




Arunita Banerjee

Kolkata, WB 
+91-8376836146

RESEARCH SCHOLAR | SCIENCE COMMUNICATOR



arunitabanerjee013@gmail.com
ab15ip009@iiserkol.ac.in



arunitabanerjee.com

ARTICLES

Climate change

An ode to the young voices echoing the earth's call for help [Book review of – United we are unstoppable]

The show must go on

Climate change is degrading beautiful, diverse ocean ecosystems into simplified algae carpets: Study

Coronavirus

Mystery thickens over COVID-19's origin; claims of hidden early genetic information attracts further scrutiny

In preparation of post-COVID India, here's who are most vulnerable

Clean Energy

Azure lockdown skies resulted in higher solar power generation, study shows

Is renewable energy the silver bullet to India's electricity woes?

Electrifying the way forward: with multiple policy incentives, June 2021 turns into month of e-mobility for India

Space Tourism

Three Horsemen of Space Tourism—Richard Branson, Jeff Bezos and Elon Musk! What Are the Implications?

Pushing the frontiers of space: Difference between private space flights of Virgin Galactic and Blue Origin

Psychology

The COVID19 lockdown: Our self-induced psychological experiment?

Depression: Drowning in the sea of misery
[Shared by Neucrad Health, India]

Evolution

China's 'dragon man' fossil sheds new light on human-origins; new homo species deemed our closest ancestral relative

Disease Biology

World zoonoses day: learning from past mistakes and prepping for a healthy future

Baseball and malaria keep coming back

Playing rock-paper-scissors with bacteria

Animal Behaviour

How are lockdowns affecting animals around us? This 'dog lab' investigates through citizen science

Following painted lady's trail: 22-year study explains longest insect migration route

Dominance sans aggression
[Shared by Deccan Herald]

Science & Society

Environment

World chocolate day: chocolate and its 'bittersweet' relationship with humans and the environment

News

Nobel in focus 2020

Introducing #WIISER by IISER Kolkata

Mathematician Dr. Neena Gupta shines as the youngest Shanti Swarup Bhatnagar awardee

Investigative story

IISER Kolkata: How Fund Cuts in Scientific Research Are Affecting Staff Workers

Application

Hearing out the deaf: IISc researchers design a smartphone-based therapy and hearing aid

Demographic

Caste discrimination hinders access to information among farmers, finds study

Social networks: Spoilers to the 'surprise' element in election results?

Girls, not brides: Study explores what drives early marriages among girls in India and Ethiopia
[Shared by semonegna.com]

"I intend to build a career in science communication, with emphasis on the science and society paradigm, enabling public engagement and influencing policy changes."

SCIENCE JOURNALISM

CONSULTANT SCIENCE WRITER

(June-July 2021)

The Weather Channel India

- Weather updates from meteorological info
- Cloning wire news
- Writing original articles
- Handling of IBM's content management system

WORKSHOP ORGANIZATION (2021)

Scicomm for Scientists 2021

[Science Communication workshop funded by the Dept. of Science and Technology, Govt. of India]

- Networking with science media personas for logistical organization
- Designing hands-on sessions conducted as a part of the workshop
- Conduction of sessions on editing and the logistics of running a scicomm platform
- Panelist: 'Dejargonizing Science'

SCIENCE POLICY (2020)

Ideathon-'Vision 2040'

Among top ten of a nationwide public consultation process organized by **Science, Technology and Innovation Policy (STIP) 2020 Secretariat**, Office of the Principal Scientific Adviser to the **Govt. of India**

PUBLIC SPEAKING (2020)

Baby steps to a scicomm network

Live talk at **SciComm 2020**, a virtual conference by the **University of Nebraska-Lincoln, United States** discussing a model for emerging scicomm platforms in academia and networking possibilities.

FREELANCE SCIENCE WRITER

(Nov 2018 – present)

- Research Matters
- IndiaBioscience
- Live Wire
- Mongabay India
- The Life Of Science

Job responsibilities

- Writing the initiation proposal and applying for required approvals
- Laying the foundation of the work-pipeline and team expansion
- Logistical organization and streaming of the YouTube channel launch event
- Fact-checking, copy editing and proof-reading final copy of each publication
- Maintaining coordination within team members and the overall working atmosphere
- Execution of all initiatives taken up by the team
- Navigating the general direction and stand of the platform
- Conducting new recruitments, mentoring and guiding new recruits
- Arranging and supervising collaborations with other organisations
- Regulating publicity efforts of the platform

MULTIMEDIA

Scicomm content on YouTube

Understanding the language of dog behaviour [Lightning Talk, Scicomm 2020] ☑

Bonkers scavengers : How the lockdown may induce behavioural changes in scavengers ☑

The COVID19 lockdown: Our psychological experiment ☑

Biggest psychological experiment: The coronavirus lockdown (in Hindi) ☑

SCIENCE OUTREACH

- 21st National Science Exhibition 2017
Central Calcutta Science and Culture Organisation for Youth
- Poster Presentation (In English and Bengali)
- Ambassadors of Evolution workshop 2017
Funded by European Society of Evolutionary Biology (ESEB)
- Designing and conduction of hands-on sessions
- Logistical organization

ACADEMICS

EDUCATION

PhD | July 2018 – present |
(Thesis submitted)
IISER Kolkata
Behavioural patterns of free-ranging dogs

MS | July 2015 - June 2018 |
IISER Kolkata
Biological Sciences
MS Dissertation: *Cognitive abilities and behavioural patterns of free-ranging dogs*

BS | June 2012 - July 2015 |
University of Delhi
Life Sciences

HIGHER SECONDARY | 2012
Jawahar Vidya Mandir, Ranchi

SECONDARY | 2010
Sacred Heart School, Ranchi

Women in Science (at IISERs) Interview series - #WIISER ☑

Coordination and conduction of collaborative interviews over emails

Dr. Koel Das: Into thoughts and beyond

Dr. Anuradha Bhat: The exciting life of a field biologist

Dr. Keerthi Harikrishnan: Building a career around her life

Dr Poonam Thakur: Moving forward, with wisdom from the past

Dr. Anindita Bhadra: Of flawed humans and cultured dogs

Dr. Nisha N. Kannan: Synchronizing work, life and science with time

Dr. R. S. Swathi : Where there is a will, there is a way
Prof. Sumana Annagiri : With curiosity driven science, towards blue-sky research

Dr. Deepshikha Jaiswal Nagar: Solving new challenges on her way, through a noxious work environment

Prof. Jayasri Das Sarma : On training scientific minds and not just hands

TRAINING & NETWORKING (Nov 2018 – present)

- Scicomm 2020, University of Nebraska-Lincoln (virtual conference)
- Science Communication Conclave, 2020, Indian Institute of Technology, Kharagpur
- Science Journalism Workshop for Women in Science (Level I & II), 2018-2019, IISER Pune and British Council, supported by IndiaBioscience
- 9th Annual Science Journalism Workshop, 2019 National Center for Biological Sciences, Bangalore

WORK EXPERIENCE

- Design and conduction of dissertation-oriented research projects
- Working on inter-disciplinary collaborations
- Student mentorship and teaching assistance
- Active participation in all academic and outreach-based initiatives
- Organizational participation in institutional events
- Book-keeping for various lab-based purchases and field expenses
- Designing of lab website

RESEARCH PUBLICATIONS

- **Banerjee, A., Das, N., Dey, R., Majumder, S., Shit, P., Banerjee, A., Ghosh, N. and Bhadra, A., 2021. Power-laws in dog behavior may pave the way to predictive models: A pattern analysis study. Heliyon, p.e07243. ☑**
- **Banerjee, A. and Bhadra, A., 2019. The more the merrier: dogs can assess quantities in food-choice tasks. Current Science, 113891(117), p.6. ☑**
- **Bhattacharjee, D., Dev, N., Gupta, S., Sau, S., Sarkar, R., Biswas, A., Banerjee, A., Babu, D., Mehta, D. and Bhadra, A., 2017. Free-ranging dogs show age related plasticity in their ability to follow human pointing. PLoS one, 12(7), p.e0180643. ☑**

TEACHING ASSISTANCE

- *Evolutionary Biology (Theory), Spring 2017*
- *Evolutionary Biology (Practical), Spring 2018*
- *Biology Lab (Ecology), Autumn 2018*
- *Ecology and Behaviour Lab, Spring 2020*
- *Scientific Communication, Autumn 2020*

ACADEMIC OUTREACH

- 4th National Postdoctoral Symposium, 2021 [Collaboratively organized by NCBS and InStem, Bangalore and Cogito137, IISER Kolkata]
 - Logistical organization
 - Panel moderation – “Transitioning to a career in science communication”
 - Session conduction – “Elevator Pitch”, with Dr. Shannon Olsson, NCBS, Bangalore
- Understanding Behaviour Conference 2019 [Organized by Behaviour and Ecology Group, IISER Kolkata]
 - Logistical organization
 - Introduction of all speakers and Q&A moderation for all sessions
 - Supervision of communication and registration procedures
- Phronesis 2014 [Organized by Department of Zoology, Daulat Ram College, University of Delhi]
 - Logistical organization
 - Supervision of communication and registration procedures
 - Organising head of quiz competition

SKILLS AND ABILITIES

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|-------------------------|----------------------------------|---|
| ✓ Multi-tasking ability | ✓ Virtual workspaces | ✓ Fluent written & verbal communication |
| ✓ Independent working | ✓ Content Management Systems | ✓ Teaching & mentoring |
| ✓ Collaborative working | ✓ Website designing | ✓ Public engagement |
| ✓ Inter-personal skills | ✓ Graphic designing | ✓ Event planning |
| ✓ Quick learning | ✓ Video editing | ✓ Leadership capability |
| ✓ Adaptive | ✓ Social media familiarity | ✓ Outreach coordination |
| ✓ Amicable | ✓ STEM content writing & editing | |

EXTRA CURRICULARS

- Short-film direction:
 - Flight of a Red Kite* 📺, *Tell No One* 📺
- Successfully completed Sandakphu-Gurdum Trekking Expedition (May 2016), Dalhousie Trekking Expedition (Dec 2016) and Meghalaya Trekking and Caving Expedition (Nov 2018) with Youth Hostels Association of India.
- Successfully completed Basic Rock-Climbing Course (Dec 2016) with Climber's Circle, Kolkata.
- Successful participations in National Science Olympiads.
- Created awareness and assisted in raising funds for HelpAge India (Fighting isolation, poverty, neglect).
- Various positions in Debate, Elocution, Quiz and Painting competitions.

COMMUNICATION

English (Advanced) | Hindi (Intermediate) | Bengali (Basic)

ADDITIONAL SCHOOLS

- Evolutionary biology school, 2019 Organized by JNCASR (Jawaharlal Nehru Centre for Advanced Scientific Research), Bengaluru | Funded by Science & Engineering Research Board (SERB), Govt. of India
- Biology of the crocodylia: Models for conservation biology, 2017 Organized by GIAN (Global Initiative of Academic Networks), Ministry of Human Resource Development (MHRD), Govt. of India, at Jiwaji University, Gwalior

CONFERENCES

- Understanding Behaviour Conference 2019 Poster Presentation | IISER Kolkata
- Frontiers in Modern Biology 2018 Poster Presentation | IISER Kolkata
- Student Conference on Conservation Science 2017 Participant | IISc Bengaluru
- Frontiers in Modern Biology 2015 Poster Presentation | IISER Kolkata

TECHNICAL SKILLS

- Programming Language : R ●●○○○○
- Technical Package : StatistixL ●●●●○○
- Basic utilities (Microsoft Office): Word, Excel, Powerpoint ●●●●●●
- Graphics (Adobe): Photoshop, Illustrator, Premiere Pro ●●●●○○
- Operating Systems: Windows ●●●●●●
Ubuntu ●●●●○○

LEADERSHIP AND RESPONSIBILITY

- General Secretary (Academics) of IISER Kolkata (2016-17)
- Class Representative (2012-2013), DRC, University of Delhi
- Academic School Vice-Captain (Std XI) and Head Girl (Std XII) in Jawahar Vidya Mandir
- Senior House Captain (Std IX) and member of Students' Council (Std X), Sacred Heart School

REFERENCES

DR. ANINDITA BHADRA

Associate professor

Behaviour and Ecology Lab, Indian Institute of Science Education and Research (IISER) Kolkata

Email – abhadra@iiserkol.ac.in

SPOORTHY RAMAN

Freelance science writer

Former managing editor

[Research Matters](http://ResearchMatters.in)

Email – spoorthy@qubbilabs.in

PROF. SUBHAJIT BANDYOPADHYAY

Professor

Light Lab, Indian Institute of Science Education and Research (IISER) Kolkata

Email – sb1@iiserkol.ac.in

