# Norman Greenhawk

HC-63, Buzon 3879, Route 184, Km 15.9

Patillas, Puerto Rico 00723

Phone: 001-410-924-8438

Email: greenhawk81@gmail.com

## Professional Profile

I have 4.5 years of experience conducting herpetological field work in tropical forest ecosystems, as well as related experience with data analysis and report writing. I have ten years of experience with captive husbandry and care of amphibians and reptiles from a privately owned collection. My work has allowed me to develop the following skills that I feel are relevant to any future herpetological research I conduct.

• Oversee herpetological field work with teams of volunteers

• Captive Care and Husbandry of Reptiles and Amphibians

• Beginning to Moderate Spanish speaking skills

• Report/paper writing

• Team planning and coordination

• First Aid Certified

• CPR Certified

## Professional Experience

<u>Herpetological Conservation in Latin America: An Interdisciplinary Approach</u>

Multiple Locations in Central and South America 4/3/2013- 7/6/2013

Achievements:

La MICA Biological Field Station, El Cope, Panama

- Interviewed rural citizens of the barrio of Barrigon about their beliefs and attitudes towards snakes in particular and reptiles and amphibians in general.
- Gained valuable field training in regards to proper research criteria and design from Dr. Julie Ray, a specialist in Panamanian snakes.

Panama Amphibian Rescue and Conservation Project, Gamboa, Panama

- Returned to PARC for one month to obtain further training for ex-situ conservation tactics and methodologies for endangered and critically-endangered Panamanian frogs of the genus *Atelopus*.
- Visited the local Wounaan village to talk to indigenous villagers about their beliefs about frogs, as well as their interest in developing grassroots conservation efforts within the

community.

American Crocodile Education Sanctuary, San Pedro, Belize and Ladyville, Belize

- Obtained training in the proper methods of capturing, securing, and relocating "problem" crocodiles, including setting live-catch snares and traps, "jumping" a crocodile, jaw taping, and leg tying.
- Obtained training in captive care and maintenance of *Crocodylus acutus* and *Crocodylus morletti*.
- Visited the Maya village of San Miguel, Punta Gorda, in order to determine Maya views of reptiles and the village's relationship with local NGOs and conservation organizations.

Utila Island Iguana Station, Utila Island, Honduras

- Obtained training in the captive care and maintenance of the endemic Utila Island Iguana, a habitat specialist (lives only in mangroves) that is only found on Utila Island, in a space of about 8km2.
- Discussed the history of the iguana as a traditional food source with local Utilians.

Bolivian Amphibian Initiative

- Working with the Lake Titicaca Water Frog, *Telmatobius culeus*, and other endemic Bolivian frogs in need of conservation.
- Conducting interviews with local indigenous communities about their views of reptiles, amphibians, and conservation organizations.

Volunteer, *Panamá Amphibian Rescue and Conservation Project*

Summit Park, Gamboa, Panamá 7/2/2012-8/24/2012

Achievements:

• Redesigned and constructed breeding tank for *Craugastor punctariolus.*

• Assisted and advised in the development of the educational presentations for Golden Frog Day 2012.

Responsibilities:

• Daily cleaning of plastic and glass tanks housing live specimens of genus *Atelopus.*

• Feeding frogs.

• Sterilization of natural materials needed for tank interiors.

• Collection of plant material for tank interiors.

• Maintaining quarantine and sterilization procedures

Herpetologist, *Tropic Ventures Research and Education Foundation*

Las Casas de La Selva, Patillas, Puerto Rico 11/10/2008-Current (Sabbatical from 4/3/2013-7/6/2013)

Achievements:

• Greenhawk, N. 2013. Range extension of *Eleutherodactylus cooki*, the "Coqui Guajon", Grant, 1932 (Amphibia: Eleutherodactylidae). *Checklist* 9(5): 1046-1049.

• Paper: "Does the Presence of the Non-Native Timber Tree *Talipariti elatum* Affect Anole Seasonal Abundance in Second-growth Subtropical Forests?"(Status: Final peer-review by Dr. Julie Ray before journal submission).

• Investigation: Ongoing survey to obtain full species list of herpetofauna located on the 1,000 acres managed by Tropic Ventures.

Responsibilities:

• Leading expedition teams of volunteers to collect data as a co-principal investigator with a partnership with the Earthwatch Institute.

• Designing investigations and collecting data to aide Tropic Ventures in developing and refining sustainable forestry practices.

• Developing a comprehensive species list of herpetofauna found on the property.

• Conduct educational outreach on endangered reptiles and amphibians for local school groups and visiting volunteer groups.

Volunteer Coordinator, *Tropic Ventures Research and Education Foundation*

Las Casas de La Selva, Patillas, Puerto Rico 11/10/2008-Current (Sabbatical from 4/3/2013-7/6/2013)

Achievements:

• Developed first-ever volunteer application process for TVREF.

• Developed first-ever volunteer handbook for TVREF.

• Made new professional relationships with various Universities in the USA, now host volunteer groups from these schools annually.

Responsibilities:

• Review applications of individual volunteers.

• Coordinate travel arrangements with accepted volunteers.

• Assist team leaders of incoming volunteer groups with logistics planning for travel, housing and feeding large numbers of people.

• Coordinate daily schedule for volunteers and volunteer groups.

• Assist new volunteers in acclimating to Puerto Rico.

• Plan and oversee recreation day for volunteer groups.

## Education

Washington College, Chestertown Maryland, B.A. Environmental Studies, May 2003

## Awards

2013 Earthwatch Neville Shulman Award for Emerging Environmental Leaders

Synopsis: Every year, the Earthwatch Institute allows all of its collaborating investigators to apply for the Neville Shulman Award, which is awarded to two individuals who demonstrate the capacity as an "emerging environmental leader". The award is to be used for a combination of research and personal training/development. My proposal, "Herpetological Conservation in Latin America: An Interdisciplinary Approach" was chosen from a pool of nearly 100 international applicants as one of the winners.

## References

*Thrity Vakil*

Associated Establishment(s): Tropic Ventures Research and Education Foundation

Website: www.eyeontherainforest.org

Position: Director of Tropic Ventures Research and Education Foundation

Cell Phone: 001-787-329-7761

Email: 3t@eyeontherainforest.org

Time known: Five years

Capacity known: I report directly to Thrity Vakil in my role as volunteer coordinator and herpetologist at Tropic Ventures Research and Education Foundation.

*Dr. Mark Nelson*

Associated Establishment(s): Tropic Ventures Research and Education Foundation, Institute of Ecotechnics

Website: www.eyeontherainforest.org

Position: Chair, Institute of Ecotechnics

Email: nelson@biospheres.com

Time known: Five years

Capacity known: Dr. Nelson is the head Principal Investigator for our research collaboration with the Earthwatch Institute, and as such reviews all of my research before submission.

*Dr. Roberto Ibáñez*

Associated Establishment(s): Smithsonian Tropical Research Institute, Panamá Amphibian Rescue and

Conservation Project

Project Website: www.amphibianrescue.org

Position: Project Director

Email: IBANEZR@si.edu

Time known: One year

Capacity known: During my two volunteer experiences at the Panamá Amphibian Rescue and Conservation Project, Dr. Ibáñez was in charge of the PARC facilities rearing endangered *Atelopus* frogs.

Additional references available upon request.