

Postdoctoral research fellow and graduate student/technician opportunities in marine turtle genomics & climate change resilience at UMass Amherst

Summary: We are seeking a postdoctoral fellow and graduate student or technician to work on a collaborative research project using genomic tools to understand how mating systems may influence the resilience of sea turtles and other temperature dependent sex-determined species to climate change. The scholars will split time between the University of Massachusetts Amherst (lab work) and Fernando de Noronha, Brazil (field work), operating as part of a larger interdisciplinary team with Florida State University, Oregon State University and Projecto TAMAR (with some likely travel to collaborating institutions). The personnel in these positions will co-lead genetic sampling of nesting, hatchling and in-water green turtles in the field followed by high-throughput genotyping and kinship analyses in the laboratory. More details of the broader scope of the project can be [accessed here](#).

This project is supported by NSF-IOE, with the length of positions commensurate with the different positions (expected 2yrs for postdoc with possibility of extension; PhD student accepted through the [UMass Organismic and Evolutionary Biology](#) program; technician position timeline negotiable depending on interests in the field and/or laboratory components). Specific start date is flexible, but preferably within late fall/early spring 2019 to coincide with field seasons (postdoc/technician) or Fall 2020 academic year (for graduate student). Opportunities to collaborate or lead other ongoing projects in the lab such as leatherback turtle whole genome analyses and comparative functional genomics are available and encouraged depending on interests and skills. There is an additional opportunity for the postdoctoral fellow to teach an Applied Ecology course Spring 2020.

To Apply: Please send 1) a CV inclusive of experience (field, laboratory and bioinformatics), publications and awards, and 2) a cover letter discussing qualifications, research interests and motivations for this position to ikomoroske@umass.edu, with the subject line: "Marine Turtle Genomics Postdoc/Graduate student/Technician (*pick appropriate one*)" so that it can be easily recognized. **For full consideration, please apply by Sept. 3rd 2019.**

Salary: Salary and benefits are consistent with University of Massachusetts, Amherst policy and applicant experience. UMass Amherst is an Equal Opportunity Employer; members of underrepresented groups in STEM are strongly encouraged to apply.

Desired Qualifications:

Note some differ by position level as appropriate, as indicated in italics

- A degree in Ecology and/or Evolutionary Biology, Animal Biology, or a closely related field as appropriate for position *PhD for postdoc; MS, BS or equivalent for graduate student/technician*
- Experience with working in a molecular laboratory, preferably employing high-throughput genotyping/genomic approaches for wildlife/non-model species. *Experience level expected commensurate with position*
- Field experience, particularly working in remote locations and/or conducting sea turtle nesting beach and in-water research. *Experience level expected commensurate with position*
- Strong analytical skills including demonstrated bioinformatics and statistical proficiency to conduct genomic and kinship analyses, e.g., R and/or python, experience working with HPC platforms. *Experience level expected commensurate with position*

- Experience designing, planning, and conducting research projects, including the ability to meet project goals in a timely manner, and follow through on project deliverables.
- Demonstrated capacity to communicate research findings both at professional meetings and in high quality peer-reviewed journals. *Experience level expected commensurate with position*
- Excellent technical, analytical, organizational, and problem-solving skills.
- Strong attention to detail, and meticulous work style, as evidenced by previous research/experience.
- Strong interpersonal and communication skills and the ability to work both independently and collaboratively with researchers from different scientific backgrounds, including international NGO partners and stakeholders.
- Previous experience managing, mentoring, or otherwise overseeing staff, graduate or undergraduate students. *Postdoc*
- A demonstrated capability to think critically about the practical application of research outcomes.
- Proficiency in Portuguese is not required but highly valued.

Principal Investigators:

Lisa Komoroske, *University of Massachusetts, Amherst*

Mariana Fuentes, *Florida State University*

J. Wilson White, *Oregon State University*