# Kinsey N. Tedford

Office: 350 Clark Hall

Department of Environmental Sciences

	iversity of Virginia	Phone:	
Charlottesville, VA 22904 USA		Email: ktedford@virginia.edu	
EDUCATION 2018-presen		<b>(cology)</b> , University of Virginia, GPA 3.95	
2018		al Oklahoma, with honors; GPA 4.0	
2015		l Oklahoma; Overall GPA 3.64, Major GPA 4.0	
RESEARCH EXPERIENCE			
2018- prese	Virginia, Virginia Coast Reserve L	ept. of Environmental Sciences, University of ong Term Ecological Research (VCR LTER).	
2015-18	Graduate Research Assistant, De	ept. of Biology, University of Central Oklahoma.	
2014-18	<b>Student Museum Curator</b> , Unive Museum, Invertebrate Collection, I	rsity of Central Oklahoma Natural History Edmond, OK.	
2016-17	<b>Research Assistant</b> , Cayman Islan Islands. Mentors: Jane Haakonsson	ds Dept. of Environment, Grand Cayman, Cayman, Jessica Harvey, and Fred Burton	
2014-15	Research Assistant, Dept. of Biolo	ogy, University of Central Oklahoma.	
2012	<b>Aquarist Intern</b> , Oklahoma City Z Mentor: Amanda Fitzgerald (Fall).	Zoo & Botanical Garden, Oklahoma City, OK.	
AWARDS & RECOGNITIONS			
2020 University of Virginia Dept. of Environmental Sciences Graduate Ecology Award (\$500)			
2020	C. Hall Scholar Award, University of Central Oklahoma		
2019	pastal & Estuarine Research Federation Travel Award (\$150)		
2018	niversity of Virginia Dept. of Environmental Sciences Travel Support Award (\$650)		
2018	University of Central Oklahoma Outstand		
2015		Biology Lothar Hornuff Field Biology Award	
2015	Sigma Xi Research Society Student Choice	ce Award	
PEER-REVIEWED PUBLICATIONS			
2019	Bass, D. & K.N. Tedford. First report of	a population of freshwater caridean shrimp line cave on Grand Cayman. <i>Caribbean Journal of</i>	
2018	Bass, D., Gaskin, B., & Tedford, K.N. M.	Stern Oklahoma spring. <i>Proc. Okla. Acad. Sci.</i> ,	
2017	Bass, D., Gaskin-Lack, & Tedford, K.N.	Macroinvertebrate community structure and do spring. <i>Proc. Okla. Acad. Sci.</i> , 97:41-46.	
2015	- ·	orate community structure and physicochemical	
2015	Bass. D., <b>Tedford, K.N.</b> , Harlin, C.B., & Scolopendromorph centipedes in Oklahon	Shelley, R.M. Additional distribution records of ma. <i>Proc. Okla. Acad. Sci.</i> , 95:93-95.	
In prep		D. Coastal migration of the black land crab, sland (target journal: J. of Crustacean Biology).	

# **REPORTS & THESES**

Tedford, K.N. Population structure and reproductive migration of land crabs on Grand Cayman Island. Master's Thesis. University of Central Oklahoma, Edmond, OK.

Tedford, K.N. Land Crab Report on the Status of *C. guanhumi* and *G. ruricola* on Grand Cayman. Cayman Islands Dept. of Environment, Grand Cayman, Cayman Islands.

### **GRANTS & FELLOWSHIPS**

Active

- 2020-21 The Explorers Club Washington Group, Exploration and Field Research Grant. "Restoring and sustaining Virginia's oyster reefs: spatial drivers of oyster populations across multiple spatial scales." (\$1,554)
- Virginia Sea Grant, Graduate Research Fellowship. "Restoring and sustaining Virginia's oyster reefs: spatial drivers of oyster populations across multiple scales." (\$81,557)

Completed

- Dept. of Environmental Sciences, University of Virginia, Graduate Academic Review Committee Exploratory Research Award. "Restoring and sustaining Virginia's oyster reefs: spatial drivers of oyster populations across multiple scales." (\$1,245)
- 2016-17 Research, Creative & Scholarly Activities Grant, University of Central Oklahoma. "Population structure and shell selection of *Coenobita clypeatus* on Grand Cayman." (\$1,555)
- 2015-16 Research, Creative & Scholarly Activities Grant, University of Central Oklahoma. "Distribution patterns and reproductive migration of land crabs on a small tropical island." (\$1,555)
- Sigma Xi Club Student Research Grant, University of Central Oklahoma. "Preliminary studies of Cayman land crabs." (\$200)
- 2014-15 Research, Creative & Scholarly Activities Grant, University of Central Oklahoma. "An ecological survey of a freshwater bog in south-central Oklahoma." (\$1,390)

#### **SCHOLARSHIPS**

- 2014-18 Joe Ernest Vaughn Endowed Scholarship for Biosciences & Conservation
- 2015-18 Dr. Margaret W. Hamilton Endowed Scholarship
- 2014-18 University of Central Oklahoma Biology Tuition Waiver
- 2016-17 University of Central Oklahoma Legacy Master's Scholarship
- 2014-15 Marvin Mays Endowed Scholarship
- 2010-14 Quad Graphics Windhover Scholarship

# **TEACHING & MENTORSHIP**

- 2018-19 **Graduate Teaching Assistant**, Dept. of Environmental Sciences, University of Virginia. Fundamentals of Ecology Lab Fall 2018, Spring 2019
- Graduate Teaching Assistant, Dept. of Biology, University of Central Oklahoma.
   General Biology Lab Spring 2016, Fall 2017, Spring 2018 (Instructor of Record)
   Marine Ecology Lab Spring 2016, Spring 2018
   Invertebrate Zoology Lab Fall 2015, Fall 2016, Fall 2017
   Freshwater Ecology Lab Spring 2017

# *Undergraduate students mentored in research*

- 2018-20 University of Virginia, 6 students (E. Daly, E. Bieri, S. Cheng, S. Rosenberg, S. Lakshman, and E. Eareckson)
- 2015-18 University of Central Oklahoma, 3 students (J. McDonald, G. Rucci, and B. Easton)

# PRESENTATIONS (AS LEAD AUTHOR)

- Tedford, K.N., S. Rosenberg, M.C.N. Castorani. *Restoring Virginia's oyster reefs:*environmental controls on oyster recruitment and survival across spatial scales. Virginia Sea
  Grant Graduate Research Symposium, Richmond, VA.
- 2019 Tedford, K.N. & M.C.N. Castorani. *Restoring Virginia's oyster reefs: environmental Controls on oyster recruitment, growth, and survival across spatial scales*. Coastal & Estuarine Research Federation, Mobile, AL.

- 2019 Tedford, K.N. & M.C.N. Castorani. Restoring Virginia's oyster reefs: environmental controls on oyster recruitment, growth, and survival across spatial scales. Western Society of Naturalists, Ensenada, MX.
- Tedford, K.N., E. Daly, & M.C.N. Castorani. *Spatial patterns of consumer communities across a restored seagrass landscape*. Western Society of Naturalists, Seattle, WA.
- Tedford, K.N. & D. Bass. Coastal migration of the black land crab (Gecarcinus ruricola) on Grand Cayman. UCO Three Minute Thesis (3MT), Edmond, OK.
- Tedford, K.N. & D. Bass. Coastal migration of the black land crab (Gecarcinus ruricola on Grand Cayman. Oklahoma Research Day, Alva, OK.
- Tedford, K.N. & D. Bass. Coastal migration of the black land crab (Gecarcinus ruricola on Grand Cayman. AAAS Annual Meeting, Austin, TX.
- Tedford, K. & D. Bass. *Coastal migration of the black land crab (Gecarcinus ruricola on Grand Cayman*. Annual Meeting of the Oklahoma Academy of Science, Claremore, OK.
- Tedford, K.N. & D. Bass. *Coastal migration of Gecarcinus ruricola on Grand Cayman*. Cayman Islands Dept. of Environment, Grand Cayman, Cayman Islands.
- Tedford, K.N. & D. Bass. *Population structure and reproductive migration of land crabs on Grand Cayman*. Oklahoma Research Day, Enid, OK.
- 2016 Tedford, K.N. & D. Bass. *Grand Cayman land crabs*. University of Central Oklahoma Tri-Beta Biology Club, Edmond, OK.
- Tedford, K.N. & D. Bass. *Preliminary results of 2016 Grand Cayman land crabs investigation*. Cayman Islands Dept. of Environment, Grand Cayman, Cayman Islands.
- Tedford, K.N. & D. Bass. *Population structure and reproductive migration of land crabs on a small tropical island*. University of Central Oklahoma Tri-Beta Biology Club, Edmond, OK.
- Tedford, K.N. & D. Bass. *Population structure and reproductive migration of land crabs* (*Brachyura: Gecarcinidae*) on a small tropical island. Oklahoma Research Day, Alva, OK.
- Tedford, K.N. & D. Bass. *A student's journey from an Oklahoma bog to a tropical island.* Featured Student Research at University of Central Oklahoma College of Mathematics & Science Donors Appreciation Dinner, Edmond, OK.
- 2015 Tedford, K.N. & D. Bass. *Macroinvertebrate community structure and physicochemical conditions of a southeastern Oklahoma bog*. Annual Meeting of the Oklahoma Academy of Science, Oklahoma City, OK.
- Tedford, K.N. & D. Bass. *Macroinvertebrate ecology of a southeastern Oklahoma quaking bog*. Sigma Xi Student Research Conference, Kansas City, MO.
- Tedford. K.N. & D. Bass. *An ecological survey of a freshwater bog in south-central Oklahoma*. Oklahoma Research Day, Tahlequah, OK.

# PROFESSIONAL SERVICE

- 2020 **Graduate Representative**, VCR LTER.
- 2019-20 **Social Chair**, Dept. of Environmental Sciences, University of Virginia, Charlottesville, VA.
- Moderator, Coastal & Estuarine Research Federation Meeting, Mobile, AL. (Nov.).
- 2019 **Undergraduate Presentation Judge**, Coastal & Estuarine Research Federation Meeting, Mobile, AL. (Nov.).
- 2019 **Prospective Student Ambassador**, Dept. of Environmental Sciences' Prospective Graduate Student Weekend, University of Virginia, Charlottesville, VA. (Feb.-Mar.).
- 2016-18 **Contributing Editor**, *1890: A Journal of Undergraduate Research*, University of Central Oklahoma, Edmond, OK.
- 2016-18 Volunteer Judge, Central Regional Science and Engineer Fair, Edmond, OK.
- 2014-17 **Registration Assistant.** Oklahoma Academy of Science, OK.
- Field Technician, Cayman Islands Dept. of Environment, Grand Cayman, Cayman Islands (Dec.).

- 2015 **Participant**, University of Central Oklahoma Alternative Spring Break, Padre Island Sea Turtle Recovery Program, Corpus Christi, TX. (Mar.).
- 2012-14 Volunteer, Oklahoma City Zoo & Botanical Garden, Oklahoma City, OK.
- 2014 **Participant**, University of Central Oklahoma Alternative Spring Break, Grand Canyon Environmental Project Program, Flagstaff, AZ. (Mar.).
- Volunteer Research Assistant, Dept. of Biology, University of Central Oklahoma, Edmond, OK.

#### PROFESSIONAL DEVELOPMENT

- 2019 **Invited Panelist**, "Making an impact: Lessons from collaborative science", The Nature Conservancy NatureNet Science Symposium, Charlottesville, VA.
- 2019 **Invited Attendee**, Alda Alda Science Communication Workshop, VIMS, Gloucester Point, VA.
- 2017 **Invited Attendee**, AAAS Catalyzing Advocacy in Science and Engineering Workshop, Washington D.C.

# SCIENTIFIC OUTREACH & COMMUNICATION

- Virtual Teacher's Workshop on Oyster Habitat Restoration, The Nature Conservancy's Virginia Coast Reserve.
- VCR LTER Outreach Event, Coastal Research Center, Oyster, VA.
- 2019 Migrate? What if you can't move?! *Eastern Shore* Newsletter, 41:42.
- VCR LTER Outreach Event, At Altitude Gallery, Cape Charles, VA.
- Coastal migration of the black land crab (*Gecarcinus ruricola*) on Grand Cayman Island. Cayman Islands Dept. of Environment *Flicker* Newsletter, 37:5-8.
- 2017 Crabtivating creatures! Cayman Islands Dept. of Environment *Flicker* Newsletter, 31:7-9.
- 2015 Land crab study to commence on Grand Cayman. Cayman Islands Dept. of Environment *Flicker* Newsletter, 21:2-4.

## **PROFESSIONAL SOCIETIES**

Sigma Xi Research Society, The Western Society of Naturalists, Coastal and Estuarine Research Federation, American Association for the Advancement of Science (AAAS), and Beta Beta Biological Honor Society (Psi Mu Chapter).

# **CERTIFICATIONS**

2018	CPR Certification, American Heart Association	
2018	First Aid Certification, American Red Cross	
2018	Virginia Boater Education Certification	
2018	IACUC Safety Training	

2012 PADI Open Water, Advanced Open Water Diver, and Rescue Diver Certifications (>200 dives)

## RESEARCH SKILLS

Capture & collection: mist net (bats), Sherman live trap (small rodents); seine, hook & line (fish); hand-capture (iguanas, land crabs); crab pots (blue crabs); pitfall traps, D-ring dip net, kick net, Surber net, petite ponar bottom grab, berlese funnel, Van Dorn water bottle, sediment cores (infauna), throw traps (epifauna) (macroinvertebrates, largely aquatic)

Sampling: standard biological parameter measurements (birds, small mammals, iguanas, fish, macroinvertebrates, plants) and water quality

Devices/equipment: Trimble R10 GNSS, Emlid RTK GNSS Reach RS+, compass, clinometer, increment borer (tree cores), anemometer, secchi disc, spectrophotometer, remote camera systems (GoPro), operation of outboard boats (<20ft), data loggers (HOBO, RBR)

Software: R & RStudio, Github, ImageJ, QGIS, Slack, HOBOware

REFERENCES

Max Castorani, Ph.D. Assistant Professor, Dept. of Environmental Sciences, University of

Virginia, Charlottesville, VA

434-243-4949, castorani@virginia.edu

David Bass, Ph.D. Professor of Biology & Curator of Invertebrates, Dept. of Biology,

University of Central Oklahoma, Edmond, OK

405-974-2722, dbass@uco.edu

Cora Johnston, Ph.D. Site Director, Coastal Research Center

(Virginia Coast Reserve Long Term Ecological Research),

Cape Charles, VA

757-331-1246, caj2dr@virginia.edu

Jane Haakonsson, M.S.

Terrestrial Research Officer II, Cayman Islands Dept. of Environment,

Grand Cayman, KY1-1002, Cayman Islands 345-949-8469, Jane.Haakonsson@gov.ky