

Mr. Aditya Sanjay Mhatre

[M.Sc. Botany, MH-SET (Life Science)]

Designation: Assistant Professor

Department: Biodiversity, Wildlife Conservation and Management

Contact Information

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Educational Background

- Masters in Science (M.Sc.) in Botany, Specialization in Cytogenetics, Plant Biotechnology and Molecular Biology, Mumbai University, 2019
 - Bachelors in Science (B.Sc.) in Botany (with applied component Horticulture), Mumbai University, 2017
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Areas of Expertise / Research Interests

- Plant Taxonomy, Plant Biotechnology, Pharmacology, Molecular Biology, Indoor Gardening – Propagation and Cultivation (orchids), Phycology – Algal taxonomy, ecology and cultivation, Microbiology, Evolution, Butterfly and Avifaunal diversity
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Teaching Interests

- Classical Botany, Applied Botany, Plant Pathology, Biotechnology, Cytology, Ecology, Medicinal Botany, Horticulture, Molecular biology, Energy and mass transfer, Natural Resources, Green technology, Nanotechnology, Eco-toxicology, Organic farming, Standardization, Restoration Ecology, Plant Taxonomy, Plant Adaptations, Introduction to Scientific enquiry and ethics, Plant animal interactions, Natural History, Evolution, Eco Development, Environment Monitoring. Environmental Auditing, Geographical Information System, Biostatistics
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Professional Experience (as of December 2025)

- Total Teaching experience – 7 years (from 2019 to 2025)
 - Assistant Professor (Full time), Department of Biodiversity, Wildlife Conservation and Management (PG), B. N. Bandodkar College of Science (Autonomous), Thane (W); 3 years
 - Assistant Professor (Full time), Department of Environmental Science (PG), B. N. Bandodkar College of Science (Autonomous), Thane (W); 2 years
 - Assistant Professor (Full time and Part time), Department of Botany (UG), B. N. Bandodkar College of Science (Autonomous), Thane (W); 3 years
 - Visiting Faculty (CHB), Department of Botany (PG), Dapoli Urban Bank Senior Science College, Dapoli; 2 years
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Publications & Research (as of December 2025)

- 1) **Design Patent** (437430-001) titled “INDOOR FARM MIRROR FOR SUNLIGHT MANAGEMENT” awarded on 15/11/2024
- 2) **Papers published in peer-reviewed Scientific Journals – 02**
 - Gurav, T., & Mhatre, A. (2022). STUDY OF IMPORTANCE, USAGE AND DISPOSAL OF PPE KITS DURING THE PANDEMIC. JBNB: A Multidisciplinary Journal, Vol 12, ISSN 2454-2776, pg 40 – 48
 - Mhatre, A., & Jamdhade, V. (2020). EFFECT OF ORGANIC FERTILIZERS ON PIGMENT CONTENT AND COOKING TIME OF BHINDI, JBNB: A Multidisciplinary Journal, Vol 9, ISSN 2454-2776, pg 33 - 40
- 3) **Papers presented and published in conference proceedings – 12**
 - Mhatre, A., Ansari, A., Sheth, S., Gaikwad, K., & Kolet, M. SURVEY OF BUTTERFLY DIVERSITY IN EDUCATIONAL AND RECREATIONAL AREAS OF THANE.
Presented and published in proceeding of National Conference on BIODIVERSITY AND SUSTAINABLE DEVELOPMENT Organized by Seth Hirachand Mutha College of Arts, Commerce & Science, Kalyan (2023)
 - Aditya Mhatre, Asba Ansari, Urmila Kumavat, Vinda Manjramkar A REVIEW ON WILDLIFE CONSERVATION PROJECTS FOR THE FLAGSHIP SPECIES OF INDIA International Journal of Advance and Applied Research Impact Factor: 2347-7075, Volume 5 Issue- 41, Page No.: 39-43
National Seminar on Legal Protection and Improvement of the Environment: Challenges and the way forward organised by IQAC of TMC’s Law College; IQAC, Department of Environmental Science and Department of Biodiversity, Wildlife Conservation and Management of B. N. Bandodkar College of Science (Autonomous); and VPM’s Polytechnic on 24th February, 2024 (ISBN - 234500456-6-7 Pp 86-94)
 - NAVIGATING LIFESTYLE CHALLENGES FOR A GREENER ENVIRONMENT- A REVIEW (Abstract available)

National Seminar on Legal Protection and Improvement of the Environment: Challenges and the way forward organised by IQAC of TMC's Law College; IQAC, Department of Environmental Science and Department of Biodiversity, Wildlife Conservation and Management of B. N. Bandodkar College of Science (Autonomous); and VPM's Polytechnic on 24th February, 2024

- EVALUATING THE EFFECTIVENESS OF VARIOUS FRUIT PEEL WASTES IN REMOVING HEAVY METAL (Abstract Available)

One day online National Conference on “Recent Developments in Basic and Applied Science (RDBAS 2024)” organised by Dr. Shantilal Dhanji Devsey Arts, Commerce and Science college, Wada, Palghar

- Nimisha Bane, Pratham Tiwari, Aditya Mhatre (2024), AVIFAUNAL DIVERSITY DURING EARLY SUMMER SEASON AT VPM'S COLLEGE CAMPUS, THANE
Book Title: Mangroves, Biodiversity and Environment Conservation, Publisher: HIMALAYA PUBLISHING HOUSE PVT. LTD. ISBN: 978-93-6557-455-5 Pg. No.: 84 - 91

Poster presented at National Conference on Mangrove, Biodiversity and Environment Conservation organised by M.D. College, at Veermata Jijabai Bhosale Udyan and zoo, Byculla on 24th July, 2024

- Pratham Tiwari, Sadab Khan, Aditya Mhatre, Simeen Rumani, (2024), BEETLES BIODIVERSITY ACROSS DIFFERENT HABITATS OF JAWSAI, AMBERNATH
Mangroves, Biodiversity and Environment Conservation Publisher: HIMALAYA PUBLISHING HOUSE PVT. LTD. ISBN: 978-93-6557-455-5, Pg. No.: 102 - 110
Poster presented at National Conference on Mangrove, Biodiversity and Environment Conservation organised by M.D. College, at Veermata Jijabai Bhosale Udyan and zoo, Byculla on 24th July, 2024

- Swapnali Korade, Vishal Kharivale, Aditya Mhatre, Surabhi Walavalkar-Thosar (2024) COMPARATIVE STUDY OF AVIFAUNAL DIVERSITY BETWEEN THREE LAKES IN THANE
Mangroves, Biodiversity and Environment Conservation, Publisher: HIMALAYA PUBLISHING HOUSE PVT. LTD., ISBN: 978-93-6557-455-5, Pg. No.: 148 - 155

Poster presented at National Conference on Mangrove, Biodiversity and Environment Conservation organised by M.D. College, at Veermata Jijabai Bhosale Udyan and zoo, Byculla on 24th July, 2024

- Tiwari Pratham, Nimisha Bane and Aditya Mhatre (2025), AVIFAUNAL SURVEY OF WETLANDS AROUND THANE: A SUSTAINABLE TOURISM INITIATIVE
Poster presented at National Conference on “Protecting Wetlands for Our Common Future” organized by Paryavaran Dakshata Mandal in collaboration with University of Mumbai, Kalina on 1st February, 2025

- Pratham Tiwari, Aditya Kale, Aditya Mhatre (2025) HOUSEHOLD PESTICIDE PRACTICES: A SURVEY OF USAGE AND HEALTH IMPACTS IN JAWSAI, AMBARNATH

Presented at National Conference on “Eco Pulse: Monitoring Beats of Ecosystem” in collaboration with Thane Municipal Corporation at BN Bandodkar College on 13th and 14th February, 2025

- Swapnali Korade, Aditya Mhatre (2025), BRIDGING KNOWLEDGE SYSTEMS: INTEGRATING INDIGENOUS & SCIENTIFIC APPROACHES FOR WILDLIFE CONSERVATION
Presented at National Conference on “Eco Pulse: Monitoring Beats of Ecosystem” in collaboration with Thane Municipal Corporation at BN Bandodkar College on 13th and 14th February, 2025
- Swapnali Korade, Atharv Chavan, Aditya Mhatre (2025) IMPACT OF POLLUTION ON AVIFAUNAL DIVERSITY: A STUDY OF THREE LAKES IN THANE Poster presented at National Conference on “Protecting Wetlands for Our Common Future” organized by Paryavaran Dakshata Mandal in collaboration with University of Mumbai, Kalina on 1st February, 2025
- Poster presentation, at Picasa III - 360 degree cosmetics, organized by KET Vaze college, Mumbai, 2016 Topic of poster- “PREPARATION AND EVALUATION OF A HERBAL HAIR OIL FORMULATION”

4) **Number of M.Sc. Dissertation projects guided – 22**

5) **Number of Avishkar Projects guided – 02**

6) **Number of non-scientific (article) publications - 06**

Awards & Recognitions

- 1) **Design Patent** (437430-001) titled “INDOOR FARM MIRROR FOR SUNLIGHT MANAGEMENT” awarded on 15/11/2024
- 2) Qualified Maharashtra State Eligibility Test (**SET exam**) 2023 in Life Science
- 3) Qualified Mumbai University PhD Entrance Test (**PET 2024**)
- 4) Qualified **GATE 2020 exam** in Life Science
- 5) **Won 1st prize** in UG category, poster presentation, at Picasa III - 360 degree cosmetics, organized by KET Vaze college, Mumbai
Topic - “Preparation and evaluation of a herbal hair oil formulation”