Shanelle A. Wikramanayake

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Education

Colorado State University (CSU), Fort Collins

Sep 2023 – expected May 2028

Graduate Degree Program in Ecology (GDPE) and Department of Biology, PhD

PI: W. Chris Funk

California State University, Northridge (CSUN)

Sep 2020 – June 2023

Department of Biology, MSc PI: Jeanne M. Robertson

University of Washington (UW), Seattle

Sep 2016 – June 2020

BS, Biology

Advisor: Adam D. Leaché

Publications

Davis, H. R., Nashriq, I., Woytek, K. S., **Wikramanayake, S. A.**, Bauer, A. M., Karin, B. R., Brennan, I. G., Iskandar, D. T., Das, I. (2024). Third time's the charm: nomenclatural availability provided to the nomina of two Bornean *Cyrtodactylus* (Squamata, Gekkonidae). *Bionomina*, 39, 29-32. 10.11646/bionomina.39.1.7

Davis, H. R., Nashriq, I., Woytek, K. S., **Wikramanayake, S. A.**, Bauer, A. M., Karin, B. R., Brennan, I. G., Iskandar, D. T., Das, I. (2023). Redescription of two Bornean gekkonid lizard species of the *Cyrtodactylus consobrinus* (Peters, 1871) complex with comments on online supplementary material. *Bionomina*, 35, 9-19. https://doi.org/10.11646/bionomina.35.1.2

Davis, H. R., Nashriq, I., Woytek, K. S., **Wikramanayake, S. A.**, Bauer, A. M., Karin, B. R., Brennan, I. G., Iskandar, D. T., Das, I. (2023). Genomic analysis of Bornean geckos (Gekkonidae: *Cyrtodactylus*) reveals need for updated Taxonomy. *Zoologica Scripta*, 52, 249-263. https://doi.org/10.1111/zsc.12575

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.

Research Grants

1st Rufford Small Grant, The Rufford Foundation (£7000)

2025

Strategic management of plantations for conservation and persistence of endemic Sri Lankan rainforest lizards informed by physiology, ecology, and behaviour

Roger Conant Grants in Herpetology, Society for the Study of Amphibians and Reptiles (\$500)2024 Integrating genetics into conservation planning of tropical lizards in an imperiled ecosystem

GDPE Research Grant, CSU, Fort Collins (\$1500)

2024

Characterizing the thermal niches of tropical lizards facing climate change in an imperiled ecosystem for conservation

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 imperilled 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, UW (\$1600)

2019

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

Mary Gates Research Scholarship, UW (\$5000)

2018

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

Walter and Margaret Sargent Endowed Scholarship Fund, UW (\$1500)

2018

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

Honors and Awards

Second place winner, CSU Graduate Studies and Vice President of Research 3-minute thesis talk		is talk
challenge		2025
 Department of Biology Conference Travel Award, CSU, Fort Collins 		2024
• Colorado State Graduate Fellowship, CSU, Fort Collins (\$2000)		2023
 Inclusive Excellence Fellowship Award, CSU, Fort Collins 		2023
• Nathan O. Freedman Memorial Award for Outstanding Graduate Student,	CSUN (\$3000)	2023
• Distinguished Thesis/Graduate Project Competition, CSUN (\$1500)		2023
• 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	Sep2020 – June	e 2023
• Dean's List, UW, Seattle	4 Q1	uarters
• John and Dorothy Franco Award, UW, Seattle (\$1400)		2020
Best scientific paper submitted by an undergraduate involved in research		

Professional Presentations

Wikramanayake, S. A., Espinoza, R. E., Funk, W. C., (2025). Making things tolerable: A thermal physiological approach to reforestation in a warming, fragmented biodiversity hotspot. Front Range Student Ecology Symposium 2025: Back to our roots (*poster*)

Wikramanayake, S. A., Espinoza, R. E., Funk, W. C., (2024). Persistence vs. extinction of tropical lizards in a changing world. CSU, Fort Collins Graduate Student Showcase. (*poster; Top Scholars for University-Wide Graduate Programs 2nd place winner*)

Wikramanayake, S. A., Espinoza, R. E., Funk, W. C., (2024). Persistence vs. extinction in a warming, fragmenting world: Can Sri Lankan rainforest lizards cope? 10th World Congress of Herpetology.(*poster*)

Wikramanayake, S. A., Pietti, A. D., Mendez, J., Hoke, K., Vega, A., Chan, L. M., Gompert, Z., Gray, D. A., Robertson, J. M., (2024). Investigating the role of premating behavioural reproductive isolation along a speciation continuum in a polymorphic neotropical treefrog, *Agalychnis callidryas*. Front Range Student Ecology Symposium 2024: Niches to networks. (*Oral*)

Wikramanayake, S. A., Pascal, F.J., Hoke, K., Vega, A., Robertson, J. M., (2023). An integrative approach to elucidate the underlying mechanisms of speciation in a polymorphic neotropical treefrog, *Agalychnis callidryas*. Southern California Academy of Sciences Annual Meeting. (*Oral*)

Wikramanayake, S. A., Pascal, F.J., Hoke, K., Vega, A., Robertson, J. M., (2023). Investigating the neurological basis of speciation in a polymorphic neotropical treefrog, *Agalychnis callidryas*. CSUNposium. (*Oral; 1st place winner*)

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*; 2nd place winner)

Wikramanayake, S.A., Wikramanayake, E.D., Pallewatte, N., Leaché A.D. (2020). Genetic Structure of an endemic endangered 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 Experience

Graduate Degree Program in Ecology (GDPE) and Department of Biology, CSU, Fort Collins PI: W. Chris Funk Sep 2023 – presentPersistence vs. extinction in a warming, fragmented world: An integrative, conservation genomics approach using tropical island lizards.

Department of Biology, CSUN

Sep 2020 – June 2023

PI: Jeanne M. Robertson

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

• A modeling approach to understanding the factors driving the speciation continuum.

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 historical *Thamnophis* specimens 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.

Teaching and Outreach Experience

-	dening and Outreach Experience	
•	Guest lecturer, CSU, Fort Collins	3 rd Nov, Fall 2024
	"Human evolution" lecture for Introduction to Evolution (BZ220)	
•	Graduate Teaching Assistance (GTA), CSU, Fort Collins	Fall 2024
	Class: Introduction to Evolution (BZ220)	
•	International Graduate GTA Excellence in Teaching certificate, CSU Fort Collin	ns Fall 2023
•	Graduate Associate, CSUN	Spring 2023
	Class: Molecular Markers in Evolutionary Studies and Lab (BIOL452/452L)	
•	Teaching Associate, CSUN	2020 - 2022
	Class: General Biology Lab for non-major students (BIOL 101L)	
•	Hy-Flex Instructional Student Assistant, CSUN	2021
	Assistance in Hy-Flex classroom setting	
•	STEM Outreach, CSUN	2020, 2022
	STEM related outreach activities for 2 nd and 3 rd grade students at the Multicultural Le	earning Center, Canoga
	Park, CA	
•	Burke Museum of Natural History and Culture, UW, Seattle, Washington	2019
	Collection and specimen preparation in herpetology department for public viewing	
•	Peer Facilitator, UW, Seattle	2018

Professional Work Experience

•	Graduate Assistant, CSUN	Spring 2023
	Classes: Herpetology (BIOL412)	

• Vivarium Technician

2020 - 2022

Animal care (mammals, fish, reptiles, and amphibians)

Class: Introductory Biology for Biology majors (BIOL 220)

• Curatorial Assistant, Burke Museum of Natural History and Culture, UW, Seattle, Washington
Organized herpetology collection 2019

Intern, Convention on Biological Diversity, Sri Lanka Data analysis

2018

Intern, Environmental Foundation Limited, Colombo, Sri Lanka

2017

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

Professional Service

1 Totessional Service		
Treasurer, 31 st Front Range Student Ecology Symposium 2025	2024-2025	
• Mentor, GDPE Mentor-Mentee program	2024	
Mentor, Global Women in Herpetology Mentorship program	2024	
• Workshop co-lead, "Introduction to vector graphics for scientific illustration" for	GDPE 2024	
• Graduate student presentation and abstract judge, Multicultural Undergraduate Re	esearch Art and	
Leadership Symposium (MURALS), CSU, Fort Collins	2024	
• Workshop organizer and day of volunteer, 30th Front Range Student Ecology Sym	posium 2024 2024	
• Contributing Author, "Women in Herpetology: 50 Stories from Around the World" Edited by Umilaela		
Arifin, Itzue Wendolin Caviedes-Solis, Sinlan Poo	2023	
• Member, ASIH Diversity, Equity, Inclusion, and Belonging committee	2022-2024	
• Ad- hoc reviewer,		
- "Biotropica"	Dec 2024	
- "Molecular Ecology"	Nov2024	
- "Reptiles & Amphibians"	Oct 2022, March 2023	
- "Scientific Reports"	Nov 2021	
- "Mitochondrial DNA Part B"	May, July 2020	
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• Participant, Sri Lanka Reptile Red List Assessment

Sep 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
- Assistant, 18th Conference of the Parties to the Convention on International Trade in Endangered Species (CITES CoP18) Aug 2019
 - Provided data for first listing of Ceratophora aspera (Appendix II) under CITES
- Member and contributor to iNaturalist (Handle: shanelle97)
 - Observations: 1227
 - Species: 675
 - 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 Club	2021
•	TE D 11 COUNTY D 1 1 E 1 1 E 1 1 E 1 1 E 1 1 E 1 1 E 1	2020
•	Representative, CSUN Women in Science	2020
•	Society for Integrative and Comparative Biology (SICB)	2020
•	American Society of Ichthyologists and Herpetologists (ASIH)	2020 - 2024
•	Society for the Study of Amphibians and Reptiles (SSAR)	2020 - 2022
•	Association for Tropical Biology and Conservation (ATBC)	2019 - 2022
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Skills

Language: Fluent English, Sinhala (native tongue) Computer language: Intermediate R, Python, Unix, bioinformatics

GIS: Intermediate

OGIS, ArcGIS Pro

Miscellaneous: ImageJ, Raven Pro, PADI Advance Open Water Certification, Adobe Illustrator

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