

# Kelly M Diamond

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## Academic Preparation

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- 2020 Ph.D. Biological Sciences, Clemson University, Clemson, SC  
*How selection impacts species distributions in amphidromous gobies*
- 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

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- 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*. In press.
- 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

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- 2017 Society for Integrative and Comparative Biology Fellowship of Graduate Student Travel (\$2000)
- 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)
- 2011-2013 Innovation through Institutional Integration Fellowship
- 2010-2011 Research and Mentoring Program Scholarship
- 2010 Work Force Central Florida Grant for Undergraduate Research
- 2009-2013 Florida Bright Futures Scholarship

**Oral Presentations**

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\*Presenting Author

- 2017 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 (3<sup>rd</sup> place in best 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 meeting for the Society of Integrative and Comparative Biology, New Orleans, LA

- 2016 Does ontogenetic environment correlate with escape behavior in fish? **KM Diamond\***, HL Schoenfuss, JA Walker, and RW Blob. Southeastern meeting for the Society of Integrative and Comparative Biology, 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 meeting for the Society of Integrative and Comparative Biology, 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 meeting for the Society of Integrative and Comparative Biology, 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 meeting of the Society of Integrative and Comparative Biology, 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 meeting for the Society of Integrative

and Comparative Biology, Chapel Hill, NC (2014) and Annual meeting for the Society of Integrative and Comparative Biology, 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, Oklahoma State University
- How water velocity effects predator-prey interactions in Hawaiian streams: **KM Diamond**\*. Clemson Biological Sciences Annual Student Symposium, Clemson University
- 2011 Combined morphological & molecular analysis of rattlesnake phylogeny: AM Fenwick\*, **KM Diamond**, CL Parkinson. Biology of the Rattlesnakes Symposium, Tucson, Arizona

### **Poster Presentations**

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\*Presenting Author

- 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 meeting for the Society of Integrative and Comparative Biology, New Orleans, LA & Clemson Biological Sciences Annual Student Symposium, Clemson, SC (2<sup>nd</sup> place in best undergraduate 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 Pnoton, RS Bertram, HL Schoenfuss, RW Blob. Annual meeting for the Society of Integrative and Comparative Biology, 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 meeting for the Society of Integrative and Comparative Biology, 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 meeting for the Society of Integrative and Comparative Biology, 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. Society of Integrative and Comparative Biology National 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, Orlando, FL and Showcase of Undergraduate Research, University of Central Florida
- 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, South Carolina and Showcase of Undergraduate Research, University of Central Florida
- 2011 Understanding Evolutionary Relationships of Rattlesnakes (*Crotalus and Sistrurus*): **KM Diamond\***, AM Fenwick, CL Parkinson. Showcase of Undergraduate Research, University of Central Florida

## Teaching Experience

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- 2014-Present Creative Inquiry Mentor. Clemson University  
*Trained and oversaw independent projects of 3 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 (August 16, 2014; October 15, 2015; October 25, 2016) & Comparative Physiology (November 14, 2014)

## Professional Development

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- 2015 National Institute for Mathematical and Biological Synthesis Tutorial on Evolutionary Quantitative Genetics
- 2014 Big Island Water Resources Meeting. University of Hawaii. Hilo, HI
- 2013 Southeastern Regional conference for the Society of Integrative and Comparative Biology. Georgia Technological University, Atlanta, GA

**Service Activities**

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- 2017           Clemson Hope- Paw pals and 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           Elementary School Science Book Donation
- 2016           Guest lecture at Pendelton High School. "You are a scientist, let's prove it!"
- 2015-2016     Bring Your Daughter to Clemson Day
- 2014 - 2016    Clemson Relay for Life team member
- 2013-2015     Graduate School Application Workshop
- 2013           Guest lecture at Pendelton High School. "What is research?"
- 2011-2013     Internet Science and Technology Fair primary school team mentor

**Affiliations**

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- 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*