

Kelly M G Diamond

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Academic Preparation

- 2020 Ph.D. Biological Sciences, Clemson University, Clemson, SC
Functional morphology and environmental impacts on escape performance in amphidromous goby fishes
- 2015 M.S. Biological Sciences, Clemson University, Clemson, SC
*Environmental effects on fish escape responses: impact of flow on the escape performance of the Hawaiian stream goby, *Sicyopterus stimpsoni**
- 2013 B.S. Biology, University of Central Florida, Orlando, FL
Phylogenetic relationships and morphological variation in pitviper taxa

Publications

- 2017 Taft NK, Taft BN, Henck H, **Diamond KM**, Schoenfuss HL, Blob RW. Comparative morphology and mechanical properties of the lepidotrichia of climbing and non-climbing Hawaiian gobioid fishes. *Cybium*. 41(2): 107-115.
- 2016 **Diamond KM**, Schoenfuss HL, Walker JA, Blob RW. Flowing water affects fish fast-starts: escape performance of the Hawaiian stream goby, *Sicyopterus stimpsoni*. *Journal of Experimental Biology*. 219: 3100-3105.
- 2014 **Diamond KM**, Trovillion D, Allen KE, Malela KM, Noble DA, Powell R, Eifler D, Gifford ME. Individual (co)variation in locomotor performance and field behavior in Curly-tailed Lizards, *Leiocephalus carinatus*. *Journal of Zoology*. 294: 248-254.

Grants, Fellowships, and Awards

- 2018 Clemson Professional Enrichment Grant (\$648)
- 2017 Society for Integrative and Comparative Biology Fellowship of Graduate Student Travel (\$2000)
Biological Sciences Graduate Student Association Commitment to Service
Biological Sciences Graduate Student Association, Travel Award (\$400)
Clemson Professional Enrichment Grant (\$750)
- 2016 American Society of Ichthyologists and Herpetologists Edward C. Raney Grant (\$800)
Biological Sciences Graduate Student Association, Travel Award (\$400)
Clemson Professional Enrichment Grants (\$750, \$302, \$414)
- 2015 Biological Sciences Graduate Student Association, Travel Award (\$300)
- 2014 Biological Sciences Graduate Student Association Commitment to Research
Sigma Xi Grant-in-Aid of Research (\$1000)
Clemson Professional Enrichment Grant (\$650)

- 2012 Student Government Association Travel Award (\$300)
- 2011 Innovation through Institutional Integration Fellowship (2011-2013)
- 2010 Research and Mentoring Program Scholarship (20110-2011)
- 2010 Work Force Central Florida Grant for Undergraduate Research
- 2009 Florida Bright Futures Scholarship (2009-2013)

Oral Presentations

- 2018 Take it or leave it. Fast-start modulation in the great sculpin *Myoxocephalus polyacanthocephalus*. LM Penrod, A Daddino, **KM Diamond**, JL Johansen, JF Steffensen, P Domenici. Annual SICB meeting. San Francisco, CA
- 2017 Locomotor performance over the course of migration events in the amphidromous goby fish, *Sicyopterus stimpsoni*. **KM Diamond**, RW Blob. Southeastern SICB meeting. Blacksburg, VA

Comparative escape performance of prey fish species that face different degrees of range overlap with predators. **KM Diamond**, HL Schoenfuss, JA Walker, RW Blob. Clemson Biological Sciences Annual Student Symposium. Clemson, SC (3rd place oral presentation)

Does ontogenetic environment influence escape response? Comparative escape responses of goby fishes through ontogeny and among islands. **KM Diamond**, HL Schoenfuss, JA Walker, RW Blob. Annual SICB meeting. New Orleans, LA
- 2016 Does ontogenetic environment correlate with escape behavior in fish? **KM Diamond**, HL Schoenfuss, JA Walker, and RW Blob. Southeastern SICB meeting. Durham, NC

Is fish escape performance influenced by flow? Tests in the Hawaiian stream goby, *Sicyopterus stimpsoni*. **KM Diamond**, HL Schoenfuss, JA Walker, and RW Blob. Annual SICB meeting. Portland, OR

Waterfall-climbing performance of gobiid fishes from La Réunion: how conservative are novel functional behaviors? RS Bertram, HL Schoenfuss, R Lagrade, D Ponton, **KM Diamond**, T Offerle, and RW Blob. Annual SICB meeting. Portland, OR
- 2015 Impacts of flow speed and attack direction on the fast-start escape response of the Hawaiian goby, *Sicyopterus stimpsoni*. **KM Diamond**, HL Schoenfuss, JA Walker, and RW Blob. Southeastern SICB meeting. Atlanta, GA.

Just keep swimming! Testing effects of flow speed and stimulus direction on escape behavior in a Hawaiian gobioid. **KM Diamond**. Clemson Biological Sciences Annual Student Symposium. Clemson, SC

Fast-start escape behavior in juvenile Hawaiian Gobies, *Sicyopterus stimpsoni*: testing effects of flow speed and stimulus direction. **KM Diamond**, HL Schoenfuss, JA Walker, and RW Blob. Presented at: Southeastern SICB meeting. Chapel Hill, NC (2014) and Annual SICB meeting. West Palm Beach, FL (2015)

2014 Sistemática y biogeografía de *Bothriechis schlegelii* (Berthold, 1846) (Serpentes: Viperidae), una aproximación molecular y morfológica. JP Hurtado Gómez, **KM Diamond**, CL Parkinson, and JM Daza Rojas. IV Congreso Colombiano de Zoología. Cartagena de Indias, Colombia

Combined morphological and molecular analysis of rattlesnake phylogeny. AM Fenwick, **KM Diamond**, CL Parkinson. Southwestern Association of Naturalists Annual Meeting. Stillwater, OK

How water velocity effects predator-prey interactions in Hawaiian streams. **KM Diamond**. Clemson Biological Sciences Annual Student Symposium. Clemson, SC

2011 Combined morphological & molecular analysis of rattlesnake phylogeny: AM Fenwick, **KM Diamond**, CL Parkinson. Biology of the Rattlesnakes Symposium. Tucson, AZ

Poster Presentations

*Undergraduate student

2018 Where to find the best bugs: A study of habitat use among lizard species with different movement strategies. EA McAlpine-Bellis*, GE Garrison, S Gilbert Smith*, JRV Klein*, KL Utsumi*, **KM Diamond**, D Eifler, M Eifler. Annual SICB meeting. San Francisco, CA

Does the form of stress matter? A comparison of Pacific sand lance (*Ammodytes hexapterus*). A Daddino, **KM Diamond**, L Penrod, JL Johansen, JF Steffenson, P Domenici. Annual SICB meeting. San Francisco, CA

Do the best come first? Locomotor performance over the course of migration events in the amphidromous goby fish, *Sicyopterus stimpsoni*. **KM Diamond**, HL Schoenfuss, RW Blob. Annual SICB meeting. San Francisco, CA

2017 Assessing the impacts of environmental contaminants on escape behavior in the migratory stream goby *Sicyopterus stimpsoni*. AM Rubin*, **KM Diamond**, HL Schoenfuss, RW Blob. Annual SICB meeting. New Orleans, LA & Clemson Biological Sciences Annual Student Symposium. Clemson, SC (2nd place in best poster)

Comparative Waterfall Climbing Kinematics of Goby Fishes from Hawai'i and Réunion: Are Recently Evolved Behaviors Less Variable? RM Keeffe*, **KM Diamond**, R Lagarde, D Proton, RS Bertram, HL Schoenfuss, RW Blob. Annual SICB meeting. New Orleans, LA

Mechanical specializations of the fin rays in waterfall-climbing gobiid fishes. NK Taft, BN Taft, **KM Diamond**, HL Schoenfuss, RW Blob. Annual SICB meeting. New Orleans, LA

- 2016 Field observation of intraspecific and predatory attack behaviors of the Hawaiian sleeper fish, *Eleotris sandwicensis*. AM Rubin*, **KM Diamond**, HL Schoenfuss, and RW Blob. Presented at Annual SICB meeting. Portland, OR & Clemson Biological Sciences Annual Student Symposium. Clemson, SC
- 2014 Evolutionary history and polymorphism of the Eyelash Palm Pitviper (*Bothriechis schlegelii*). **KM Diamond**, JP Hurtado Gómez, JM Daza Rojas, CL Parkinson. Biology of the Pitvipers Symposium. Tulsa, OK
- Individual variation in locomotor performance and field behavior in Northern Curly-tailed Lizards (*Leiocephalus carinatus*): **KM Diamond***, ME Gifford, and R Powell. Annual SICB meeting. Austin, TX
- 2013 Evolutionary history and polymorphism in the Eyelash Palm Pit-viper (*Bothriechis Schlegelii*): **KM Diamond**, and CL Parkinson. Presented at: Southeastern Ecology and Evolution Conference and Showcase of Undergraduate Research. Orlando, FL
- 2012 Phylogeny of rattlesnakes (*Crotalus and Sistrurus*) based on morphological and molecular data: **KM Diamond**, AM Fenwick, CL Parkinson. Presented at: Southeastern Ecology and Evolution Conference. Clemson, SC and Showcase of Undergraduate Research. Orlando, FL
- 2011 Understanding Evolutionary Relationships of Rattlesnakes (*Crotalus and Sistrurus*): **KM Diamond**, AM Fenwick, CL Parkinson. Showcase of Undergraduate Research. Orlando, FL

Teaching Experience

- 2014-Present Creative Inquiry Mentor. Clemson University
Trained and oversaw independent projects of 6 undergraduate students
- 2013-Present Graduate teaching assistant. Clemson University
Labs: Vertebrate Biology, Human Physiology, Mammalogy, Comparative Vertebrate morphology
- 2014-2016 Clemson Natural History Museum. Laboratory and Website Development
Developed content and created [online interactive display](#)
- 2014-2016 Guest lecture. Clemson University. Vertebrate Biology & Comparative Physiology

Service Activities

- 2018 Served on panel for 'writing a competitive travel grant' at the annual SICB meeting. San Francisco, CA
- 2018 Organized Brown bag seminar series to highlight graduate student research
- 2017- present Clemson Hope- Paw pals helping elementary school students to improve writing skills
- 2017 Tiger Talks encouraging elementary school students to pursue their interests in STEM

- 2016-Present Biological Sciences representative for the College of Engineering and Sciences Student Advisory Board- *PR committee and Outreach committee*
- 2016 Session moderator at the International Congress of Vertebrate Morphology
- 2016-Present New foundations home for children mentor
- 2015-2016 Bring Your Daughter to Clemson Day
- 2014 - 2016 Clemson Relay for Life team member
- 2013-2015 Graduate School Application Workshop
- 2013 & 2016 What is a scientist lecture at Pendelton High School. "What is research?"
- 2011-2013 Internet Science and Technology Fair primary school team mentor

Affiliations

- 2017 – Present Society for the Study of Evolution
- 2015 – Present International Society of Vertebrate Morphology
- 2014 – Present American Society of Ichthyologists and Herpetologists
- 2013 – Present Society for Integrative and Comparative Biology
- 2013 – Present Clemson Biological Sciences Graduate Student Association
Member 2013-Present. Officer 2014-2015 & 2018