Kinsey N. Tedford

Department of Environmental Sciences Office: 350 Clark Hall University of Virginia Phone: Charlottesville, VA 22904 USA Email: ktedford@virginia.edu **EDUCATION** 2018-present Ph.D. Environmental Sciences (Ecology), University of Virginia, GPA 3.95 Advisor: Dr. Max Castorani 2018 M.S. Biology, University of Central Oklahoma, with honors; GPA 4.0 Advisor: Dr. David Bass 2015 **B.S. Biology**, University of Central Oklahoma; Overall GPA 3.64, Major GPA 4.0 RESEARCH EXPERIENCE 2018- present Graduate Research Assistant, Dept. of Environmental Sciences, University of Virginia, Virginia Coast Reserve Long Term Ecological Research (VCR LTER). Graduate Research Assistant, Dept. of Biology, University of Central Oklahoma. 2015-18 2014-18 Student Museum Curator, University of Central Oklahoma Natural History Museum, Invertebrate Collection, Edmond, OK. 2016-17 Research Assistant, Cayman Islands Dept. of Environment, Grand Cayman, Cayman Islands. Mentors: Jane Haakonsson, Jessica Harvey, and Fred Burton Research Assistant, Dept. of Biology, University of Central Oklahoma. 2014-15 Aquarist Intern, Oklahoma City Zoo & Botanical Garden, Oklahoma City, OK. Mentor: 2012 Amanda Fitzgerald (Fall). **AWARDS & RECOGNITIONS** 2020 University of Virginia Dept. of Environmental Sciences Graduate Ecology Award (\$500) E.C. Hall Scholar Award, University of Central Oklahoma 2020 2019 Coastal & Estuarine Research Federation Travel Award (\$150) 2018 University of Virginia Dept. of Environmental Sciences Travel Support Award (\$650) University of Central Oklahoma Outstanding Biology Graduate Student Award 2018 University of Central Oklahoma Dept. of Biology Lothar Hornuff Field Biology Award 2015 2015 Sigma Xi Research Society Student Choice Award PEER-REVIEWED PUBLICATIONS 2019 Bass, D. & K.N. Tedford. First report of a population of freshwater caridean shrimp Macrobrachium carcinus from an anchialine cave on Grand Cayman. Caribbean Journal of Science., 49:293-294. Bass, D., Gaskin, B., & Tedford, K.N. Macroinvertebrate community structure and 2018 physicochemical conditions of a northwestern Oklahoma spring. Proc. Okla. Acad. Sci., 98:6 2017 Bass, D., Gaskin-Lack, & Tedford, K.N. Macroinvertebrate community structure and physicochemical conditions of a Desperado spring. Proc. Okla. Acad. Sci., 97:41-46. 2015 Tedford, K.N. & D. Bass. Macroinvertebrate community structure and physicochemical conditions of a southeastern Oklahoma bog. Proc. Okla. Acad. Sci., 95:96-103. 2015 Bass. D., Tedford, K.N., Harlin, C.B., & Shelley, R.M. Additional distribution records of Scolopendromorph centipedes in Oklahoma. Proc. Okla. Acad. Sci., 95:93-95. **Tedford, K.N.**, Haakonsson, J., & Bass, D. Coastal migration of the black land crab, *In prep*

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.

Gecarcinus ruricola, on Grand Cayman Island.

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

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The Graduate School of Arts and Sciences, University of Virginia. (\$750)

Active

- 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

- 2018-21 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)

- 2020 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.
- 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.

- 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.
- 2017 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.
- 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 crab 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.
- 2016 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.
- 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

- 2020-21 **Sustainability Committee**, Dept. of Environmental Sciences, University of Virginia, Charlottesville, VA.
- 2020-21 **Graduate Representative**, VCR LTER.
- 2019-20 **Social Chair**, Dept. of Environmental Sciences, University of Virginia, Charlottesville, VA.
- 2019 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

- Skype A Scientist.
- 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.
- ²⁰¹⁷ 'The Dead Zoo', University of Central Oklahoma Natural History Museum (1st and 2nd graders), Edmond, OK.
- 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 Beta Biological Honor Society (Psi Mu Chapter).

CERTIFICATIONS

- 2020 LTER Bystander Intervention Training
- 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, Git & 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