

Akash Jaiswal

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Summary

MSc in Environment Management, UGC-NET JRF, currently pursuing PhD from Jawaharlal Nehru University, New Delhi, on investigating the acoustic dimension of singing activity of birds and its application in biodiversity monitoring. Looking for a teaching position in a prestigious university where I can use my skills and experience to teach the subjects of my interest, such as ecology & ecological census techniques, biodiversity conservation & monitoring, bioacoustics & soundscape ecology, statistical analysis & modeling, and remote sensing & GIS applications.

Education

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| PhD in Life Sciences (submission due), Jawaharlal Nehru University, New Delhi, India | 2017 to 2022 |
| • Currently writing research articles and thesis (MPhil course work CGPA 8.25/9). | |
| MSc in Environment Management , GGS Indraprastha University, New Delhi, India | 2009 to 2011 |
| • Graduated with First Division (Cumulative Performance Index 74.91/100). | |
| BSc in Zoology & Chemistry , DDU Gorakhpur University, Gorakhpur, India | 2005 to 2008 |
| • Graduated with First Division (Cumulative Percentage 68.1/100) . | |

Professional Experience

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| TERI School of Advanced Studies , Guest Faculty | New Delhi, India |
| • Taught NRE-151 Wildlife Conservation and Management course to MSc Environmental Studies and Resource Management students. | Aug. 2024 to Dec. 2024 57 hours |
| TERI School of Advanced Studies , Guest Faculty | New Delhi, India |
| • Taught NRE-151 Wildlife Conservation and Management course to MSc Environmental Studies and Resource Management students. | Sep. 2023 to Dec. 2023 36 hours |
| The Rewilders , Research Associate, Part-time | New Delhi, India |
| • Assignments include collaborating with the leadership team to identify relevant questions and determining the best methods of ecological surveys, gathering and analyzing ecological data for baseline surveys for ongoing restoration projects. | March 2022 to present 2 years 9 months |
| Queen Mary University of London , Newton Bhabha Visiting Researcher | London, UK |
| • Project: Development of automated process for detection and identification of bird species in soundscape recordings | Aug. 2019 to Oct. 2019 3 months |
| • Successfully developed and tested a deep learning model to identify and detect the Indian Pitta (Pitta brachyura) calls in recordings from a forest area in Delhi | |
| Jawaharlal Nehru University , Doctoral Researcher | New Delhi, India |
| • Project: Morning acoustic activities in bird communities across different habitats of Delhi | Sep. 2017 to Dec. 2022 5 years 3 months |
| Jawaharlal Nehru University , Junior Research Fellow | New Delhi, India |
| • Project: Ecological role of civets (Family Viverridae) as seed disperser in changing landscapes | July 2016 to July 2017 1 year 1 month |
| Wildlife Institute of India , Junior Research Fellow | Dehradun, India |
| • Project: Distribution and niche characteristics of small carnivores in Bhagirathi River Basin, Western Himalaya | Oct. 2014 to July 2015 10 months |

GGs Indraprastha University, Junior Research Fellow

- Project: Studying the habitat ecology of birds in Desert National Park, Rajasthan

New Delhi, India
July 2012 to July 2014
2 Years one month

Prachi India Pvt. Ltd., Writer and editor

- Work included writing and editing of contents of various textbooks published by the company.

New Delhi, India
Sep. 2011 to June 2012
10 months

WWF-India, Project Trainee

- Conducted research on fuelwood dependence of villages around Suhelwa Wildlife Sanctuary, Uttar Pradesh, for the partial fulfilment of Master's degree.
- Work included primary data collection on the demand, supply and consumption of fuelwood by villagers, followed by data analysis and report writing.

New Delhi, India
Feb. 2011 to July 2011
6 months

WWF-India, Summer Intern

- Conducted research on assessing the ecological status of the Sundarbans in context with biodiversity and climate change using remote sensing and GIS application for the partial fulfilment of Master's degree.
- Work included the acquisition and analysis of freely available satellite data, followed by report writing.

New Delhi, India
May 2010 to June 2010
2 months

Freelance Experience

Bhopal Birds ECS, Biodiversity Data Analyst, Remote, Freelance

- Assignments include analysis of field data collected for biodiversity surveys for birds and butterflies under various ongoing projects by the organization.

Bhopal, India
Feb. 2022 to Apr. 2023
2 years 2 months

Ajaz Environment Consultants, Research Associate, Remote, Freelance

- Project: NEOM Environmental Regional Baseline Surveys
- Assignments included data processing and analysis of marine soundscape data periodically collected at Red Sea for the project, and preparation of periodic reports.

Sharjah, UAE
March 2022 to Aug. 2022
6 months

Area of Expertise

Leadership Experiences

- Scientific consultations for biodiversity and vegetation surveys for Bhopal Birds-ECS and The Rewilders.
- Extensive multidisciplinary collaboration during my doctoral research.
- Report writing (Office, LaTeX), graphic design (Adobe Photoshop and Corel Draw), oral presentation of results and work statement.

Teaching Experiences

- Teaching Wildlife Conservation and Management to MSc students in TERI School of Advanced Studies. 57 hr. Aug. 2024-Dec. 2024.
- Teaching Wildlife Conservation and Management to MSc students in TERI School of Advanced Studies. 36 hr. Sep. 2023-Dec. 2023.
- Teaching about birdsong to MSc students at BVIEER Bird Club, Sep. 2023.

Methods Development

- Developing protocols for wildlife and biodiversity survey in natural area.
- Developing protocols for sound recording in natural area.

- Developing acoustic diversity indices and bioacoustic signal analyses for terrestrial and underwater sound recordings.

Analytic Tools

- Statistical analysis, modeling and data visualization in R (Advanced)
- Bioacoustic/Sound analysis in R, Raven Pro and other softwares (Advanced)
- Remote sensing & GIS in QGIS, ArcGIS and ERDAS IMAGINE (Intermediate)
- Animal density and occupancy modeling in DENSITY and PRESENCE (Basic)
- Programming in Python and MATLAB other than R (Basic)

Field Work Expertise

- Well versed with field data collection, analysis and visual representation of results for ecological monitoring ranging from traditional vegetation and animal surveys to advanced camera trap techniques and acoustic monitoring.
- Volunteered in camera trap survey for Leopard Census in Asola-Bhati Wildlife Sanctuary, Delhi between 2021-2022, conducted by CEC-BNHS, Delhi in association with Department of Forest and Wildlife GNCT of Delhi.
- Volunteered in field survey for Great Indian Bustard (GIB) Census-2014 conducted by Rajasthan Forest Department Wildlife Wing, Jaisalmer and Wildlife Institute of India, Dehradun from March 22 to 26, 2014.
- Volunteered in conducting household survey and PRA for assessing natural resource consumption and utilization in Dudhwa National Park, Uttar Pradesh by WWF-India, New Delhi.

Co-organization of Workshops and Public seminars

- "XXVII International Bioacoustics Congress", University of Sussex, Brighton, UK, 2019.
- "Recent Uttarakhand Disaster: Way Forward", IEEE-Delhi and GGSIP university, October 2013.
- "Natural Resources Conservation: Approaches towards Biodiversity Conservation and Livelihood promotion", GGS Indraprastha University, New Delhi, India, March 2014.

Awards/Fellowships/Grants/Sponsorships

- **Newton-Bhabha Fund UK PhD Placements Programme 2019** to visit and work under supervision of Dr Dan Stowell for three months in Machine Listening Lab at the Centre for Digital Music, Queen Mary University of London, UK on automated bird sound recognition in audio recordings using machine learning techniques.
- **Acoustic Society of America (ASA) Student Sponsorship** to attend and present at the first African Bioacoustics Conference 2018 at the University of Cape Town, South Africa.
- **Bioacoustics Equipment Grant 2018-19** from K Lisa Yang Center for Conservation Bioacoustics, Cornell Lab of Ornithology, Cornell University, Ithaca-NY, USA which provided me with SWIFT recorders on lease to carry out acoustic sampling for my PhD.
- **National Eligibility Test (UGC-NET) for Junior Research Fellowship and Lectureship scheme (Environmental Sciences, June 2013)** and received five year research fellowship from October 2014 to October 2019 under the scheme.
- **GGS Indraprastha University's Indraprastha Research Fellowship (IPRF) 2012** and received research fellowship from July 2012 to July 2014.

Publications

Journal articles

- Singh, M., **Jaiswal, A.**, Ulman, Y., & Kumar, K. (2019). Vocal adjustments in Purple Sunbird (*Cinnyris asiaticus*) at noisy habitats. *Acta Acustica united with Acustica*, 105(2), 294-300.
- **Jaiswal, A.**, & Bhattacharya, P. (2013). Fuelwood dependence around protected areas: A case of Suhelwa Wildlife Sanctuary, Uttar Pradesh. *Journal of Human Ecology*, 42(2), 177-186.

Newsletter

- Prakash, S., Maurya, C. B., Prakash, V., Singh, S., & **Jaiswal, A.** (2022). Butterfly Diversity of Jawaharlal Nehru University Campus, Delhi-India: A long-term pioneer study. "Special issue on butterfly diversity in JNU campus", *ENVIS RP: Geodiversity & Impact on Environment*, 26(4), 2-18.

Books

- Sharma, J.P. & **Jaiswal, A.** (2014). "Prachi Live with Nature: A Book on Environmental Studies". A series of six textbooks from Primer to Class V on Environmental Studies (EVS), Prachi India Pvt. Ltd, New Delhi.

Scientific Conferences

International Conferences

- **Jaiswal, A.**, Oliveira, E.G., Sousa-Lima, R.S., & Kumar, K. (2021). An ecoacoustic study of urban forest landscape of National Capital Region of Delhi. Ecoacoustics Congress, University of Urbino, Urbino, Italy.
- **Jaiswal, A.**, Sousa-Lima, R.S., & Kumar, K. (2019). Pattern and characteristics of avian soundscape in urban greenspaces of Delhi. International Bioacoustics Congress, University of Sussex, Brighton, UK.
- **Jaiswal, A.**, Kumar, K & Goswami, S.K. (2018). Acoustic comparison of avian choruses in urban green habitats of Delhi. African Bioacoustics Community Conference, University of Cape Town, South Africa.

National Conferences

- **Jaiswal, A.** & Kumar, K. (2018). Acoustic characterization of avian dawn chorus in ridge forest of Delhi. National Conference on Recent Advances in Environmental Sciences, Jawaharlal Nehru University, New Delhi, India.
- **Jaiswal, A.**, Bhattacharya, P. & Dookia, S. (2014). GIS based Framework for integrating expert knowledge and stakeholders' preferences in identifying conservation priorities for birds in Desert National Park, Rajasthan. Natural Resources Conservation: Approaches towards Biodiversity Conservation and Livelihood promotion. GGS Indraprastha University, New Delhi, India.

Trainings and Workshops

- **"Winter School on Speech and Audio Processing (WiSSAP)"**. IIT-Mandi. Mandi, Himachal Pradesh, India, January 8-10, 2020.
- **"Bioacoustics Training"**. Cornell Lab of Ornithology-BRP & IISER Tirupati. Tirupati, India, March 14-19, 2019.
- **"Ecoacoustics in nutshell"**. African Bioacoustics Community Conference. University of Cape Town, Cape Town, South Africa, December 7, 2018.
- **"Advance Course on Animal Population Sampling, Modelling and Estimation"**. National Centre for Biological Sciences (NCBS). Bangalore, India, April 20-29, 2015.
- **"Saving sites and species: Policy and advocacy"**. Indian Bird Conservation Network & Bhopal Birds-ECS. Bhopal, India, June 7-8, 2014.
- **"21 days Training Programme on Geospatial Technology & Applications"**. Centre for Disaster Management Studies. GGS Indraprastha University, New Delhi, India, February 4-25, 2013.
- **"Replicating Innovations in Rural Livelihoods"**. Aga Khan Foundation. New Delhi, India, November 6, 2012.

Hobbies/Interests

Photography, Climbing and bouldering, Sound recording & mixing, Bird watching, Hiking & trekking.

Languages

Hindi (Native), English (Fluent).