**Adam Eichenwald**

677 B St. Paul St • Baltimore, MD 21202 • 214-789-3974 • aeichenw@gmail.com

**Education**

**Bowdoin College**, Brunswick, ME

* B.A., Major in Biology and Environmental Studies, Minor in History, May 2014. Honors in Biology.
* *Honors Thesis*: Changes in chiropteran community structure associated with the white-nose syndrome epidemic: evidence for competitive release?

**Research and Related Work Experience**

**Patuxent Wildlife Research Center:** Laurel, Maryland (*Full time*)

*Wildlife Intern,* September 2014 – April 2015; October 2015 – Present

*Supervisor:* Jeffrey Spendelow

* Writing two manuscripts on the Roseate Tern. One discusses nest-searching after habitat destruction, the other reveals new behavior of dispersal after predation by Black-crowned Night Herons.
* Cared for Whooping Cranes in preparation for rehabilitation, breeding, and release into the wild.
* Trained an American Kestrel and an Eastern Screech Owl using falconry methods.
* Researched immunological responses to West Nile Virus in Eastern Screech Owls. Examined the evolution of immunity in brood parasites. Charged with data entry, permit requests, and grant writing.

**Bookbright Media:** Atlanta, Georgia (*Part time*)

*Science Consultant and Editor*, June 2015 – Present

Supervisor: Jamie Vidich

* Advised Bookbright Media on scientific revisions for the new version of *UXL Endangered Species* (3rd edition), a middle school ecology textbook.
* Edited entries for scientific accuracy, added relevant ecological information, and wrote new entries.

**Indiana State University:** Bloomington, Indiana (*Full time*)

*Volunteer*, July 2015 – August 2015

Supervisor: Tim Divoll

* Assisted in the research of *myotis* bats in a cross-species study.
* Captured bats with mist-nets, banded them, measured and recorded anatomical data.
* Tracked bats to roosting sites and followed their nightly foraging patterns with radio telemetry.
* Set up and took down forest insect traps. Set up and programmed ultrasonic bat detectors.

**Smithsonian Migratory Bird Center:** Atlanta, Georgia (*Full time*)

*Neighborhood Nestwatch Researcher, Atlanta Representative,* April 2015 – July 2015

Supervisor: Robert Reitsma

* Ran the Neighborhood Nestwatch program’s 2015 season in Atlanta, Georgia.
* Set up mist nets for bird trapping in clients’ backyards. Captured and banded 10 species of birds. Instructed homeowners on nest monitoring and data entry.
* Taught basic ornithology to middle and elementary school students, including ecology and banding.

**Peregrine Fund:** Naivasha, Kenya (*Full time*)

*Assistant Raptor Researcher,* June 2014 – August 2014

Supervisor: Munir Virani

* Modeled populations of African Fish Eagles from mark and recapture data.
* Surveyed African Fish Eagles around Lake Naivasha. Used Program MARK for population and survival modeling. Analyzed individual survival in connection to variations in variables over a 20-year period.
* Crafted a spatial GIS map of the population of Fish Eagles around Lake Naivasha.
* Surveyed populations of Augur Buzzards to discover changes in raptor territories over time.
* Collaborating with GIS professionals to construct a map of land use changes in the Naivasha area.

**Acadia National Park:** Brunswick/Mount Desert Island, Maine (*Part time*)

*Primary Investigator*, April 2013 – May 2014

*Supervisor:* Damon Gannon

* Devised a project to study competitive release of bats affected by white-nose syndrome.
* In collaboration with Acadia National Park and the Biodiversity Research Institute, developed a standardization method for ultrasonic acoustics recorded by varying model detectors.
* Analyzed 100,000 files of ultrasonic acoustics. Crafted a GIS map to search for ANP bats.
* Used ESRI ArcGIS, Python, and MaxEnt software to isolate locations of hibernacula.
* Designed a method to extract insect DNA from bat guano with Next-Gen Sequencing.

**Dallas Zoo**: Dallas, Texas (*Full time*)

*Giraffe and Gorilla Behavioral Research Intern*, May 2012 - August 2012

*Supervisor:* Nancy Scott

* Led a project on behavior of a giraffe herd, advised on exhibit enrichment to enhance herd’s health.
* Helped direct a project on the actions of a Western Lowland Gorilla in response to a variable environment. Assisted with an annual health check of a male gorilla.
* Gave presentations to zoo visitors about behavior, ecology, and individual animals.

**Volunteer Experience**

**Wings Over America**: Laurel, Maryland, October 2014 – April 2015 (*Part time)*

* Fed and trained birds of prey for public outreach or release into the wild.
* Crafted jesses and anklets for newly captured raptors.

**Naivasha Owl Centre:** Naivasha, Kenya, June 2014 – August 2014 (*Part time*)

* Rescued injured and trapped birds of prey and assisted in their rehabilitation
* Designed the Naivasha Owl Centre’s Facebook page.

**Publications**

* Garbus, Julia, & Berlatsky, Noah. 2016. *U•X•L Endangered Species 3rd**Ed* (A. Eichenwald ghostwriter).
* Eichenwald, A.J. 2014. An American off school learns key wildlife lessons volunteering in Kenya. *SWARA*. East African Wildlife Society, Kenya. 55-57.

**Manuscripts in Progress (Dates Show Expected Publication Year)**

* Eichenwald, A.J., Gannon, D., Divoll, T.J., Skerritt, L.A., Connery, B. (2016).Correcting for differences in recording abilities of acoustic bat detectors. Submitted to *Northeastern Naturalist*.
* Eichenwald, A.J., Gannon, D., Connery, B., Divoll, T.J. (2017). Changes in chiropteran community structure associated with the white-nose syndrome epidemic: evidence for competitive release?
* Spendelow, J. and Eichenwald, A.J. (2016). Colony-site prospecting behavior by Roseate Terns at Falkner Island.
* Spendelow, J. and Eichenwald, A.J. (2016). Rapid departure from a colony site of Roseate Terns following nest predation by Black-crowned Night-herons.
* Virani, M.Z., Eichenwald, A.J., McClure, C.J.W., Kapala, S., Harper, D. (2016). Trophic interactions between piscivorous raptors and fish: a 20-year study in a Ramsar site.
* Virani, M.Z., Eichenwald, A.J., Buechley, E. (2016). Habitat destruction and its negative effect on a raptor of least concern, the Augur Buzzard.

**Presentations**

* Patuxent Holiday Bazaar (2015), falconry methods and raptor ecology.
* Patuxent Wildlife Festival (2014), falconry methods and raptor ecology.
* Northeast Undergraduate Research and Development Symposium (2014), white-nose research.
* Acadia National Park Science Symposium (April 2014), white-nose research.
* President’s Science Symposium (2013), white-nose research.

**Awards and fellowships**

* Sarah and James Bowdoin Scholar (2014).
* Honors in Biology, Bowdoin College (2014).
* Peter J. Grua and Mary G. O’Connell Research Award (2013).
* Henry L. and Grace Doherty Charitable Foundation Coastal Studies Research Fellowship (2013).
* Top Poster Presentation, Northeast Undergraduate Research and Development Symposium (2013).

**Outside Leadership Roles**

**Chinese Kung Fu:** Shaolin Wu-Yi Institute/Kunyushan Mountain/Tai Yim Kung Fu

*Kung Fu Student and Teacher,* July 2008 – Present

**Skills**

* Computer Software: ArcGIS; SonoBat; Prism 6.0; SPSS; Program MARK.
* Field Techniques: Point counts, radio telemetry, GIS mapping and GPS tracking, population modeling and surveys, animal capture techniques, and behavioral studies.
* First Aid Certified, American Heart Association.