

Kyle J. Shaney

Curriculum Vitae

Assistant Professor
Department of Biological and Health Sciences
Texas A&M University-Kingsville

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Education

- 2017 **Ph.D. Quantitative Biology**. University of Texas, Arlington. Dissertation: Biogeography and conservation of reptilian diversity in West Indonesia. Adviser: Eric N. Smith
- 2012 **B.I.S. Botany/Environmental Studies/Zoology**. Weber State University. Ogden, Utah. Thesis: Biodiversity surveys along the Wasatch Front, Utah. Adviser: Jon Marshall

Language Proficiency

English (Native), Spanish (Fluent), Indonesian (Basic)

Academic Appointments

HSI=Hispanic Serving Institution, ENAI=Emerging Native American Institution

- 2022-present. **Assistant Professor of Vertebrate Zoology** (tenure-track). Department of Biological and Health Sciences. Texas A&M University-Kingsville.
- 2021-2022. **Graduate Program Coordinator**. Department of Natural Resource Management and Department of Forestry. New Mexico Highlands University (HSI, ENAI).
- 2021-2022. **Assistant Professor** (tenure-track). Department of Forestry. New Mexico Highlands University (HSI, ENAI). Las Vegas, New Mexico.
- 2018-2020. **Postdoctoral Fellow**. Department of Ecology and Biodiversity. Institute of Ecology. National Autonomous University of México. Mexico City, México. Supervisor: Ella Vázquez Domínguez.
- 2013-2017. **Graduate Teaching Assistant**. Amphibian and Reptile Diversity Research Center and Department of Biology. University of Texas at Arlington (HSI). Arlington, Texas.

Other Professional Experience

- 2015-present. **IUCN Crocodile Specialist Group** and Sunda Gharial Task Force member (Appointed).
- 2021-2022. **NSF CREST grant subproject leader** (Not a PI or Co-PI). Wildlife ecological functions, fire and reforestation. (responsible for \$250,000 piece of \$5 million award).
- 2020-present. **Honorary Member of ICCA** (Indigenous and Community-Conserved Territories and Areas) international consortium.
- 2021-present. **Felidae Conservation Fund Researcher**. Cougar coexistence project management, Bay Area, California.

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2018. **Wildland Firefighter** (six-month fire season). Silver State Hotshots. Bureau of Land Management and US Forest Service Interagency program. Carson City, Nevada.

2016. **Contract Researcher: Wood Bison Restoration**. Movement Ecology. Alaska Department of Fish and Game. Interior Alaska.

2012. **Wildland Firefighter** (six-month fire season). Engine Crew. Bureau of Land Management and US Forest Service Interagency program. Pocatello, Idaho.

Fellowships and Awards

2019. **Sistema Nacional de Investigadores (SNI), CONACYT** (México Government, Science and Technology Program). SNI Level I researcher. Elevation in national researcher status. (\$10,000/yr).

2018-2020. **DGAPA Postdoctoral Fellowship**. Institute of Ecology. National Autonomous University of México. (\$24,000.00/yr).

2018. **Fulbright Scholar** (Teaching and Research). National University of Colombia, Bogotá. (\$25,000.00). (Did not accept because of simultaneous offer).

2013 – 2017. **STEM Scholarship**. University of Texas at Arlington. (\$32,000.00).

Grants

(More than \$400,000 total, PI unless notated otherwise)

2022. **Rocky Mountain Elk Foundation Year 2**. Cougar predation on elk in northern New Mexico. (\$15,000.00).

2021-2024. **USDA-NLGCA Capacity Building Grant Program**. Rio Mora Natural Resources Field Skills and Leadership Development Program (Co-PI). (\$300,000.00).

2021. **High Plains Grasslands Alliance** (private ranchlands group). Engaging undergraduates in cougar ecology on private lands. (\$7,500.00 for undergraduate scholarships).

2021-2022. **IUCN Crocodile Specialist Group**. Sunda gharial movement ecology in Berbak National Park, Sumatra, Indonesia. (\$22,300.00).

2021. **Rocky Mountain Elk Foundation Year 1**. Cougar predation on elk in northern New Mexico. (\$12,000.00).

2021. **New Mexico Game and Fish Department**. Cougar predation on elk in northern New Mexico. (\$21,000.00 GPS collar contribution).

2021. **New Mexico Highlands University**. Faculty Research Grant. (\$5,000.00).

2016. **Phoenix Herpetological Society**. Conservation Research Grant. (\$5,000.00). Assessing population structure of the False Gharial in Sumatra. (Did not accept).

2014. **National Geographic Society**. Young Explorers Grant. (\$5,000.00). Assessing population structure of an endangered crocodylian in Sumatra, the False Gharial (*T. schlegelii*).

2014. **IUCN Crocodile Specialist Group** (*Tomistoma* Task Force). (\$4,500.00). Assessing abundance and population structure of the endangered False Gharial (*Tomistoma schlegelii*) in Sumatra.

2013. **Phi Sigma Graduate Society**. Research grant. (\$5,000.00). Generating and applying microsatellite markers towards Indonesia's illegal reptile trade.

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Peer Reviewed Publications

(*Corresponding author, § Equal contribution, ^G Grad. student, ^U Undergrad.)

Published

19. Sideleau, B., Staniawicz, A., **Shaney, K. J.** Accepted. An analysis of Sunda gharial (*Tomistoma schlegelii*) attacks on humans. *Marine and Freshwater Research*.
18. Gutierrez-Garcia, T.A., **Shaney, K.J.**, Vazquez-Dominguez, E., Enk, J., Arroyo-Cabrales, J. 2021. Tropical Fossil Mitogenomes: Holocene biogeography of two codistributed rodent genera from the Yucatán Peninsula. *Journal of Archeological Science*.
17. **Shaney, K. J.** §, Diaz-Ramirez, G. L. §, Espindola, S., Castañeda-Rico, S., Berovides-Álvarez, V., Vazquez-Domínguez, E. §. 2020. Defining intraspecific conservation units in the endemic Cuban Rock Iguanas (*Cyclura nubila nubila*). *Scientific Reports*.
16. **Shaney, K. J.***, Harvey, M.B., Hamidy, A., Kurniawan, N., Smith, E. N. 2020. Phylogeny and biogeography of Sumatra's cloud forest lizards of the genus *Dendragama* and status of *Acanthosaura schneideri*. *ZooKeys*.
15. O'Connell, K.A., Oaks, J.R., Hamidy, A., **Shaney, K. J.**, Kurniawan, N., Smith, E. N., Fujita, M.K., 2020. Impacts of Toba eruption and montane forest expansion on diversification in Sumatran parachuting frogs (*Rhacophorus*). *Molecular Ecology*.
14. **Shaney, K.J.***, Maldonado, J. ^U, Smart, U., Fujita, M.K., Hamidy, A., Kurniawan, N., Harvey, M.B., Smith, E. 2020. Phylogeography of montane dragons could shed light on the history of forests and diversification processes in Sumatra. *Molecular Phylogenetics and Evolution*.
13. Harvey, M. B., Larson, T.R., Jacobs, T.L., **Shaney, K. J.**, Streicher, J., Smith, E. N. 2020. *Phoxophrys* After 59 Years: Review of Morphology, Phylogeny, Status of *Pelturagonia*, and A New Species from Southeastern Kalimantan. *Herpetological Monographs*.
12. Harvey, M. B., **Shaney, K. J.**, Sidik, I., Kurniawan, N., Smith, E. N. 2018. Endemic dragons of Sumatra's volcanoes: new species of *Dendragama* (Aquamata: Agamidae) and status of *Salea rosaceum* Thominot. *Herpetological Monographs*.
11. **Shaney, K. J.***, Hamidy, A., Walsh, M., Arida, E., Arimbi, A. ^U, Smith, E. N. 2017. Impacts of anthropogenic pressures on the contemporary biogeography of threatened crocodylians in Sumatra. *Oryx*.
10. Harvey, M. B., Scrivani, J., **Shaney, K. J.**, Hamidy, A., Kurniawan, N., Smith, N. 2017. Sumatra's Endemic Crested Dragons (Agamidae: *Lophocalotes*): A New Species from the Bukit Barisan Range and Comments on *Lophocalotes ludekingi*. *Herpetologica*.
9. O'Connell, K. A., Smith, E. N., **Shaney, K. J.**, Arifin, U., Kurniawan, N., Sidik, I., Fujita, M. K. 2017. Coalescent species delimitation of *Rhacophorus catamitus* (Anura: Rhacophoridae) on Sumatra, and the description of a new species. *Zoologica Scripta*.

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8. Harvey, M. B., **Shaney, K. J.**, Hamidy, A., Kurniawan, N., Smith, E. N. 2017. A new species of *Pseudocalotes* (Squamata: Agamidae) from the Bukit Barisan Range of Sumatra with an estimation of its phylogeny. *Zootaxa*.
7. **Shaney, K. J.** *, Wostl, E., Harvey, M., Smith, E. N. 2016. Conservation challenges regarding IUCN red list assessments in biogeographically complex regions: examples from overexploited reptiles of Indonesia. *Oryx*.
6. Wostl, E., Sidik, I., Trilaksono, W., **Shaney, K. J.**, Kurniawan, N., Vogel, G, Smith, E. N. 2016. Taxonomic status of the Sumatran Pitviper *Trimeresurus (Popeia) toba* David, Petri, Vogel & Doria, 2009 (Squamata: Viperidae) and other Sunda Shelf species of the subgenus *Popeia*. *Journal of Herpetology*.
5. **Shaney, K. J.** *, Adams, R., Kurniawan, N., Hamidy, A., Smith, E. N., Castoe, T. A. 2016. A suite of potentially amplifiable microsatellite loci for reptiles of conservation concern from Africa and Asia. *Conservation Genetics Resources*.
4. Reyes-Velasco, J., Card, D. C., Andrew, A., **Shaney, K. J.**, Adams, R. H., Schield, D., Casewell, N. R., Mackessy, S. P., Castoe, T. A. 2015. Expression of venom homologs in diverse python tissues suggests a new model for the evolution of snake venom. *Molecular Biology and Evolution*.
3. Streicher, J. W., Kurniati, H., Harvey, M. B., Anders, B., **Shaney, K. J.**, Smith, E. N. 2014. Mitochondrial DNA reveals a new species of parachuting frog (Rhacophoridae: *Rhacophorus*) from Sumatra. *Zootaxa*.
2. Harvey, M. B., Hamidy, A., Kurniawan, N., **Shaney, K.J.**, Smith, E. N. 2014. Three new species of *Pseudocalotes* (Squamata: Agamidae) from southern Sumatra, Indonesia. *Zootaxa*.
1. Castoe, T.A., de Koning, A.P.J., Hall, K. T., Card, D. C., Schield, D. R., Fujita, M.K., Ruggiero, R. P., Degner, J. F., Daza, J. M., Gu, W., Reyes-Velasco, J., **Shaney, K.J.**, (and 26 other authors). 2013. The Burmese Python genome reveals the molecular basis for extreme adaptation in snakes. *Proceedings of the National Academy of Sciences*.

Book Chapters

1. **Shaney, K.J.**, Schield, D.R., Card, D.C., Ruggiero, R.P., Pollock, D.D., Mackessy, S.P., Castoe, T.A. 2016. Squamate reptile genomics and evolution. In: *Handbook of Toxinology: Venom Genomics and Proteomics*, P. Gopalakrishnakone (Ed.), Springer Reference Press, New York, NY.

Scientific Reports

4. **Shaney, K. J.**, Shwedick, B., Simpson, B., Stevenson, C. 2019. IUCN Crocodile Specialist Group species action plan: *Tomistoma schlegelii* (Sunda gharial). *IUCN publication*. http://www.iucnscg.org/365_docs/attachments/protarea/29250d3a4c25ac44646a45ccf2aeebdc.pdf. (Invited by IUCN chair and task force members).

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3. **Shaney, K.J.**, Hamidy, A., Smith, E.N. Status of the False gharial in Sumatra. 2017. *IUCN Crocodile Specialist Group Report*.
http://www.iucncsg.org/365_docs/attachments/protarea/f20b70f0a8b97200af0dd496c2a60c95.pdf.
2. **Shaney, K. J.**, Trilaksono, W., Hamidy, A., Smith, E.N. 2015. Preliminary assessment of False gharial (*Tomistoma schlegelii*) populations in Sumatra. *IUCN Croc. Specialist Group Report*.
http://www.iucncsg.org/365_docs/attachments/protarea/02955f7103662bf1710d9281764de798.pdf.
1. **Shaney, K. J.**, and J. C. Marshall. 2013. A herpetofaunal biodiversity survey along the Wasatch Mountains, Utah: A focus on Morgan and Weber counties. *Southwestern Center for Herpetological Research Bulletin*. 3, 17 – 22.

Teaching Experience

Full Courses (Instructor of Record)

Texas A&M University-Kingsville

- Fall, 2022. **Mammalogy** (4 credit und. course).

New Mexico Highlands University

- Spring 2022. **Human-Wildlife Conflict** (2 credit und. and grad. course)
- Fall, 2021. **Principles of Wildlife Management** (3 credit und. course)
- Fall, 2021. **Forestry Field Practices** (4 credit und. course)
- Fall and Spring, 2021, Spring 2022. **Quantitative Methods** (3 credit und. course)
- Spring, 2021, Spring 2022. **Wildlife Habitat Management** (3 credit, grad. and und. course)
- Spring, 2021, Spring 2022. **Field Safety Practices** (1 credit grad. course)

National Autonomous University, Mexico

- Fall, 2019. **Biología de la Conservación: Estrategias y Técnicas Modernas** (Conservation Biology: Strategies and Modern Techniques). 3 credit grad. course offered in Institute of Ecology and Biomedical Graduate Program, UNAM, Mexico City.

Guest Lectures

- Spring, 2022. **Herpetology** Lecture (50 minutes): “*Conservation and Management of Crocodilians*” (Und. Course). New Mexico Highlands University
- Spring, 2017. **Ecology and Evolution** Lecture (50 minutes): “*History of Life on Earth*”. (Und. course). University of Texas-Arlington
- Spring, 2017. **Biogeography** Lecture (50 minutes): “*Biodiversity and Distributions in Southeast Asia*”. UTA. (Und. course). University of Texas-Arlington
- Fall, 2016. **Natural History** Lecture (50 minutes): “*Natural History of Texas*”. (Grad. and und. course). University of Texas-Arlington
- Fall, 2015. **Conservation Biology** Lecture (50 minutes): “*International Wildlife Management*”. UTA. (Grad. and und. course). University of Texas-Arlington

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Lab Instructor, The University of Texas-Arlington

- Spring, 2017. **Biostatistics (TA)**, UTA (Und. course). One semester (two sections). University of Texas-Arlington
- Fall, 2016. **Natural History**, UTA (Und. course). One semester (two sections). University of Texas-Arlington
- Summer, 2016. **Biostatistics**, UTA (Und. course). One semester (two sections). University of Texas-Arlington
- Fall 2015 – Spring 2016. **Ecology and Evolution**, UTA (Und. course). Two semesters (two sections per semester). University of Texas-Arlington
- Spring 2013 – Spring 2015. **Structure and Function of Organisms**, UTA (Und. course). Five semesters (two to three sections per semester). University of Texas-Arlington

Certifications and Skills

- 2017. **Formal training with CIRTL** (Center for the Integration of Research, Teaching and Learning). Program for excellence in undergraduate education.

Mentorship

Graduate Students

- **Quentin Pino (M.S.)**. Diet and movement ecology of cougars in northeastern New Mexico. Full graduate research assistantship through NSF CREST grant. Graduation-2024.
- **Herdhanu Jayanto (M.S.)**. Movement ecology of Sunda gharials in the Berbak National Park, Sumatra. Funded by IUCN Crocodile Specialist Group. Graduation-2024.
- **Jordan Martinez (M.S.)**. Mapping Mongolian gazelle movements and migrations. Supported by The Nature Conservancy-Mongolia and Denver Zoo. Graduation-2022.

Undergraduate Students

- **Dillon Alexander**. New Mexico Highlands University. Cougar ecology. 2021-2022
- **Leon Lujon**. New Mexico Highlands University. Cougar ecology. 2021-2022
- **Mato Track**. New Mexico Highlands University. Cougar ecology. 2021-2022
- **Marisol Zurita Solis**. National Autonomous University of Mexico, Mexico City, Mexico. Spring semester 2016. Visiting undergraduate thesis work conducted at UTA.
- **Ahmad Muanmar Kadafi**. Universitas Brawijaya, Malang, Indonesia. Spring semester 2016. Visiting undergraduate lab training conducting at UTA.
- **Aisyah Arimbi**. Universitas Gadjad Mada, Jogjakarta, Indonesia. Summer field season and thesis development, 2015 and 2016. Undergraduate Thesis: Crocodile population ecology in Sumatra's lowland peat swamps.

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Invited Seminars

Shaney, K.J. May of 2022. Conservation genomics, biogeography and ecological functions of wildlife. *New Mexico State University*. Department of Fish, Wildlife and Conservation Ecology.

Shaney, K.J. May of 2022. Conservation genomics, biogeography and ecological functions of wildlife. *Texas A&M-Kingsville*. Department of Biological and Health Sciences.

Oral Presentations at Conferences

Shaney, K.J. 2020. Reconsidering the “Exotic” status of elk in Mexico and Texas will impact North American rewilding efforts. *Wildlife Society Meeting*. Virtual.

Shaney, K.J. 2017. Using Biogeography to Identify Cryptic Diversity and Black Holes in Biodiversity Sampling. *The International Congress for Conservation Biology*. Cartagena, Colombia.

Shaney, K.J. 2017. Phylogeography of draconid lizards in the Pacific Ring of Fire. *The International Biogeography Society*, 8th Biennial IBS Conference. Tucson, AZ.

Shaney, K.J. 2016. Biogeography and conservation of reptilian diversity in West Indonesia. *Genome Biology Group Meeting*. University of Texas at Arlington, Arlington, TX.

Shaney, K.J., Hamidy, A., Smith, E.N. 2016. Assessing the impacts of anthropogenic pressures on the contemporary biogeography of threatened crocodylians in Sumatra. *Crocodile Advisory Group Meeting*. Albuquerque, NM.

Shaney, K.J., Hamidy, A., Smith, E. Crocodylians of Sumatra: A population assessment, ecology and conservation planning. 2015. Contributed Paper. *Wildlife Society Meeting, 22nd annual conference*. Winnipeg, Manitoba, Canada.

Shaney, K.J. Crocodylian population status in Berbak National Park. 2015. *Berbak National Park Officials Meeting*. Jambi City, Indonesia.

Shaney, K.J. Phylogenetic analysis of the South-East Asian *Pseudocalotes* lizards. 2014. Guest Speaker. *Universitas Brawijaya*. Malang, Indonesia.

Shaney, K.J., D.R. Schield, D.C. Card, J. Reyes-Velasco, S.P. Mackessy, and T.A. Castoe. Gene expression in Burmese Pythons sheds light on the evolution of venom gene families. 2013. *Joint Evolution—American Society of Naturalists Meetings*. Snowbird, UT.

Popular Articles

- Shaney, K.J.** 2021. Following in the Footsteps of New Mexico Wildlife. *Santa Fe New Mexican newspaper*. https://www.santafenewmexican.com/news/adventure/following-in-the-footsteps-of-new-mexico-wildlife/article_23d1f094-6713-11eb-9cd4-0bf796c2bc4d.html

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2. **Shaney, K.J.** 2020. Combatiendo caza furtiva y expansión de aceite de palma: Los cocodrilos del agua negro de Sumatra. (Combatting poaching and the expansion of palm oil: Blackwater crocodiles of Sumatra). *Oikos*. Influence: 28.7k Twitter followers, 39k Facebook followers.
1. **Shaney, K.J.** Elk population management and policy in Texas. 2017. *Bugle Magazine* (Official Magazine of the Rocky Mountain Elk Foundation). Conservation and Hunter Education Magazine with 205,000 magazine subscribers, 575k Facebook followers.

Media Coverage

- **Exploring the historic trails of Mexican elk:** by Joshua Rapp Learn. *The Wildlife Society magazine*. <https://wildlife.org/tws2020-exploring-the-historic-trails-of-mexican-elk/>. Coverage of our lab research. 2020.
- **Meateater Podcast episode 061** (Hunting, Conservation, Wilderness Podcast). Rocky Mountain Elk Foundation Director, David Allen. Our work covered between 1 hour 09 minutes and 1 hour 15 minutes. Their podcast has a lot of listeners so this was pretty exciting. 2017.
- **National Geographic** social media clips of crocodile research in Indonesia. **More than 4 million views.** <https://fb.watch/2op-EPR3bs/>. 2017.

Professional Reviewer Experience

- Western North American Naturalist
- Journal of Herpetology
- Zoological Journal of the Linnean Society
- Animal Conservation
- Amphibia Reptilia
- PLOS One
- Raffles Bulletin of Zoology

Organizations

- American Society of Naturalists
- Society for Conservation Biology
- The International Biogeography Society
- Wildlife Society

Other Service and Outreach

- 2021. **Chair of tenure track search committee** for Spatial Ecologist in Department of Forestry, NMHU.
- 2021. **Sabinoso Wilderness Area.** Assisted with removal of barbed wire fencing. New Mexico Wildlife Federation
- 2021-present. **NSF CREST subproject lead.** Fire, ungulates, grazing and reforestation.

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- 2021. **STEM showdown.** NMHU and Conservation Science Center. Engaging K-12 in natural sciences.
- 2015 – 2017. **Wildlife Society: Hunting, Trapping and Conservation Working Group.** Communications and social media committee member.
- 2014 – 2017. **Graduate Student Senate.** Various volunteer activities, including judging undergraduate presentations and poster sessions at UTA *ACES* meeting.
- 2014 – 2017. **Rocky Mountain Elk Foundation.** Volunteer.
- 2014 – 2017. **Mule Deer Foundation.** Volunteer.

Certifications

- **USFS basic tree climbing certification.** Santa Fe National Forest, NM. 2021
- **First Aid, CPR, Emergency Medicine.** Silver State Hotshot fire crew. 2018