



MARK MANDICA

1505 WOODFERN DRIVE  
DECATUR, GEORGIA

678 379 TOAD | 8623

mark@mandica.com

## PRESENT POSITIONS

**Executive Director.** The Amphibian Foundation | [amphibianfoundation.org](http://amphibianfoundation.org)

**Affiliate Faculty.** Georgia Institute of Technology, School of Biology

**Scientific Illustrator.** *Mandica Illustration and Design, Inc.* Decatur, GA | [mandica.com](http://mandica.com)

**Author.** The Atlanta Botanical Garden's 'frog blog' | [blog.frogsneedourhelp.org](http://blog.frogsneedourhelp.org) | [@frogsneedourhelp](https://twitter.com/frogsneedourhelp)

**Professional Service Positions.** Steering Committee for Southeast Partners in Amphibian and Reptile Conservation (SEPARC); Co-chair of the Communications Group for the National *Batrachochytrium salamandrivorans* (*Bsal*) Task Force; Conservation Hero for Project Hero of the Captain Planet Foundation; Scientific Consultant for Amphibian Ark

## EDUCATION

Master of Science (M.S.) in Biology. University of Miami, Coral Gables, FL. 2008

Bachelor of Science (B.S.) in Biology, concentration in Evolutionary Biology. University of Massachusetts, Amherst, MA. 1999

Senior Thesis: *Efficiency and Efficacy of Vernal Pond Amphibian Survey Techniques*

Bachelor of Arts (B.A.) in Sociology. University of Massachusetts, Amherst, MA. 1999

Minor in Psychology. University of Massachusetts, Amherst, MA. 1999

## EXPERIENCE

### RESEARCH EXPERIENCE

- 2012 - present **Project Lead.** Collaboration with state and federal agencies to prevent the extinction of the Frosted Flatwoods Salamander, *Ambystoma cingulatum*, through captive breeding and experimental release.
- 2013 - present **Principal Investigator.** Design and implementation of the Metro Atlanta Amphibian Monitoring Program. Training citizen scientists to monitor 40+ sites in metro Atlanta, identify species and collect data on amphibian community trends. <http://maamp.us>
- 2013 **Research Assistant.** Ganser Integrative Biology Laboratory. Kennesaw State University, GA. Behavioral ecology and functional morphology of Gopher Frogs (*Lithobates capito*)
- 2011 - 2016 **Amphibian Conservation Coordinator.** Development and implementation of applied research techniques to conserve rare and threatened species in the SE US. 'Advancing the Science of Amphibian Conservation' through investigating *ex situ* captive breeding techniques with some of the world's most endangered amphibian species. Working with state and federal agencies, as well as other institutions to propagate the 'head-starting' of south east US native endangered species *Lithobates capito* (Gopher Frog) and *Ambystoma cingulatum* (Frosted Flatwoods Salamander). **Atlanta Botanical Garden**, Atlanta, GA
- 2009 - 2011 **Amphibian Specialist.** Implementation of applied research techniques to conserve rare and threatened species in the SE US through investigating *ex situ* captive breeding techniques with some of the world's most endangered amphibian species
- 2004 - 2008 **Research Assistant.** Department of the Interior Critical Ecosystems Science Initiative (CESI). *Thesis One: Amphibian Ecological Modeling in Everglades National Park.* *Thesis Two: Comparison of Photoperiod Related Activity Patterns and Non-Visual Photoreception Between Two South Florida Bufonids (Anura: Bufonidae).* **University of Miami**, Coral Gables, FL
- 2003 **Scientific Assistant.** Department of Mammalogy, Division of Vertebrate Zoology, **American Museum of Natural History**, New York, NY
- 1998 - 2002 **Field Technician.** Amphibian Population Study of Vernal Ponds in the Quabbin Watershed Management Area. Western Massachusetts. Daily surveys, data collection and analysis. Reports submitted to the **Metropolitan District Commission**.
- 2001 **Field Biologist.** Supervised research team on a meta-population study of the **Marbled Salamander** (*Ambystoma opacum*). Natural Resources Conservation, **University of Massachusetts**, Amherst, MA
- 2001 **Spotted turtle** (*Clemmys guttata*) survey of Lily Pond, Vernon, VT. Report submitted to **Vermont Fish and Wildlife** Department, Waterbury, VT
- 2000 **Field Technician.** Small Mammal Survey of the Quabbin Watershed Management Area. Natural Resources Conservation. **University of Massachusetts**, Amherst, MA
- 1998 **Field Technician.** Herpetological survey of Satan's Kingdom Wildlife Management Area, Northfield, MA. Report submitted to **Massachusetts Natural Heritage Program**, Westboro, MA  
**Techniques include:** audio/visual diurnal and nocturnal sampling, terrestrial and aquatic transecting, drift fencing with pitfalls and funnel trapping and radio telemetry. Retrograde neuron labeling and confocal microscopy, time-lapse and high-speed videography, analytic and statistical analyses, PAO modeling

### TEACHING EXPERIENCE and OUTREACH

- 2016 Partnered with the Atlanta Science Tavern and produced the Ribbit Exhibit, a three week scientific illustration exhibition featuring the artwork of young illustrators to benefit amphibian conservation. Decatur, GA
- 2012 - present Internship Program. Design and assistance of research based internships using the amphibian conservation collections: ecology, conservation, taxonomy, functional morphology, phenotypic plasticity and scientific illustration.



- 2014 Co-instructor, **Biomechanics of Amphibian Feeding**, BIOL 4590 GA Tech School of Biology, ABG
- 2012 Development and instruction of college-level amphibian biology, ecology and conservation course for **Duke University**. New College of Florida. Sarasota, FL. **Duke University TIP**
- 2009 - present Elementary through college level formal and informal lectures on the topics of basic amphibian biology, conservation biology, ephemeral wetlands, comparative and environmental physiology, functional morphology, amphibian ecology and global amphibian population declines. (Weekly public frog talks in the amphibian exhibit area as well as guided tours of our amphibian breeding laboratories to school and college groups, societies, institutions and collaborators. Department of Research and Conservation, ABG)
- 2012 Amphibian Conservation Outreach. Wildlife Rescue Exhibit. **Fernbank Museum of Natural History**, Atlanta, GA
- 2010 Environmental Education in Georgia. Teacher Workshop, Riches of the Rainforest. **ABG**
- 2007 **Teaching Assistant**. Biology Department. Biology 161, Introduction to Biology. **University of Miami**
- 2006 **Teaching Assistant**. Biology Department. Biology 250, Genetics. **University of Miami**, Coral Gables, FL
- 2006 **Co-instructor**. Biology Department. Biology 423, Environmental Physiology. **University of Miami**
- 1998 **Undergraduate Teaching Assistant**. Biology Department. Biology 540, Herpetology, **University of Massachusetts**, Amherst, MA
- 1996 - present Elementary through college level lectures on the topics of: Evolution, Biology, Anatomy, Physiology, Environmental Physiology, Neurobiology, Neuroethology, Herpetology and Conservation; University of Massachusetts (Amherst), Amherst Middle School (Amherst), Smith Campus School (Northampton, MA), Dean Technical School (Holyoke, MA), Granite House (Quincy, MA), University of Connecticut (Storrs, CT), Hitchcock Center (Amherst, MA) University of Miami (Coral Gables, FL) Fernbank Museum of Natural History (Atlanta, GA) University of Georgia (Athens, GA) Georgia Institute of Technology (Atlanta, GA) Kennesaw State University (Kennesaw, GA)
- 1996 - present Co-founded '**Herps for Twerps**' and '**Critter Camp**' a reptile and amphibian awareness program that focuses on introducing elementary through high school students to reptiles and amphibians by bringing live animals and our conservation message to local schools. [facebook.com/herpsfortwerps](https://www.facebook.com/herpsfortwerps) | [critter-camp.org](http://critter-camp.org)

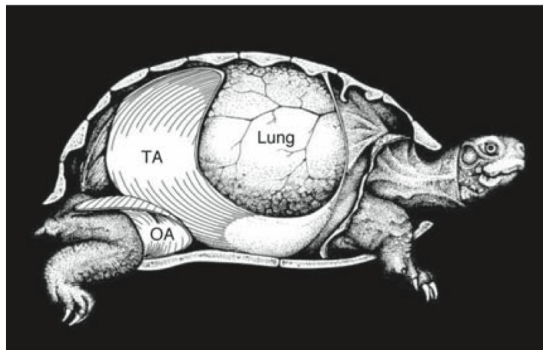


ILLUSTRATION FROM:  
Landberg, T, J Mailhot, and EL Brainerd. 2003.  
**Lung ventilation during treadmill locomotion in a terrestrial turtle *Terrapene carolina***  
Journal of Experimental Biology. 206: 3391-3304

#### INVITED LECTURES

- 2016 **Behind the Scenes of Scientific Illustration** Atlanta Science Festival and Atlanta Science Tavern, Decatur, GA
- 2016 **Identifying Urban Amphibian Species of the Georgia Piedmont** Adopt-a-Stream Confluence Conference, Gwinnett County, GA
- 2015 **Salamander Migrations and Why We Should be Paying Attention to Them** TEDx GA Tech. Atlanta, GA
- 2015 **Amphibians in Our Future** Calhoun Lecture, Atlanta Botanical Garden, Atlanta, GA
- 2015 **Identifying Urban Amphibian Species of the Georgia Piedmont** Adopt-a-Stream Confluence Conference, Gwinnett County, GA; Atlanta Botanical Garden, Atlanta, GA; Chattahoochie Nature Center, Roswell, GA
- 2015 **Amphibians in Our Future** Environmental Physiology, Kennesaw State University, Kennesaw, GA
- 2014 **Identifying Urban Amphibian Species of the Georgia Piedmont** Blue Heron Nature Preserve. Buckhead, GA
- 2014 **Metro Atlanta Amphibian Monitoring Program: Why Monitor Amphibians?** Atlanta Science Tavern, Atlanta
- 2013 **Adaptation and Phenotypic Plasticity in Obligate Ephemeral Wetland Breeding Amphibians.** Ecology, Evolution, Behavior, & Organismal Biology Seminar. Integrative Biology Department. KSU, Kennesaw GA
- 2013 **Adaptation and Phenotypic Plasticity in Obligate Ephemeral Wetland Breeding Amphibians.** Comparative Anatomy. Integrative Biology Department. Kennesaw State University, Kennesaw GA
- 2013 **Biology, Ecology, Conservation and Scientific Illustration of the Eastern Indigo Snake (*Drymarchon couperi*).** Science Café / Atlanta Science Tavern. Atlanta Botanical Garden. Atlanta, GA
- 2013 **Adaptation and Phenotypic Plasticity in Obligate Ephemeral Wetland Breeding Amphibians.** University of Georgia Herpetological Society. University of Georgia. Athens, GA
- 2013 **Adaptation and Phenotypic Plasticity in Obligate Ephemeral Wetland Breeding Amphibians.** Comparative Anatomy. Integrative Biology Department. Kennesaw State University, Kennesaw GA



- 2013 **Amphibians in Our Future.** Peachtree Garden Club. Atlanta, GA
- 2013 **A Comparison of Photoperiod Related Activity Patterns and Non-Visual Photoreception Between Two South Florida Bufonids.** Mercer University. Macon, GA
- 2012 **Obligate Ephemeral Wetland Breeding Amphibians.** St Pius X School. Atlanta, GA
- 2012 **Ecological Modeling in Everglades National Park. A Comparison of Photoperiod Related Activity Patterns and Non-Visual Photoreception Between Two South Florida Bufonids.** University of Georgia Herpetological Society. Athens, GA
- 2011 **Obligate Ephemeral Wetland Breeding Amphibians of New England.** University of Georgia Herpetological Society. Athens, GA
- 2007 **Behavioral and Cellular Reproduction in Amphibians and Reptiles & Aberrant Genetic Strategies.** Biology Department. Biology 250, Genetics, University of Miami, Coral Gables, FL
- 2007 **Better Scientific Illustrations and Visual Aids.** American Society of Ichthyologists and Herpetologists. Tampa, FL
- 2006 **Freeze Tolerance and Cold-Hardiness in Amphibians and Reptiles.** Biology Department. Biology 243, Environmental Physiology, University of Miami, Coral Gables, FL
- 2006 **The Hydrology of the Everglades.** Biology Department. Biology 410, Hydrology, University of Miami, Coral Gables, FL

#### CURATORIAL EXPERIENCE

- 2009 - present Preparation of genetic, alcoholic and skeletal specimens for research and outreach. **Department of Research and Conservation.** Atlanta Botanical Garden. Atlanta, GA
- 2004 - 2008 Collection, preparation, cataloging and shipment of specimens for the **O'Reilly Comparative Physiology and Functional Morphology Laboratory**, University of Miami, Coral Gables, FL
- 2004 - 2005 Member of the Collections Council, Miami Museum of Science, Miami, FL
- 2003 **Curatorial Assistant.** Department of Mammalogy, Division of Vertebrate Zoology, **American Museum of Natural History**, New York, NY
- 1996 - 2002 **Museum Assistant.** Herpetological and Ichthyological Collections, **Massachusetts Museum of Natural History**, University of Massachusetts, Amherst, MA
- 1999 Collection and preparation of specimens for the Ichthyological Collection of the **Massachusetts Museum of Natural History**, Dauphin Island Sea Lab, Dauphin Island, AL

#### ENVIRONMENTAL CONSULTING EXPERIENCE

- 2001 **Spotted turtle (*Clemmys guttata*)** survey of Lily Pond, Vernon, VT. Report submitted to Vermont Fish and Wildlife Department, Waterbury, VT
- 1998 Herpetological survey of Satan's Kingdom Wildlife Management Area, Northfield, MA. Report submitted to Massachusetts Natural Heritage Program, Westboro, MA

#### CREATIVE EXPERIENCE

- 1998 - present **Scientific Illustrator, Mandica Illustration and Design, Inc.** Pen and ink as well as digital renderings for scientific publication. Books, text books, journal and magazine articles | [mandica.com](http://mandica.com)
- 2009 - present **Web Designer** and Internet Marketer, **Atlanta Web Designers.** Specializing in Content Management Systems. Installation, publication, maintenance and training. See [www.atlanta-web-designers.com](http://www.atlanta-web-designers.com).
- 2009 - present **Senior Web Developer**, Analyst, Consultant and Internet Marketer, **tetrapod.** Specializing in Content Management Systems, industry and competitive analyses, content optimization, internet and pay per click advertising, social networking, cross-platform and multi-dimensional web presence management. See [www.tetrapod.org](http://www.tetrapod.org).
- 1986 - present **Sound Engineer, Sound Designer, Producer** and **Musician, tetrapod** and **neotenic studios.** Multi-track digital recording, audio processing, mixing and production. See [www.tetrapod.org](http://www.tetrapod.org) or [neotenic.org](http://neotenic.org)
- 2000 - 2009 **Web Designer, Mandica Illustration and Design, Inc.** Specializing in web design for academia and the sciences. Clients include the American Museum of Natural History (NY), University of Miami (FL), and the Massachusetts Museum of Natural History (Amherst).

#### ANIMAL CARE EXPERIENCE

- 2011 - 2016 **Amphibian Conservation Coordinator**, Department of Research and Conservation, Atl Botanical Garden. Supervisor and primary care giver of rare, threatened and endangered amphibian species from Georgia and the neotropics.
- 2009 - 2010 **Amphibian Specialist**, Department of Research and Conservation, Atlanta Botanical Garden. Care of rare, threatened and endangered amphibian species from Georgia and the neotropics.
- 2004 - 2006 Animal care provider of limbless herpetological research collection for the **O'Reilly Comparative Physiology and Functional Morphology Laboratory**, Biology Department, **University of Miami**, Coral Gables, FL
- 2002 Primary care provider and captive breeding coordinator of the dendrobatid (poison frog) collection of **Black Jungle**, Turner's Falls, MA



- 1996 - 2002 Primary care provider of the living herpetological teaching collection, **Massachusetts Museum of Natural History**, Biology Department, University of Massachusetts, Amherst, MA
- 2000 Primary care provider of the rodent breeding facility of the Biology Department, University of Massachusetts, Amherst, MA
- Strong familiarity with the procedures and protocols of the **International Animal Care and Use Committee (IACUC)**
- Advanced knowledge of the biology, natural history, captive husbandry and breeding of many species of amphibians and reptiles. A strong familiarity with the biology, ecology, ethology and natural history of amphibian and reptile species native to New England, South Florida and Georgia.

Measey, JG. 2004  
*Boulengerula taitanus*  
Cover of the Journal of East African Natural History  
Volume 93



## PUBLICATIONS

### DIGITAL MEDIA

**Author.** The Amphibian Foundation's amphibian conservation blog. Highlighting the efforts of the Amphibian Conservation Program as well as conservation work from around the world | [frogsneedourhelp.org](http://frogsneedourhelp.org) (180 hits/day avg)

**Photographer and Author.** *Frogs Need Our Help* Instagram feed (@frogsneedourhelp) (More than 6,000 followers)

### ARTICLES

Noel, Alexis C, *et al.* 2017. Frogs use a viscoelastic tongue and non-Newtonian saliva to catch prey. *Journal of The Royal Society Interface*, 14.127

Gratwicke, B *et al.* 2015 Evaluating the probability of avoiding disease-related extinctions of Panamanian amphibians through captive breeding programs. *Animal Conservation*

**Mandica, ML.** 2015 Flatwoods Salamander Recovery and Conservation. *Indigo*. Fall 2015

Fenolio, DB, *et al.* 2014. Rearing the Federally Endangered Reticulated Flatwoods Salamander, *Ambystoma bishopi*, from Eggs through Metamorphosis. *Herpetological Review*, 2014, 45(1), 62–65

Meshaka, WE, HT Smith, JW Gibbons, T Jackson, **M Mandica**, and KA Boler. 2008. An Exotic Herpetofaunal Bioblitz Survey at a State Park in Southern Florida. *Journal of Kansas Herpetology*. 26 (June 2008)

**Mandica, ML** and AM Richmond. 2000. *Scaphiopus holbrookii* (Eastern Spadefoot) Geographic Distribution. *Herpetological Review*. 31 (2):110

### PUBLISHED ABSTRACTS

Walls, S, *et al.* 2015. Meeting Data Needs to Inform Recovery, Conservation and Management of Imperiled Flatwoods Salamanders. Society for the Study of Amphibians and Reptiles. Lawrence, KS

**Mandica, ML.** 2015. A New Approach to Flatwoods Salamander Conservation Using Structured Decision Making and Adaptive Management. Southeast Partners in Amphibian and Reptile Conservation. Covington, LA

**Mandica, ML.** 2012. Amphibians in Our Future. International Herpetological Symposium. Baltimore, MD

**Mandica, ML.** 2007. Evidence for an Arrhythmic Activity Pattern in a Florida Bufonid. Society for Integrative and Comparative Biology, Phoenix, AZ

**Mandica, ML.** 2006. Comparison of Photoperiod Related Activity Patterns and *zeitgeber* of Two South Florida Bufonids. Joint Meeting of Ichthyologists and Herpetologists, New Orleans, LA

**Mandica, ML.** 2006. Comparison of Photoperiod Related Activity Patterns of Two South Florida Bufonids (*Anura: Bufonidae*). Society for Integrative and Comparative Biology, Orlando, FL

**Mandica, ML** and GEA Gartner. 2005. A Comparison of Photoperiod Related Activity Patterns of Two South Florida Toads (*Anura: Bufonidae*). American Society of Ichthyologists and Herpetologists. Tampa, FL

Ganser, LR and **ML Mandica**. 2005. Sex differences in the Brain of the Cane Toad, *Bufo marinus*. Society for Integrative and Comparative Biology, San Diego, CA

### SELECT PUBLISHED ILLUSTRATIONS

Fenolio, DB. 2016. **Life in the Dark**. Johns Hopkins University Press.

Lodge, Thomas E. 2010. **The Everglades Handbook**. 3rd Edition. CRC Press. Boca Raton, FL

Cunningham, CB, N Schilling, C Anders and DR Carrier. 2010. The influence of foot posture on the cost of transport in humans. *Journal of Experimental Biology*. 213, 790-797

Schilling, N, T Fischbein, EP Yang and DR Carrier. 2009. Function of the extrinsic hindlimb muscles in trotting dogs. *Journal of Experimental Biology*. 212, 1036-1052

Carrier, DR, SM Deban and T Fischbein. 2007. Locomotor function of forelimb protractor and retractor muscles of dogs:



- evidence of strut-like behavior at the shoulder. *Journal of Experimental Biology*. 211, 150-162
- Huber, DR, CL Weggelaar and PJ Motta. 2006. Scaling of bite force in the blacktip shark *Carcharhinus limbatus*. *Zoology*. 109: 109-119
- Searcy, WA and S Nowicki. 2005. **The Evolution of Animal Communication, Reliability and Deception in Signaling Systems**. Princeton University Press. Princeton, NJ. *Cover illustration and others*
- Simmons, NB. 2005. Chiroptera in **The Rise of Placental Mammals: Origins and Relationships of the Major Extant Clades**. Rose, KD and JD Archibald. The Johns Hopkins University Press. Baltimore, MD
- Huber, DR, TG Eason, RE Hueter and PJ Motta. 2005. Analysis of the bite force and mechanical design of the feeding mechanism of the durophagous horn shark *Heterodontus francisci*. *Journal of experimental Biology*. 208: 3553-3571
- Kelly, D. 2004. The Penis Plan. *Science*. 1 March 2004
- The Journal of East African Natural History. 2004. Vol 93. *Cover illustration*
- Dean, MN and PJ Motta. 2004. Feeding Behavior and Kinematics of the Lesser Electric Ray, *Narcine brasiliensis* (Elasmobranchii: Batoidea). *Zoology*. 107: 171-189
- Fenolio, DB, ME Walvoord, F Andreone, JF Stout, JE Randrianirina. 2004. A new *Platypelis* (Amphibia: Anura: Microhylidae) frog living in treeholes of low-altitude rainforests of the Masoala Peninsula, NE Madagascar. *Proceedings of the Biological Society of Washington*
- Meyers, JJ, JC O'Reilly, KM Monroy and KC Nishikawa. 2004. Mechanism of tongue protrusion in microhylid frogs. *Journal of Experimental Biology*. 207: 27-31
- Landberg, T, J Mailhot, and EL Brainerd. 2003. Lung ventilation during treadmill locomotion in a terrestrial turtle *Terrapene carolina*. *Journal of Experimental Biology*. 206: 3391-3304
- Azizi, M and T Landberg. 2002. Effects of Metamorphosis on the Aquatic Escape Response of the Two-Lined Salamander, *Eurycea bislineata*. *Journal of Experimental Biology*. 205: 841-849
- McCormick, SD. 2001. Endocrine Control of Osmoregulation in Teleost Fish. *American Zoologist*. 41: 781-794
- Druziski, KA and EL Brainerd. 2001. Buccal oscillation and lung ventilation in a semi-aquatic turtle, *Platysternon megacephalum*. *Zoology*. 104: 143-153
- Tentaculata*, a newsletter for caecilian researchers. 4: 1999

#### PRESENTATIONS AND ILLUSTRATIONS AT PROFESSIONAL MEETINGS

- Mandica, ML**. 2015. A New Approach to Flatwoods Salamander Conservation Using Structured Decision Making and Adaptive Management. Southeast Partners in Amphibian and Reptile Conservation, Covington, LA
- Phillips, L, **ML Mandica**, RB Wilson. 2015. An Overview of the Captive Assurance and Breeding Program at the Atlanta Botanical Garden. Amphibian Taxon Advisory Group Meeting, Atlanta, GA
- Mandica, ML**. 2007. Evidence for an Arrhythmic Activity Pattern in a Florida Bufonid. Society for Integrative and Comparative Biology, Phoenix, AZ
- Mandica, ML**. 2006. Comparison of Photoperiod Related Activity Patterns and *zeitgeber* of Two South Florida Bufonids. Joint Meeting of Ichthyologists and Herpetologists, New Orleans, LA
- Mandica, ML**. 2006. Comparison of Photoperiod Related Activity Patterns of Two South Florida Bufonids (Anura: Bufonidae). Society for Integrative and Comparative Biology, Orlando, FL
- Ganser, LR and **ML Mandica**. 2005. Sex differences in the Brain of the Cane Toad, *Bufo marinus*. Society for Integrative and Comparative Biology, San Diego, CA
- Ganser, LR and GE Gartner. 2003. Histological Analysis of the Harderian Gland of the African Egg-Eating snake, *Dasypeltis*. The International Congress of Vertebrate Morphologists (Florida Atlantic University, Boca Raton, FL
- Ganser, LR. 2003. Sex Differences in the Brain of the Cane Toad, *Bufo marinus* and the Effects of Atrazine on Sex Differentiation. EPA Star Conference, Washington, DC
- ML Mandica** and K McGarigal. 2001. Efficiency and Efficacy of Vernal Pond Amphibian Survey Techniques. Presented to the Metropolitan District Commission (Natural Resources Conservation) University of Massachusetts, Amherst, MA
- Brainerd, EL and T Landberg. 2001. Ventilatory Mechanisms of the Elongate Salamander, *Amphiuma tridactylum*. The Society for Integrative and Comparative Biology. Chicago, IL
- O'Reilly, JC, NJ Kley, AM Richmond and EL Brainerd. 2001. Prey Capture Kinematics in *Chelus fimbriatus* (Testudines: Pleurodira). The Society for Integrative and Comparative Biology. Chicago, IL
- Kley, NJ, JC O'Reilly, AM Richmond and EL Brainerd. 1999. Morphological Specializations of the Feeding Apparatus in the Matamata (*Chelus fimbriatus*). The Society for Integrative and Comparative Biology, Division of Vertebrate Morphology, NE Regional Meeting, Providence, RI

#### GRANTS WRITTEN AND FUNDED

- Department of the Interior Critical Ecosystems Science Initiative Project, Computer Simulation Modeling of Intermediate Trophic Levels for Across Trophic Level System Simulations of the Everglades/Big Cypress Region. The grant provided for three years of tuition, stipend and all supplies



## GRANTS AND AWARDS

2017	Waterfall Foundation Grant for building the Amphibian Foundation Research Lab
2016	Turner Foundation Award for Flatwoods Salamander Recovery
2006 - 2007	Teaching Assistantship. Department of Biology. University of Miami. Coral Gables, FL
2004 - 2006	Research Assistantship. Department of the Interior Critical Ecosystems Science Initiative Project, Computer Simulation Modeling of Intermediate Trophic Levels for Across Trophic Level System Simulations of the Everglades/Big Cypress Region
2005 - 2007	Provost's Scholarship. University of Miami, Coral Gables, FL
2005 - 2007	Kriloff Scholarship. University of Miami, Coral Gables, FL
2005 - 2007	Departmental Scholarship. Biology Department. University of Miami, Coral Gables, FL

## MEDIA EXPOSURE

2017	<b>CBS Sunday Morning</b> (to be aired in 2017)
2016	<b>National Geographic</b> Article: Famous Frog Dies, Sending Species to Extinction ( <a href="#">article here</a> )
2016	<b>Ecwatch</b> Article: Amphibian Conservation is Hopping in Atlanta ( <a href="#">article here</a> )
2016	<b>Care2</b> Article: Meet 10 Stunning Frogs Whose Populations are Dwindling ( <a href="#">article here</a> )
2016	<b>Wild Kratts</b> Season 5 Fire Salamander episode
2015	<b>Salamander Migrations and Why We Should be Paying Attention to Them</b> TEDx GA Tech. Atlanta, GA ( <a href="#">video</a> )
2015	<b>Public Affairs on Peachtree TV</b> Metro Atlanta Amphibian Monitoring Program ( <a href="#">video here</a> )
2015	<b>Racing Extinction</b> (feature documentary)
2015	<b>Care2</b> Interview: Last Known Frog of its Species Projected Onto Vatican Church ( <a href="#">article here</a> )
2014	<b>The Huffington Post</b> 'The Loneliest Frog in the World' October ( <a href="#">article here</a> )
2014	<b>The Manchester Museum's</b> Frog Blog, July ( <a href="#">article here</a> )
2014	<b>The Weather Channel's</b> Morning Show, April ( <a href="#">video here</a> )
2014	Amphibian Conservation public awareness video ( <a href="#">video here</a> )
2014	<b>Atlanta Journal Constitution</b> , Atlanta Botanical Garden Saves Frogs, March ( <a href="#">article here</a> )
2013	Atlanta Botanical Garden's <b>Science Café</b> podcast ( <a href="#">interview here</a> )
2013	<i>National Geographic Magazine</i> . July 2013
2013	'Wednesday's Child' <b>Fox News</b> Atlanta. September 2013 ( <a href="#">video here</a> )
2013	<b>PBS</b> . <i>Unlikely Creatures</i> . October 2013 ( <a href="#">video here</a> )
2013	<b>Ellie and Edmond</b> Children's Blog. April 2013 ( <a href="#">article here</a> )

## PROFESSIONAL RESEARCH SOCIETIES and AFFILIATIONS

The Society for Integrative and Comparative Biology  
 The International Congress of Vertebrate Morphology  
 American Society of Ichthyologists and Herpetologists  
 The Society for the Study of Amphibians and Reptiles  
 The Herpetologist's League  
 Tentaculata, Caecilian Research  
 IUCN Viper Specialist Group  
 Partners in Amphibian and Reptile Conservation  
 Southeast Partners in Amphibian and Reptile Conservation  
 Species Survival Commission (IUCN)  
 Conservation Breeding Specialist Group (IUCN)  
 National *Bsal* Task Force  
 The Amphibian Ark

## COMPUTER SKILLS

*Proficient in:*  
 Adobe Creative Suite: **Photoshop, Illustrator, Acrobat, Dreamweaver**, Flash and Fireworks  
**Apple Logic Pro, Cubase** and **ProTools**  
**Google Certified:** Content optimization, AdWords, Google Business, Analytics and Google apps  
**Joomla!**, Content Management Systems, SQL and scores of extensions for Joomla!

*Also:*  
 Microsoft Office: Word, Excel and Powerpoint  
 Various other graphics programs and audio/video editing software.  
 Statistical software such as MATLAB, PRESENCE, PAUP and ImageJ

## For more information, or updates please visit:

**my research** | [Amphibian Foundation](#) | [presentations](#)  
**scientific illustration** | [mandica.com](#)  
**the frog blog** | [blog.frogsneedourhelp.org](#)  
**critter camp** | [critter-camp.org](#)  
**social media** | [twitter](#) | [instagram](#)



*Cruziohyala craspedopus*  
 FRINGED LEAF FROG  
 Painted from animals safe-guarded at the Amphibian Foundation