MUHAMMAD ILYAS

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Conservationist to be, interested in finding answers to questions of conservation relevance on vertebrates by combining varying field and modelling approaches.

Education

Master of Science in Applied Data Science

09/2022-

Focus: Ecology and Evolution

UNIVERSITY OF EXTER

Master of Philosophy in Zoology

09/2017-02/2020

Focus: Wildlife Ecology

OUAID-I-AZAM UNIVERSITY ISLAMABAD, PAKISTAN

Thesis: Abundance Estimation of Himalayan Lynx Through Multiple Modelling

Approach

Supervisor: Muhammad Ali Nawaz, Associate Professor

Bachelor of Science, Zoology

09/2013-07/2017

ISLAMIA COLLEGE PESHAWAR, PAKISTAN

Thesis: Molecular Prevalence of HBV in District Bannu, Khyber Pakhtunkhwa Pakistan

Supervisor: Muhammad Zahid, Associate Professor

Research Experience

Research Associate 04/2021-06/2021

SNOW LEOPARD FOUNDATION ISLAMABAD PAKISTAN

• Survey design and implementation

• Management and analysis of field data

• Communication of findings and results with donor agencies

Research Assistant 09/2017-02/2020

CARNIVORE CONSERVATION LAB, DEPARTMENT OF ZOOLOGY, QUAID-I-AZAM UNIVERSITY ISLAMABAD

PAKISTAN

Advisor: Muhammad Ali Nawaz, Associate Professor

- Management and organization of field data
- Report writing

Camera Trap Survey for Mammalian Diversity Assessment 06/2019-08/2019

CHITRAL GOL NATIONAL PARK
Camera Trapping and Genetic Sampling of Carnivores and prey species

11/2018-04/2019

ASTORE VALLEY GILGIT-BALTISTAN

Publications

Younis, M., Ullah, S., Bari, F., Asif, M., **Ilyas, M.**, Rauf, M., Rehman, E. U., Noor, R., Arif, M., & Nawaz, M. A. (2022). Relative Abundance of Mammalian Fauna of Chitral Gol National Park, Pakistan. *Pakistan J. Zool.*, 55: 289-297.

Awards

Green Futures Postgraduate Scholarship

2022

UNIVERSITY OF EXETER

£38,000/-

Workshops, Summer Schools, Conferences and Seminars **Quantitative Methods for Population Dynamics** 21-22/03/2022 A TWO-DAY ONLINE WORKSHOP WITH R **Data Science Summer School** 09/07/2021-30/07/2021 ONLINE SUMMER SCHOOL Hertie School Data Science Lab, Berlin **Fourth International Conference on Biosciences (ICBS-2021)** 15/06/2021 DEPARTMENT OF PLANT SCIENCES QUAID-I-AZAM UNIVERSITY ISLAMABAD PAKISTAN Geo-Python 2021 21/04/2021-22/04/2021 ONLINE CONFERENCE **Arthropod Genomics Symposium** 21/07/2020-22/07/2020 **ONLINE CONFERENCE Virtual International Statistical Ecology Conference** 22/06/2020 - 27/06/2020 ONLINE CONFERENCE University of Sydney 01/07/2019 - 12/07/2019 **Design Survey and Analysis of Wildlife Populations** TRAINING WORKSHOP Snow Leopard Foundation, Pakistan Statistical Analysis using R programming Museum of Natural History, Collection and analysis of non-invasive genetic samples for wildlife monitoring Ministry of Climate Change Wildlife capture, im-mobilization, and radio-tracking Spatial Capture-Recapture Camera-Trap data management Double-Observer surveys for Ungulate population estimation

Genetic Analysis of Pakistani Population

Occupancy modelling

18/05/2017

SEMINAR

Centre for OMIC Studies

Islamia College Peshawar

Skills

Field: Camera Trapping, Non-invasive genetic sampling, Sign surveys of animals, Double observer surveys for ungulates

Modelling: Abundance and density (Spatial-Capture-Recapture,

Unmarked), Occupancy, Habitat Suitability

Computer: MS Office (Word, Power Point, Excel), Mapping and GIS (ArcGIS, QGIS), Camera Trap Data Management (CPW PhotoWareHouse, CAMELOT, camtrapR, DigiKam) GIMP (GNU Image Manipulation Program), Programming (R, Python), Reference Management (Mendeley, Zotero), Software and Hardware **Installation and Troubleshooting**

Languages: Pashto (Native), Urdu (National), English (Language of instruction for higher education, Duolingo English Test Overall Score = 125)

Online Courses

Offine Courses	
Biological Diversity (Theories, Measures and Data sampling techniques), Ecology: Ecosystem Dynamics and Conservation, Bugs-101: Insect-Human Interactions, The Data Scientist's Toolbox, Probability and Statistics: To p or not to p?	Coursera
Bacterial Genomes: From DNA to Protein Function Using Bioinformatics Futurelearn.com	
DNA Amplification for forensic analysts	National Institute of Justice, US Department of Justice
Going Places with Spatial Analysis, Spatial Data Science: The New Frontier in Analytics	Esri Training
Integrated Planning for Climate Change and Biodiversity	United Nations Institute for Training and Research
Referees	
Dr. Stuart Townley, PROFESSOR IN APPLIED MATHEMATICS	+44-1326 255743
ENVIRONMENT AND SUSTAINABILITY INSTITUTE, UNIVERSITY OF EXETER, PENRYN CAMPUS, ENGLAND	s.b.townley@exeter.ac.uk
Dr. Muhammad Ali Nawaz, ASSOCIATE PROFESSOR	+97-450529560
DEPARTMENT OF BIOLOGICAL AND ENVIRONMENTAL SCIENCES, COLLEGE OF ARTS AND SCIENCES, QATAR UNIVERSITY DOHA, QATAR	anawaz@qu.edu.qa
Dr. Muhammad Ismail Khan, ASSISTANT PROFESSOR	+92-3348802406
DEPARTMENT OF ZOOLOGY ISLAMIA COLLEGE PESHAWAR, PAKISTAN	ismail@icp.edu.pk
Dr. Muhammad Asim Khan, RSEARCHER	+92-3348812997
DEPARTEMNT OF ZOOLOGY, QUIAD-I-AZAM UNIVERSITY ISLAMABAD, PAKISTAN	asimkhan@bs.qau.edu.pk