
JUDE JANITHA NIROSHAN

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Profile

Hardworking, creative, enthusiastic Zoologist, seeking an opportunity to use his knowledge and skills for the advancement of science and technology.

Education

- **Bachelor of Science Honours in Zoology**, Faculty of Science, University of Colombo, Sri Lanka (UOC, SL) 2016-2020
 - School education: Royal college, Colombo 07, Sri Lanka 2006-2014
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Research Publications

- **Niroshan et al.** Systematic revision of the ‘diminutive’ Kentish Plover with resurrection of *Charadrius seebohmi* based on phenotypic and genetic analyses (IBIS - 2023, [Find the article](#))
- Seneviratne, S. S. & **Niroshan, J. J.** in press. IMPACT OF THE X-PRESS PEARL DISASTER ON COASTAL AND MARINE BIRDS. In X-press Pearl Maritime disaster. M Vithanage & A. de Cost (Eds), (CRC Press – 2023)

Abstracts:

- Genetic isolation through geographic distribution suggests an incipient speciation in a ground nesting shorebird *Charadrius alexandrinus* – Kentish Plover (SLAAS - 2020)
 - Tropical lifestyle shapes wing morphology of migratory shorebird *Charadrius alexandrinus* - Kentish Plover (Wild Lanka - 2020)
 - Land-cover assessment in the Kumana national park, Sri Lanka using multi temporal satellite data (YSF -2020)
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Experience

- **Undergraduate Research** dissertation, “The role of genome and phenome in an incipient speciation event of the Kentish Plover (*Charadrius alexandrinus*) in Sri Lanka”
To resolve phylogenetic affinities and to understand the gene flow and population structure between local breeding resident subspecies *C. a. seebohmi* with other sister taxa (nominated migrant *C. alexandrinus*, Kentish Plover and *C. dealbatus*, White Faced Plover), microsatellite genotyping (Bayesian clustering), ML/ Bayesian phylogeny and haplotype analysis were carried out. Based on differences in genotype, phenotype, allochronic migratory pattern and breeding range, **taxonomic position of *C. a. seebohmi* was uplifted to species level and a vernacular name was suggested as “Hanuman Plover”**. This research is now [published in IBIS](#).
Supervisors: Prof. Sampath Seveviratne (UOC) & Prof. Yang Liu (Sun Yat-sen University, China)

- Temporary demonstrator (similar to Teaching Assistant) in Zoology (2021-2022) at Faculty of Applied Sciences, Rajarata University of Sri Lanka.
Conducted practical classes, practical manual preparation and exam invigilation for several course modules related to Zoology.
- Have 50+ **field experiences** across Sri Lanka covering various eco systems.
Capturing, handling, marking (ringing/ flagging), sample (blood/ tissue/ biometric) collection & satellite tagging (GPS-GSM tagging) with regards to birds. Small mammal capturing, handling, marking techniques. Camera trapping.
Regular participant to the National Bird Ringing Programme (NBRP, SL) at Mannar/ Bundala National Parks from 2019 onwards

Field assistant of two postgraduate studies ([ASC Research Group, UOC](#)):

- Biogeographical, ecological and genetic connectivity patterns of avifauna across the Rama's bridge & Mannar island (2018-2022)
Conducted field work in coastal and arid zones, bird surveys (shorebird/ breeding), capturing and sampling birds, analysis and reports, awareness programs
- Decoding the evolution of vocal mimicry: geneflow, vocal plasticity and their role in maintaining species limits in a vocally complex songbird (2017-2020)
Conducted field work in rainforests, capturing and sampling birds
- **Laboratory experiences** include molecular methods: DNA extraction, PCR techniques, microsatellite genotyping, phylogenetic and population structure analysis, utilizing software in molecular/ statistical analysis
- Guided and assisted two field research projects for range officers of the Department of Wildlife Conservation of Sri Lanka (DWC) at Horton Plains National Park (2018)
- Public survey and stakeholder analysis (Human-Elephant Conflict - HEC) at Maduru-oya National Park, Sri Lanka (2019)
- Habitat assessment and niche modelling analysis of Kumana National Park, Sri Lanka using ArcGIS (2019)

Software skills

Molecular: IQ Tree, RaxML, Structure, MEGA, PopArt, GenAlex, GeneiousPrime, Arlequin, Mr. Bayes, DNAsp, Chromas, FigTree

Statistical: R, SPSS, MS Excel

Graphical: Blender (3D), Adobe CC, Krita (similar to Adobe PS), Inkscape (similar to Adobe AI), Lunacy, Materialize, Darktable

Audio & Video: Kdenlive (similar to Adobe PR), CapCut, Audacity

Programming & Engines: Unity UE, Godot, Gdevelop, Python (basic knowledge)

Other: MS Word, MS PowerPoint, ArcGIS, WordPress (web designing), GitHub, have experience in Linux based kernels (Ubuntu, MintOS)

Awards

- Best undergraduate research in Zoology award offered by the Sri Lanka Natural History Society (SLNHS – Est. 1912) (2022)
- Inter university poster competition (Section E2- Chemical sciences) organized by SLAAS – third place (2017)
- Winner of creative team of imagination at Young Inventors Club Competition (2013)
- Honours pass in Photography, Offered by UOC (2018)

Memberships

- Member and assistant editor (2020) of the Field Ornithology Group of Sri Lanka (FOGSL) (2016-2023)
- Member of the Avian Sciences & Conservation (ASC) group, Researcher, and former laboratory website designer and manager (<https://evolution.cmb.ac.lk>) (2019-2023)
- Member of Sri Lanka Association for the Advancement of Science (SLAAS) (2020-2023)

Research Interests

Evolutionary biology, ecology, speciation, phylogeny, population genetics, behavioral studies, animal migration, sexual selection, wildlife management and conservation

Languages

Fluent in Sinhala (native), pending IELTS

Portfolio

Please visit <https://judeniroshan.info/> for my portfolio website

References

- **Prof. Sampath S. Seneviratne**
Professor in Zoology, Department of Zoology & Environment Science, Faculty of Science, University of Colombo, Sri Lanka (sam@sci.cmb.ac.lk +94710821177)
- **Dr. Kanishka Ukuwela**
Senior Lecturer, Department of Biological sciences, Faculty of Applied Sciences, Rajarata University of Sri Lanka, Sri Lanka (kanishka@as.rjt.ac.lk, kanishkaku@gmail.com)

Declaration

I hereby certify that the provided information is true and correct to the best of my knowledge.

Sincerely,
Jude Janitha Niroshan