**Shanelle A. Wikramanayake**

Department of Biology

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**Education**

**California State University, Northridge (CSUN)** expected June 2023

Department of Biology, MSc

**University of Washington (UW), Seattle** September 2016 – June 2020

BS, Biology

**Research Interests**

Evolutionary Ecology, Conservation genetics, Population Genetics, Phylogenetics, Evolutionary Physiology, Herpetology

**Publications**

**Wikramanayake, S. A.,** (2022). [Review of *A Photographic Field Guide to the Amphibians of Sri Lanka*, by A. de Silva, K. Ukuwela, and D. Chathuranga]. *Herpetological review*, 53, 355– 356.

**Wikramanayake, S. A.,**Wikramanayake, E. D., Pallewatta, N., & Leaché, A. D. (2021). Integration of genetic structure into conservation of an endangered, endemic lizard, *Ceratophora aspera*: A case study from Sri Lanka. *Biotropica*, 00, 1– 15. <https://doi.org/10.1111/btp.12970>

Wikramanayake, E. D, Fernando, S., Wickramaratne, C., Akbarally, Z., **Wikramanayake, S. A.** (2020) Sri Lankan Moist Forests Ecoregions: An imperiled Island Rainforest., *Earth Systems and Environmental Sciences.*

<https://doi.org/10.1016/B978-0-12-821139-7.00004-0>

**Wikramanyake, S. A**., “*Bromeliohyla bromeliacia*: Bromeliad Tree Frog”. *AmphibiaWeb*, University of California, Berkeley, CA, USA, [http://amphibiaweb.org/species/745. Accessed 19 November 2020](http://amphibiaweb.org/species/745.%20Accessed%2019%20November%202020).

**Research Experience**

**Department of Biology, CSUN** 2020 – Present

PI: Jeanne M. Robertson

Investigating the neurological basis of female mate-choice on speciation in a polymorphic tree frog *(Agalychnis callidryas).*

**Department of Biology, UW, Seattle** 2017 – 2020

PI: Adam D. Leaché

Integration of genetic structure into conservation of an endangered, endemic lizard, *Ceratophora aspera*.

**Burke Museum of Natural History and Culture, UW, Seattle, Washington** 2019

Herpetology Collections Manager: Peter Miller

Identifying and organizing historical specimens of *Thamnophis* species to understand changes in distribution in the Pacific Northwest.

**Biology Department/ School of Aquatic and Fishery Sciences, UW, Seattle** 2018

Graduate Student: Christopher D. Wells

Quantifying morphometrics of cup corals *(Balanophyllia)* to assess environmental effects on growth.

**Predator Ecology Lab, School of Environmental and Forest Sciences, UW, Seattle** 2017

Graduate Student: Carolyn Shores

Analyzing camera trap data to understand predator-prey interactions in the Pacific Northwest.

**Professional Presentations**

**Wikramanayake, S. A.,** Gompert, Z., Robertson, J. M., Chan, L. M., (2022) Using genetic simulation models to assess the effects of mate-choice and epistasis on speciation of divergent inter-specific populations. CSUNposium. (*Lightning talk*)

**Wikramanayake, S. A.,** Pascal, F.J., Hoke, K., Vega, A., Robertson, J. M., (2021). The neural basis of premating isolation in the red-eyed treefrog (*Agalychnis callidryas*). Annual Southwest Regional Meeting of Organismal Biologists. (*Oral*)

**Wikramanayake, S. A.,** Pascal, F.J., Hoke, K., Vega, A., Robertson, J. M., (2021). The neural basis of premating isolation in the red-eyed treefrog (*Agalychnis callidryas*). Joint Meeting of Ichthyologists and Herpetologists. (*Poster*)

**Wikramanayake, S.A.,** Wikramanayake, E.D., Pallewatte, N., Leaché A.D. (2021). Integration of genetic structure into conservation of an endangered, endemic lizard, *Ceratophora aspera*: A case study from Sri Lanka. Virtual meeting of the Association for Tropical Biology and Conservation. (*Lightning talk)*

**Wikramanayake, S. A.,** Pascal, F.J., Hoke, K., Vega, A., Robertson, J. M., (2021). The neurological basis of premating isolation in the red-eyed treefrog (*Agalychnis callidryas*). CSUNposium. (*Poster*)

**Wikramanayake, S.A.,** Wikramanayake, E.D., Pallewatte, N., Leaché A.D. (2020). Genetic Structure of an Endemic Endangered Agamid Lizard from Sri Lanka (*Ceratophora aspera*) and its Implications for Conservation*.* Undergraduate Research Symposium, UW, Seattle, Washington. (*Poster)*

**Wikramanayake, S.A.,** Wikramanayake, E.D., Pallewatte, N., Leaché A.D. (2019). A phylogeographic approach to conserving the endangered Sri Lankan Rough-nose horned lizard (*Ceratophora aspera*)*.* Association for Tropical Biodiversity- Asia Pacific Chapter Meeting, Sri Lanka, 2019. (*Oral)*

**Wikramanayake, S.A.,** Wikramanayake, E.D., Pallewatte, N., Leaché A.D. (2019). A phylogeographic approach to conserving the endangered Sri Lankan Rough-nose horned lizard (*Ceratophora aspera*)*.* Undergraduate Research Symposium, UW, Seattle, Washington. *(Oral)*

**Research Grants**

**Exploration Fund Grant, The Explorers Club** ($4,000)2022

The effect of forest fragmentation and degradation on genetic structure of and connectivity among populations: Exploring a case study of four endemic island species in an imperiled rainforest ecosystem

**California State University, Northridge Graduate Thesis Support Grant** ($600) 2020

Understanding the relative contributions of multiple modes of sexual signal to pre-mating isolation and lineage divergence

**Walter and Margaret Sargent Endowed Scholarship Fund** ($1600) 2019

Genetic structure of an endemic endangered agamid lizard from Sri Lanka (*Ceratophora aspera*) and its implications for conservation

**Mary Gates Research Scholarship** ($5000) 2018

A phylogeographic approach to conserving a rare and endangered Sri Lankan lizard

**Walter and Margaret Sargent Endowed Scholarship Fund** ($1500) 2018

A phylogeographic approach to conserving the endangered Sri Lankan Rough-nose horned lizard *(Ceratophora aspera)*

**Honors and Awards**

* **International Graduate Student Award, CSUN** ($700)2022
* **Robert H. Schiffman Memorial Award for Outstanding Research Promise, CSUN** ($700)2021
* **California State University, Northridge Tuition Fee Waiver** 2020
* **Dean’s List, UW, Seattle** 4 Quarters
* **John and Dorothy Franco** **Award** ($1400) 2020

Best scientific paper submitted by an undergraduate involved in research

**Teaching and Outreach Experience**

**Teaching Associate, CSUN** 2020 – 2022

Class: General Biology Lab for non-major students (BIOL 101L)

**Hy-Flex Instructional Student Assistant, CSUN** 2021

Assisting with bridging the disconnect between virtual and in-person students in a Hy-Flex classroom setting

**STEM Outreach, CSUN** 2020, 2022

STEM related outreach activities for 2nd and 3rd grade students at the Multicultural Learning Center, Canoga Park, CA

**Burke Museum of Natural History and Culture, UW, Seattle, Washington** 2019

Outreach activities for Herpetology Department, including presenting collection and specimen preparation for public viewing

**Peer Facilitator, UW, Seattle**  2018

Class: Introductory Biology for Biology majors (BIOL 220)

**Professional Work Experience**

**Vivarium Assistant** 2020 – 2022

Animal care (mammals, fish, reptiles and amphibians)

**Curatorial Assistant, Burke Museum of Natural History and Culture, UW, Seattle, Washington**

Organized herpetology collection 2019

**Intern, Convention on Biological Diversity**, **Sri Lanka** 2018

Data analysis

**Intern, Environmental Foundation Limited**, **Colombo, Sri Lanka** 2017

Project report preparation and case study preparation for protected areas in Sri Lanka, by conducting site visits, literature searches and interviews

**Professional Service**

**Ad-hoc reviewer: “Scientific Reports”** November 2021

**Ad-hoc reviewer: “Mitochondrial DNA Part B”** May, July 2020

**Sri Lanka Reptile Red List Assessment** September 2019  
Provided data for listing species under the IUCN Red List, compiled species accounts and contributed to the conservation action planning for the snakes and lizards of Sri Lanka

**18th Conference of the Parties to the Convention on International Trade in Endangered Species (CITES CoP18)** August 2019  
Provided data for first listing of *Ceratophora aspera* (*Appendix II*)under CITES

**Member and contributor to iNaturalist** (Handle: [shanelle97](https://www.inaturalist.org/people/shanelle97))

Observations: 969

Species: 559

Identifications: 527

Observation of the day: <https://www.inaturalist.org/observations/105020170>

Sri Lanka - iNaturalist World Tour: <https://www.inaturalist.org/blog/26809-sri-lanka-inaturalist-world-tour>

**Society Memberships**

* **President, CSUN, Behavior, Ecology and Evolution Research (BEER) Club** 2021
* **Vice President, CSUN, Behavior, Ecology and Evolution Research (BEER) Club** 2020
* **Representative, CSUN Women in Science (CSUN WiS)** 2020
* **Society for Integrative and Comparative Biology (SICB)** 2020
* **American Society of Ichthyologists and Herpetologists (ASIH)** 2020 – 2022
* **Society for the Study of Amphibians and Reptiles (SSAR)** 2020 – 2022
* **Association for Tropical Biology and Conservation (ATBC)** 2019 – 2022

**Skills**

**Language:** Fluent

* English
* Sinhala (native tongue)

**Phylogenetics:** Intermediate

* Sequence assembly (Geneious, MEGA, iPyrad)
* Phylogeny estimation (BEAST, RAxML, BPP, PAUP)
* Biogeographic analysis (VCFTools, Arlequin)

**Computer language:** Intermediate

* Python
* R
* Linux command line

**Miscellaneous:**

* ImageJ
* QGIS
* PADI Open Water Certification