

Kathan Bandyopadhyay, M.Sc (Age-23)

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Profile:

Research expertise in the field of forest ecology, molecular biology, population modelling, biostatistics and wildlife management. Managing experience plan, executing, reporting, overseen experimental studies in multiple directions. Successful in establishing collaboration with key scientists in the research community. Demonstrator record of accomplishment of excellence. An ecology postgraduate passionate about following a career in interdisciplinary approaches of small cat ecology and ecological modelling.

Education:

M.Sc: University of Reading, UK (2018-2019)

Grade: Distinction.

Subject: Wildlife Management and Conservation.

Thesis title: A study on landscape of fear- responses of introduced grey squirrels to the stipulated presence of predatory species. Supervisor: Dr Philip J. Baker.

B.Sc: Presidency University (erstwhile Presidency College), India (2015-2018)

Grade: 8.65 in 10-point C.G.P.A Scale

Subject: Life Science.

Thesis title: The unforeseen argument behind the human-tiger conflict in Bandhavgarh National Park, Madhya Pradesh, India. Supervisor(s): Dr Subhashis Banerjee & Prof. Kousik Pramanick

Research Experience:

1) *September 2015- May 2017*

Position- Project Assistant

Supervisor- Dr Devashish Sen

Area of Research- A) Ergonomic survey of school bag carriage related stress and collect data on the health status of school children in Ganges Delta & B) Occupation epidemiology in Indian Sunderban.

2) *June 2016- December 2016*

Position- Research Assistant/Intern

Agency- Zoological Survey of India

Area of research- Effect of livestock activity of Western grasslands of Gujrat, India on ecological services including the effect on wading birds of conservation concern.

3) *May 2017-June 2017*

Position- Summer Intern

Supervisor- Dr Vibin Ramakrishnan

Area of research- Structural barcoding, sequence analysis, phylogenetic studies and evolutionary significance of mammalian protein.

4) *September 2017-May 2018*

Position- Research Intern

Supervisor- Prof. Koushik Pramanick

Area of research- Genomic and stable isotopic analysis for dietary separation of mammals.

5) *January 2019- December 2019*

Position- M.Sc. Research Student

Supervisor- Dr Philip J. Baker

Area of research- A) Ecology of fear in the light of introduced grey squirrels to the stipulated presence of predatory species & B) Hedgehog, Rodent movement ecology using tunnel end experiment.

6) January 2020-September 2020

Position- Public Relationship Officer

Agency/NGO- Jalpaiguri Path Society

Area of research- Developing and updating instructional content to meet learning requirements of school students/environment agencies and writing content for magazines, trade journals, newsletters, and blogs for attitude of the local people in conservation decision making and the role of non-governmental organizations.

7) October 2020- Present

Position- Research Intern

Agency- Wildlife Institute of India

Area of research- Movement ecology of Palla's cat, Himalayan marmot and Himalayan wolf in the Ladakh district of Indian Himalayan Region.

Peer-reviewed Publications:

1. *Kathan Bandyopadhyay**, Oil Bulpitt & Bethany Gadd – A Nurture Nature Project: Putting sustainable land Use into Action: Report. Published by Somerset Wildlife Trust in collaboration with University of Reading; May, 2019, Somerset, United Kingdom.
2. Sam Ashby, *Kathan Bandyopadhyay**, Georgia Warren (2020), Manuscript Submitted- 24th August in the journal of Ecology and Evolution. Pre-print and cited as- "Sam Ashby, Kathan Bandyopadhyay, Georgia Warren A review of current and prospective findings concerned with 'Landscape of fear' concept and its implication. Authorea. August 28, 2020. Doi <https://doi.org/10.22541/au.159863183.34096465>"
3. *Kathan Bandyopadhyay**, Prakiti Chandra (2020) A comprehensive review on the effects of Human elephant conflict and the low tech conservation strategies to mitigate the economic loss in the light of movement ecology (Ecology and Conservation Journal, Submitted 28th August)

Conference presentation:

1. Kathan Bandyopadhyay, 2019 *Human-Leopard conflict in the Northern Bengal. Conflict or Coexistence?* International urban wildlife conservation conference (July 2-5, 2019) at the Portland central university, USA.
2. Kathan Bandyopadhyay, Kayleigh Peace and Beth Ellison Pernet, 2019 *Making a World of Difference: How Involving the Public affects the monitoring of wildlife*, Centre of Wildlife Research (CWAC), University of Reading (May 7-8, 2019), UK.
3. Debopriyo Das, Kathan Bandyopadhyay, Debasish Karmakar, 2020, *Tiger- A Spectacular Ecological Bounty of From Nature*, International Webinar (July 29-30,2020), organized by IQAC of Bijoy Krishna Girls' College in collaboration with West Bengal Biodiversity Board.

Awards and Achievements:

- 1) Ranked 17th in the secondary examination, declared by the West Bengal Board of Secondary Examination in the state of West Bengal, India.
- 2) 19th in the Higher Secondary examination (+2 standard), declared by the West Bengal Council of Higher Secondary Examination in the state of West Bengal, India.
- 3) Awarded for the Felix Scholarship at University of Reading, of worth £36000 per annum.
- 4) Awarded for the DST Inspire Scholarship for the excellent result in the 1st year of Bachelor study from Ministry of Human resource and development, Govt. of India.
- 5) Passed B.Sc. with Silver Medal (1st Class 2nd).
- 6) Passed M.Sc. with Gold Medal (1st Class 1st).
- 7) Editor of Presidency University Science Club
- 8) Public engagement and disaster management spokesperson in Jalpaiguri Path Society an NGO based in northern Bengal.
- 9) Completed certification course entitled "Basic of Rescue and Rehabilitation of Freshwater Macro-fauna in Ganga Basin" as a part of the NMCG- WII initiative titled "Planning and Management for Aquatic Species Conservation and Maintenance for Ecosystem Services in the Ganga River Basin for Clean Ganga".

Research grant:

1. Recipient of DST Fast Track Project for Young Scientists (2016) in the project "*Benthic and pelagic life cycles of marine animals*". Total funding amount- \$500.
2. Recipient of DST Fast Track Project for Young Scientists (2017) in the project "*Diversity, conservation and wildlife management initiatives for the south-eastern amphibians*". Total funding amount-\$500.

Laboratory research skills:

PCR, Western Blot, Northern Blot, Southern Blot, genomic DNA isolation, isotopic analysis, Tissue fixation, HE staining, mt-DNA analysis, ELISA, Immunohistochemistry, tetrad analysis, sequence analogy, Real time PCR, Bioinformatics tools etc.

Field research skills:

Vertebrate survey (Urban mammal, large mammal, avian) and techniques, GPS positioning, radio-collar survey, capture-mark-recapture, DNA collection, spat analysis, camera trapping, questionnaire-based social science surveys and playback experiments.

Quantitative Skills:

Applying quantitative skills to process data using R studio, SPSS, GEN STAT. Applying programming skills using MATLAB, Python, C++ and JAVA.

Remote Sensing Skills:

Identification of species rich habitats across Scotland and UK from a combination of multispectral satellite (e.g. from Sentinel-2), UAV imagery, supplemented with LiDAR derived elevation data and climatic information.

Additional Skills: IT Skills: competent user of Microsoft Office Tool Suite, excellent Excel skills.

Immigration Status: Citizenship — India.

Marital Status: Single.

Driving License: Permanent.

Overall GPA- 4 out of 4 (US Scale)

IELTS score- 6.5 (Overall band score)

Academic references:

1) Name: Dr Subhashis Banerjee

Designation: Assistant Research Professor & Co-Director of Metabolic Core

Address: Pharmacol & Physiology Science, Saint Louis University, USA

Relationship: B.Sc Supervisor

Email: subhashis.banerjee@health.slu.edu

Tel: (+1) 314-285-1810.

2) Name: Dr Chris Foster

Designation: Lecturer in Animal Ecology

Address: School of Ecology and Evolutionary Biology. University of Reading, UK.

Relationship: M.Sc Advisor

Email: c.w.foster@reading.ac.uk

Tel: (+44) 0118 378 5092.

3) Name: Dr Manuela Gonzalez-Suarez

Designation: Associate Professor in Ecological Modelling

Address: School of Ecology and Evolutionary Biology. University of Reading, UK.

Relationship: MSc Advisor.

Email: manuela.gonzalez@reading.ac.uk

Tel: (+44) 0118 378 6437.

4) Name: Professor Tom Oliver

Designation: Professor in Ecological Modelling

Address: School of Ecology and Evolutionary Biology. University of Reading, UK.

Relationship: MSc Tutor.

Email: t.oliver@reading.ac.uk