Nationality	Indian
Language known	Hindi and English
Postal Address	Village- Parsa, Post- Alidapur, District- Siddhartha Nagar, Uttar Pradesh- 272202.

List of Publication: (22)

Research article

1. **Chaudhary, I.J.**, Nigam, B., Rathore, D., 2023. Effect of elevated ozone on soybean (*Glycine max* L.) cultivar: Role of orange juice and synthetic ascorbic acid. *Nature Environment and Pollution Technology* 22(3). DOI: 10.21203/rs.3.rs-1475945/v1.
2. **Chaudhary I. J.** and Rathore D. 2022. Effects of ambient and elevated ozone on morphophysiology of cotton (*Gossypium hirsutum* L.) and its correlation with yield traits. *Environmental Technology & Innovation*. 25, 102146. <https://doi.org/10.1016/j.eti.2021.102146>. ISSN: 2352-1864. (Impact factor: 5.263).
3. **Chaudhary I. J.** and Rathore D. 2021. Assessment of ozone toxicity on cotton (*Gossypium hirsutum* L.) cultivars: Its defensive system and intraspecific sensitivity. *Plant Physiology and Biochemistry*.166, 912-927. <https://doi.org/10.1016/j.plaphy.2021.06.054>. ISSN: 0981-9428. (Impact factor: 5.437).
4. **Chaudhary I. J.** and Rathore D. 2021. Micro-morphological and anatomical response of groundnut (*Arachis hypogaea* L.) cultivars to ground-level ozone. *J Appl Biol Biotech*. 9 (04) 137-150. DOI: 10.7324/JABB.2021.9419. ISSN: 2347-212X. (Impact factor: 0.86).

5. **Chaudhary I. J.** and Rathore D. 2021. Assessment of dose–response relationship between ozone dose and groundnut (*Arachis hypogaea* L) cultivars using Open Top Chamber (OTC) and Ethylenediurea (EDU). *Environmental Technology & Innovation*, 22, 101494. <https://doi.org/10.1016/j.eti.2021.101494>. ISSN: 2352-1864. (Impact factor: 7.263).
6. Rathore, D. **Chaudhary, I.J.** 2021. Effects of tropospheric ozone on groundnut (*Arachis hypogaea* L.) cultivars: Role of plant age and antioxidative potential. *Atmospheric Pollution Research*. 12(3): 334–348. ISSN: 1309-1042. <https://doi.org/10.1016/j.apr.2021.01.005>. (Impact factor: 4.831).
7. **Chaudhary I. J.** and Rathore D. 2020. Relative effectiveness of ethylene diurea, phenyl urea, ascorbic acid and urea in preventing groundnut (*Arachis hypogaea* L) crop from ground level ozone. *Environmental Technology & Innovation*, 19, 100963. <https://doi.org/10.1016/j.eti.2020.100963>. ISSN: 2352-1864. (Impact factor: 7.758).
8. **Chaudhary, IJ.** and Rathore, D 2019. Dust pollution: Its removal and effect on foliage physiology of urban trees. *Sustainable Cities and Society* (51) 101696. <https://doi.org/10.1016/j.scs.2019.101696>. ISSN: 2210-6707. (Impact factor: 10.696).
9. Rathore, D and **Chaudhary, IJ** 2019. Ozone risk assessment of castor (*Ricinus communis* L.) cultivars using open top chamber and ethylenediurea (EDU). *Environmental Pollution* 244; (2019) 257-269. <https://doi.org/10.1016/j.envpol.2018.10.036>. ISSN: 0269-7491. (Impact factor: 9.988).
10. Shah, KN., **Chaudhary, IJ.**, Rana, DK and Singh, V 2019. Impact assessment of different organic manures on growth, morphology and yield of Onion (*Allium cepa* L.) cultivar. *Asian Journal of Agricultural Research*, 13 (1) 20-27. ISSN 1819-1894. DOI: 10.3923/ajar.2019.
11. **Chaudhary, IJ.**, Singh, V., Rana, DK., Shah, KN 2019. Assessment of Heritability, Genetic Advancement and Yield of Bitter Gourd under Garhwal Region. *International Journal of Science and Research (IJSR)* 8: (2), 205 – 213. <https://www.ijsr.net/archive/v8i2/ART20194963>.

12. Shah, KN., **Chaudhary, IJ.**, Rana, DK and Singh, V 2019. Growth, yield and quality of knol-khol (*Brassica oleracea* var. *gongylodes*) as affected by fertilizer management. *Fundamental and Applied Agriculture*. 4(3) 959–969. ISSN: 2415-4474. 1–11. doi: 10.5455/faa.48471.
13. **Chaudhary, IJ.** and Singh, RP 2018. Studies on Growth, Mobilization of Nutrients and Yield of Wheat (*Triticum aestivum* L. PBW - 343) Applied with Organic Matrix Based Slow Release Bio Fertilizers. *International Journal of Current Microbiology and Applied Sciences*, ISSN: 2319-7706 Special Issue-7 pp. 3221-3238.
14. **Chaudhary, IJ.** and Rathore, D 2018. Phytomonitoring of dust load and its effect on foliar micro morphological characteristics of urban trees. *Journal of Plant Science*. 2: (3), 170 – 179, ISSN: 2456 – 9259.
15. **Chaudhary, IJ.** and Rathore, D 2018. Suspended particulate matter deposition and its impact on urban trees. *Atmospheric Pollution Research* 9; 1072–1082. <https://doi.org/10.1016/j.apr.2018.04.006>. ISSN: 1309-1042. (Impact factor: 4.831).

Review articles:

16. **Chaudhary, I.J.** and Singh, V. (2020). Titanium dioxide nanoparticles and its impact on growth, biomass and yield of agricultural crops under environmental stress: A review. *Research Journal of Nanoscience and Nanotechnology*. 10. 1-8. ISSN 1996-5044. DOI: 10.3923/rjnn.2019.
17. **Chaudhary, I.J.**, Neeraj, A., Siddiqui, M. A. and Singh, V. (2020). Nutrient Management Technologies and the Role of Organic Matrix-Based Slow-Release Biofertilizers for Agricultural Sustainability: A Review. *Agricultural Reviews*. 41(1): 1-13. ISSN :0976-0741.
18. Singh, S., **Chaudhary, I.J.**, Kumar, P. (2019). Utilization of Low-cost Agricultural Waste for Removal of Toxic Metals from Environment: A Review, *International Journal of Scientific Research in Biological Sciences*, Vol.6, Issue.4, pp.56-61, ISSN: 2347-7520. DOI: <https://doi.org/10.26438/ijsrbs/v6i4.5661>.

19. Tiwari, AK., **Chaudhary, IJ.**, Pandey AK., (2019). Indian traditional trees and their scientific relevance. *Journal of Medicinal Plants Studies*; 7(3): 29-32. ISSN: 2320-3862.

Chapters:

20. **Chaudhary, I. J.** and Vedpathak M.M., 2022. Nanotechnology a tool for Sustainable Agriculture against stress: An assessment. In book: *Agriculture Development towards Sustainability* Publisher: Jyotikiran Publication, Pune (International Publication). 1, 78-87. ISBN: 978-93-94819-16-0. DOI: 10.5281/zenodo.7476353.
21. Soni, S., **Chaudhary, I. J.**, Singh, A., Rathore, D., 2021. Acute and Chronic Effects of Ground Level Ozone on Human Health. In book: *Tropospheric Ozone: A Hazard for Vegetation and Human Health*. Cambridge Scholars Publishing, 16, 575-621. ISBN: 1-5275-7057-6.
22. **Chaudhary, I. J** & Soni, S. 2020. Crop Residue Burning and Its Effects on the Environment and Microbial Communities. In book: *Microbes in Agriculture and Environmental Development*. (pp. 87-106). CRC Press. eBook ISBN: 9781003057819. DOI: 10.1201/9781003057819-5.

Oral/Poster presentation in Conferences (*National/International*):

1. Genetic adaptability and yield-related loss of crops under ozone stress at 4th International Conference On “Current Approaches in Agricultural, Animal Husbandry & Allied Sciences for Successful Entrepreneurship (CAAAAHASSE-2021)” 13 March 2021 (**Oral presentation**).
2. Protective role of synthetic and natural ascorbic acid on soybean (*Glycine max. L.*) cultivars at National Conference on Perspective in Natural and Applied Sciences (PNAS 2018), Uttarakhand state council for science & technology (UCOST) Uttarakhand council for biotechnology (UCB), 9-10 March 2018 (**Oral presentation**)
3. Reactive oxygen species production in plants and defensive role of antioxidants under ozone stress at ESW VIII Annual National Research Conference on 30 & 31 Jan., 2021 ‘Anthropogenic Impact on the

Environment, Society and Human health' 31 January 2021 (**Poster presentation**).

4. Tropospheric ozone pollution: Its impact on soil microbe and agricultural productivity at National Conference on Frontier Challenges and Amelioration for Environment and Life Sciences, Department of Botany, Government College, Bichhua Dist. Chhindwara M.P., India. 17 May 2020 (**Poster presentation**).
5. Relative sensitivity assessment of industrial important crops of Gujarat at 5th Asian Air Pollution Workshop in Varanasi, India, 5-7 Nov 2019 At: Varanasi, Uttar Pradesh, India (**Poster presentation**).
6. Relative sensitivity assessment of ozone on groundnut cultivars using OTC and EDU at 9th International Science Congress & Environmental Research (ICER-2018), Amity University Gwalior, India (**Poster presentation, best poster presentation award**).
7. Relative Effectiveness of Ethylenediurea, Phenylurea, Ascorbic Acid and Urea in Preventing Ozone Impact on Growth and Productivity of Groundnut (*Arachis Hypogaea* Linn, GG-20) at International Conference on Advances in Agricultural and Biodiversity Conservation for Sustainable development (ABCD-2017), Merut, India (**Poster presentation**).

Conferences (*National/International*) attended:

1. Webinar on **Recent Trends & Advances in Bioremediation technologies (RTABT-2021)** organised by School of Environment & Sustainable Development, Central University of Gujarat, Gandhinagar, India. Dated 16-17 August, 2021.
2. International Webinar on “**Role of Science and Technology in Global health and Food security**” organized by Zoology & Biotechnology Department and Science Committee, on 1 , 2 & 3 March 2021. ESW Society, Khajuraho, India & ASEA, Rishikesh, India.
3. AWSAR (Augmenting Writing Skills for Articulating Research) Workshop on Popular Science Writing on 23rd Sept. 2019 at Institute of Seismological Research (ISR) Gandhinagar Gujarat, Organised by the

Department of Science and Technology (DST) Government of India and Vigyan Prasar (VP) in collaboration with Gujarat Science and Technology (GUJCOST), Department of Science and Technology, Government of Gujarat.

4. National Seminar on “ **Applied Therapeutic of Yoga Practices**” under Yoga Fest-2019 on March 15, 2019, organized by Yoga Club, Central University of Gujarat, Gandhinagar, Gujarat.
 5. National Workshop on “**Popularization of Remote Sensing Based Maps and Geospatial Information**”, organized by Indian Society of Remote Sensing and Indian Space Research Organization on the eve of National Remote Sensing” Day on August 11, 2017.
 6. National seminar on “**Dr. B. R. Ambedker philosophy in 21st century**” held at CUG, Gandhinagar, Gujarat on 14th – 15th April, 2016.
 7. National seminar (2016) on **strategies for sustainable use of land, water, air, agriculture and energy resources**, Govt. Kalidas Girl Lead College, Ujjain (M. P.), Sponsored by: University grants commission CRO= BHOPAL. (Assessment of SPM Removal Efficiency of Roadside Plants in Various Seasons).
 8. Advance environment in Central University of Gujarat 2015.
 9. GIAN Instrumentation technology & Hazardous Waste Management in Central University of Gujarat, 2015.
 10. The Indian Science Congress Association 14, Dr. Biresh Guha street, Kolkata- 700017 “ 102nd Indian science congress” held at University of Mumbai from January 3 to 7, 2015.
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Declaration:

I hereby declare that all statements made in the above are true, complete, and correct to the best of my knowledge and belief.

Date: 02/04/2023

Place: Pune, Maharashtra

A handwritten signature in blue ink, appearing to read 'Indra Jeet Chaudhary', written in a cursive style.

(Indra Jeet Chaudhary)