



Dr. Vinaya Tari
Postdoctoral Fellow, Universitas Airlangga, Indonesia
Environmental Scientist & Research Author

Dr Vinaya Tari is an accomplished environmental scientist and postdoctoral fellow at Universitas Airlangga, Indonesia. With a Ph.D. in Environmental Science from the University of Mumbai and a strong foundation in environmental economics, nanotoxicology, biodegradation, and wetland management, she has emerged as a dynamic researcher and science communicator.

Dr Tari's global collaborations span across countries including Australia, Indonesia, Qatar, Nigeria, and the UK. She has authored and edited several books with international publishers like IGI Global and CRC Press and published over 35 research papers in reputed, Scopus-indexed journals. As an academic editor with PLOS ONE and board member for

various scientific journals, she actively contributes to peer review and publication processes.

She has delivered invited talks, led international conferences, and worked in roles ranging from grant writing to sustainable farming consultancy. Dr Tari is also a recipient of the Young Scientist Award (DERO, India), and accolades recognizing her as an eco-conscious leader and women's empowerment advocate.

Beyond research, she champions causes like the Blue Economy, groundwater justice, and biodiversity conservation. With deep roots in Maharashtra and a global outlook, she continues to bridge science, policy, and sustainability for a greener, equitable future.

Dr Vinaya Tari: A Green Flame of Innovation in Environmental Science

In a world grappling with climate urgency, ecological imbalance, and the imperative of sustainable development, certain voices rise—not with noise, but with consistent work, innovation, and clarity. Among them stands **Dr Vinaya Satyawan Savitri Tari**, a postdoctoral researcher, environmentalist, science communicator, and a relentless champion for a greener, smarter, and more inclusive planet.

Hailing from the Konkan region of Maharashtra and currently contributing to global research in Indonesia, Dr Tari's journey is the embodiment of the aspirations of *Viksit Bharat*—an India that leads with knowledge, cares with compassion, and innovates with sustainability.

A Rooted Journey with a Global Vision

Dr Tari's educational path began with a B.Sc. in Zoology and an M.Sc. in Environmental Science from the University of Mumbai. From early on, her work demonstrated an ecological consciousness—her master's dissertation was completed at the prestigious CSIR–National Institute of Oceanography (NIO), Goa, reflecting a strong foundation in marine and environmental sciences.

She earned her **Ph.D. in Environmental Science** from Mumbai University in 2020, followed by international postdoctoral research at **Universitas Airlangga, Indonesia**, and a key research stint at the **Australian Centre for Sustainable Development Research and Innovation (ACSDRI)**.

Along the way, she has served not only as a researcher but also as an educator, grant writer, mentor, scientific editor, and sustainability consultant. From the classrooms of Chiplun to global panels on green economy and nanotechnology, Dr Tari has let her work speak across borders and disciplines.

Championing Green Science and Blue Economy

With an academic and applied background that spans **environmental economics, plant protection, biodegradation, nanotoxicology, wetland management, and circular and blue economies**, Dr Tari is among a rare breed of Indian scientists who combine fieldwork with futuristic thinking.

Her research focus has evolved with urgency:

- From **pesticide impact** in mango orchards of Ratnagiri,
- To **groundwater justice** in rural Uttar Pradesh,
- To **bioinsecticide development**,
- To **nano-based waste management and eco-friendly energy materials**.

She is the co-editor of cutting-edge books such as "*Novel Energy Storage and Conversion Technologies for Two-Dimensional MXenes and MBenes*" (IGI Global, USA) and upcoming titles under **CRC Press** and **Taylor & Francis**. Her research and editorial contributions have been acknowledged by leading international journals and publishing houses.

At the core of her work lies a commitment to "**green remedies for grey problems**." Whether it's managing marine pollution or decoding eco-legal frameworks, Dr Tari brings to the table not just expertise, but an ecological ethic rooted in justice and accessibility.

A Researcher and a Bridge-Builder

In the complex ecosystem of global research, Dr Vinaya Tari is not just publishing in reputed journals—she's building international collaborations with researchers from **Australia, Indonesia, Taiwan, Turkey, Nigeria, Qatar, Israel, and the Russian Federation**. She has presented at more than **36 conferences and workshops**, acted as a **scientific committee member** in numerous global platforms, and currently serves as an **academic editor at PLOS ONE (USA)** and a **young editorial board member at *Microbial Biotechnology* (Wiley, UK)**.

Her interdisciplinary style has also made her a mentor for early-career researchers, an advisor for green start-ups, and a public speaker on issues like the **blue economy, eco-journalism, environmental law, and the role of women in STEM**.

At the *International Conference on Sustainability* held in Mumbai in 2023, where she served as **conference treasurer and presenter**, Dr Tari emphasized how India's ecological solutions must be "**glocal**"—locally relevant but globally resonant.

Powering Science for Society

Beyond academia, Dr Tari actively contributes to public science. She is associated with:

- **GauEcoGram Agrovikas Pvt. Ltd.**, where she consults on sustainable farming,
- **Expertrons**, as a certified career mentor,
- **Majhi Vasundhara Mitra**, a citizen-led climate initiative by the Government of Maharashtra,
- **IKIGAI – The Art of Living**, Hyderabad, where she bridges science and self-development.

Her articles in newsletters like *The Blue Planet*, *Agriculture and Environment*, and *Agricultural Science and Green Energy* reflect her passion for making science understandable and relevant to farmers, students, and civil society.

From **rainwater harvesting** to **food-water security analysis**, she breaks down complexity and makes knowledge usable. It's this rare blend of scientific depth and communicative clarity that makes her a standout voice in India's science diplomacy landscape.

Recognition and Reverence

Dr Tari's dedication has been recognized through multiple honours:

- **Young Scientist Award** by Deccan Environmental Research Organization (DERO)
- **"Friend of the Blue Planet"** title by ACSDRI, Australia
- **ADAMYA – The Unconquerable Empowering Women Award (2023)**
- **Best Poster Presentation** on World Ozone Day (2009)

But perhaps the most telling recognition is the sheer breadth of her influence—as a contributor, reviewer, editor, organizer, and mentor.

She is also a life member or committee member of over **20 academic and professional bodies**, including **IEEE, YES-Europe, and the Global Professors Welfare Association Forums**.

A Green Star in the Making

Dr Vinaya Tari's story is one of convergence: where environment meets education, where research meets real life, and where a woman scientist from coastal Maharashtra rises to become a global environmental voice.

She is deeply aligned with the spirit of *Viksit Bharat*—where development doesn't come at the cost of the environment, and where every scholar is also a steward.

Her next vision?

To work on integrated sustainability education that begins at the school level and culminates in policy advocacy. To create more opportunities for young scientists from rural India—especially women. And to continue building collaborations that prioritize the **planet before profit**.

Final Reflection

In Dr Vinaya Tari, we witness a rising star who is as rooted as she is radiant. Her science is not just peer-reviewed—it is **people-reviewed**, field-tested, and future-ready. As we envision India@2047, let her story be a reminder: that it is not only the high-tech labs or the urban corridors that define progress—it is the patient, persistent work of green visionaries like Dr Tari that will truly sustain our nation.