**CURRICULUM VITAE**

**Randal Singer**

The University of Michigan

Email: randalas@umich.edu; Tel: (352) 209-1024

Office: 1421 Research Museums Center, 3600 Varsity Drive, Ann Arbor, MI 48108-2228

Website: <https://randchovy.wixsite.com/randalsinger>

<https://lsa.umich.edu/ummz/people/curators-staff/randalas.html>

**EDUCATION**

2019 PhD, Interdisciplinary Ecology

The University of Florida/iDigBio, Gainesville, FL

Advisor: Lawrence M. Page

Dissertation: An Interdisciplinary Approach to Increasing the Sustainability of Biodiversity Collections: <https://tinyurl.com/4hfj7b4>

2013 M.S., Zoology

The University of Florida, Gainesville, FL

Advisor: Lawrence M. Page

Thesis: A Revision of the genus Acanthocobitis (Peters 1861) with description of a new genus: Paracanthocobitis (Teleostei: Nemacheilidae)

2008 B.S., Ecology

The University of Georgia, Athens, GA

Senior thesis: Tracing carbon flow in deep-sea whale-fall communities using STELLA.

**PROFESSIONAL APPOINTMENTS/EMPLOYMENT**

2019-Present **The University of Michigan Museum of Zoology – Assistant Research Scientist/Collection Manager, Fish Division (Faculty Appointment)**

Management, curation, and coordination of collection resources and activities

Lead collecting expeditions to build collections

Facilitation of collections based research, grant writing, education and outreach

Aiding research uses of collection through visits and external loans

Graduate student committee member and supervisor

Personal scientific research on fish systematics, biogeography and ecology

(352) 209-1024

2015-2019 **The University of Florida/iDigBio – PhD Candidate**

Conducting informatics research using specimen data

Advocating for collections care and use

Organizing workshops and webinars for iDigBio

Representing iDigBio at conferences and events and Core Team participation

(352) 273-1374

2013-2015 **University of Alabama – Collections Manager, Ichthyology**

Responsible for specimen cataloguing and curation

Oversee all activities of the fish and herpetology collections

Conduct and aid in research both in and outside of the collection

Aiding in public outreach and specimen loans for research

(205) 348-1822

2010-2013 **Florida Museum of Natural History – Asst. Collection Manager, Ichthyology**

Responsible for specimen cataloguing and curation

Completed a M.S. degree in Zoology during 2011-2013

Contributed to research leading to scientific publications

Aiding in public outreach and specimen loans for research

(352) 273-1957, http://www.flmnh.ufl.edu/fish/

2010 **Florida Museum of Natural History – Collections Assistant, Ornithology**

Helped maintain collections

Updated labels and databases to current taxonomy

(352) 273-1968, http://www.flmnh.ufl.edu/

2006-2010 **UGA Odum School of Ecology – Collections/Research Assistant**

UGA Natural History Museum and Mohan Lab

Worked in various labs during and post undergraduate

Built and used equipment to obtain data/curate collections

Lab and field work involving some engineering

Contributed to publications in scientific journals

(706) 542-6365, http://www.uga.edu/mohanlab/

**PUBLICATIONS**

2021Chakrabarty, P., Desai, U., Peck, C., **Singer, R.A**., Allcock, L.,Downey, R., Macknzie, M., Rodriguez, E., Bart, P. Preliminary Checklist of the Undersea Fauna of the Ross Sea Antarctic Continental Shelf. *Miscellaneous Publications Museum of Zoology, University of Michigan*.

<https://tinyurl.com/yk8tbufv>

2020Monfils, A. K., Krimmel, E. R., Bates, J. M., Bauer, J. E., Belitz, M. W., Cahill, B. C.,... **Singer, R.A**.& Zaspel, J. M. (2020). Regional collections are an essential component of biodiversity research infrastructure. *BioScience*, 70(12), 1045-1047**.**

<https://tinyurl.com/umuk543n>

2020 **Singer, R. A**., Moore, J. A., & Stanley, E. L. (2020). RETRACTED ARTICLE: Novel life history strategy in a deep sea fish challenges assumptions about reproduction in extreme environments. *Scientific reports*, 10(1), 1-7.

*Article retracted: eggs misidentified as crab eggs, but rest of data supported.*

<https://www.nature.com/articles/s41598-020-60534-0>

2019 **Singer, R. A**., Ellis, S., & Page, L. M. (2020). Awareness and use of biodiversity collections by fish biologists. *Journal of fish biology*, 96(2), 297-306.

<https://tinyurl.com/22frrhjw>

2018 **Singer, R. A**., Love, K. J., & Page, L. M. (2018). A survey of digitized data from US fish collections in the iDigBio data aggregator. *PloS one*, 13(12), e0207636.

<https://tinyurl.com/5ym59wxw>

2018 **Singer, R.A.**, Love, K., & Page, L. (2018). FishfindR. net: A New Tool for Fish Biodiversity Collections Communication. *Biodiversity Information Science and Standards*.

<https://tinyurl.com/27rf2dd2>

2017 **Singer, R.A.**,L.M. Page, J.M. Pfeiffer.A Revision of the Paracanthocobitis zonalternans (Nemacheilidae) Species Complex, With Descriptions of Three New Species. *Zootaxa*, 4324(1), 85-107. (10.11646/zootaxa.4324.1.5).

<https://tinyurl.com/krpm2a4n>

2017Quattrini, A. M., Demopoulos, A. W., **Singer, R.A**, Roa-Varon, A., & Chaytor, J. D.Demersal fish assemblages on seamounts and other rugged features in the Greater-Lesser Antilles transition zone. *Deep Sea Research Part I: Oceanographic Research Papers*, 123 (2017), 90-104

<https://tinyurl.com/pzfadesc>

2015 **Singer, R.A.**, L.M. Page. A revision of the Zipper Loaches, Acanthocobitis and Paracanthocobitis (Teleostei: Nemacheilidae), with description of five new species. *Copeia* (2015) 103(2).

2014 **Singer, R.A.** Are Dehydrated Specimens a Lost Cause?: A Case-Study to Reclaim Dehydrated Fluid Preserved Specimens. *SPNHC Collection Forum* 28 (2014): 16-22.

2012 **Singer, R.A**., L.M. Page. Redescription of *Schistura myrmekia* (Fowler 1935) (Teleostei: Nemacheilidae). *Zootaxa* 3586 (2012): 347-352.

2012Page, L.M., F.W.H. Beamish, R. Plongsesthee, P. Kangrang, **R.A. Singer**, Z.S. Randall, and Z.P. Martin. *Schistura* (Teleostei: Nemacheilidae) in the Mae Khlong basin in southwestern Thailand with description of a new species. *Zootaxa* 3586 (2012): 319-328.

**GRANTS AND CONTRIBUTIONS**

2020 Co-PI - CHANGES: Collections, Heterogeneous data, and Next Generation Ecological Studies. University of Michigan Institute for Data Science (MIDAS), Propelling Original Data Science (PODS) grant - $90,000

<https://tinyurl.com/5uafa28z>

2017 Digitization TCN: Collaborative Research: oVert: Open Exploration of Vertebrate Diversity in 3D. Graduate student contributor (could not be co-PI due to student status, but was heavily involved in planning and writing process).

2015 Co-PI. - CSBR Ownership Transfer: Saving an ecologically data-rich collection: adding the Geological Survey of Alabama Fish Collection to The University of Alabama Ichthyological Collection - $272,239.00.

**PROFESSIONAL SOCIETY ACTIVITY/PARTICIPATION**

**Workshops/Panels Organized**

2021 Natural History Education Demo Camp – Panelist

<https://www.idigbio.org/content/first-ever-natural-history-education-democamp>

2021 SPNHC Annual Conference Planning and Organization – Virtual

2020 ORGANIZER – Michigan State and Federal Agency Invasive Fishes Workshop – Virtual

2019 ESA Life Discovery Conference Gainesville, FL: Uses for the iDigBio Data Aggregation

Portal in K-12 and Undergraduate Education.

2019 ORGANIZER – Michigan State and Federal Agency Invasive Fishes Workshop –

University of Michigan Museum of Zoology

2017. ORGANIZER – Serri Graslie: How to Design a Great Storytelling Project: Insights from NPR Training ‘

Recording: https://idigbio.adobeconnect.com/\_a1130716096/p9j6teh0fff/?proto=true

2016. ORGANIZER – Emily Graslie: Education and Outreach Webinar Series: The BrainScoop: Insight into Using Videos as Engaging Outreach Tools

Recording: https://idigbio.adobeconnect.com/\_a1130716096/p51jogv0rve/?proto=true

2016. ORGANIZER- iDigBio Workshop to Develop Best Practices Wiki for Fishes and Herps. New Orleans, LA

2016. PRESENTER - iDigBio Education and Outreach Webinar Series - Social Media and Telepresence to Engage the Public

2015. PANELIST - Social Media and Sustainability Conference. Levin School of Law, The University of Florida, Gainesville, FL

2015. BCON Collections Communications Workshop. Field Museum, Chicago, IL

2015 iDigBio Vertebrate Digitization Workshop Ithaca, NY – workshop session

“Innovative Methods for Outreach using Museum Specimens”

2015 PANALIST - UF CAIRES Sustainability and Social Media Conference Gainesville, FL – “Digitizing Nature”

**Oral Presentations**

2021 SPNHC Annual Meeting Virtual – " Ch-ch-ch-ch-CHANGES: Turn and Face

the Strange, Amounts of Ecological Data Hidden in Natural Resource Surveys"

2020 SPNHC Annual Meeting Virtual –"What Does the Perfect Database for

Collections Management Look Like?"

<https://youtu.be/vlrY_c6ZVvo?t=4776>

2019 ESA Life Discovery Conference Gainesville, FL – Keynote: "How Mentorship and

Guidance from Teachers Influenced My Decision to be a Scientist." <https://tinyurl.com/5w6vpwyb>

2018 SPNHC Annual Meeting, Dunedin, NZ – "FishfindR.net: A New Tool for Fish

Biodiversity Collections Communication."

2018 ASIH/JMIH Annual Meeting, Rochester, NY – “Fishy Feud: What the Survey Says About

How Fish Biologists Interact with Biological Collections” <https://www.youtube.com/watch?v=Imun8931Jo4>

2018 Digital Data in Biodiversity Research Conference, Berkeley, CA – “Where do we go from

here? The future of collections use, attribution and communications in a digital age

through the lens of a data aggregator.”

2017 ASIH/JMIH Annual Meeting Austin, TX – “Finding Dories: Variation in Parazen pacificus (Zeiformes: Parazenidae: Parazen) with the discovery of an undocumented reproductive strategy in a deep sea fish”

2017 SPNHC Annual Meeting Denver, CO – “Fantastic Fishes and Where to Find Them: A Dynamic Inventory of United States Fish Collections” (oral presentation)

Recording: <https://vimeo.com/223347095>

2016 ASIH/JMIH Annual Meeting New Orleans, LA – “Jar Wars, The Data Source Awakens: New Ichthyological Frontiers in Specimen-based Research, Outreach and Education”

2016 ASIH/JMIH Annual Meeting New Orleans, LA – “Bridging a Deep Gap: First Records of Wide-spread Bathyal and Abyssal Fish Genera from the Central North Pacific Gyre” (contributor)

2016 SPNHC Annual Meeting Berlin, Germany – “Small Collections Can Make Big Waves in Education and Outreach”

2016 EEEF Annual Meeting Tallahassee, FL – “Using High Definition ROV Video to Explore the Biodiversity of Deep Sea Fish Fauna”

2015 ASIH/JMIH Annual Meeting Reno, NV – “Telepresence as an Underutilized, but Powerful Tool for the Modern Taxonomist”

2015 SPNHC Annual Meeting Gainesville, FL – “Unlocking the Hidden Potential: Using Museum Collections to Engage Children with Autism”

2014 ASIH/JMIH Annual Meeting Chattanooga, TN – Back to the Future – Bringing the UAIC into the Modern Age.

2013 ASIH/JMIH Annual Meeting Albuquerque, NM – Does your Flap Hang Low? Is it Bony or a Row? A Taxonomic Revision of the Genus Acanthocobitis (Teleostei: Nemacheilidae) with the Recognition of a New Genus Paracanthocobitis.

2013 Presentation of research on Acanthocobitis and specimen rehydration at the Florida Museum of Natural History annual retreat.

2013 Asian Freshwater Fishes Conference 2013 at Universiti Brunei Darussalam, Brunei - January 2013- Acanthocobitis botia is not one, but several species.

2012 ASIH/JMIH Annual Meeting Vancouver, British Columbia, Canada - Are Dehydrated Fluid-Preserved Specimens A Lost Cause?: A Case-Study to Reclaimed Dehydrated Fluid-Preserved Specimens. Presentation for SPNHC Collections Symposium.

2012 All Cypriniformes International Conference in Chiang Mai, Thailand – Schistura myrmekia: A Valid Species of Loach from Southeast Thailand.

**Poster Presentations**

2020 Annual Michigan Institute of Data Science (MIDAS) Conference: CHANGES:

Collections, Heterogeneous data, and Next Generation Ecological Studies

2016 ASIH/JMIH Annual Meeting New Orleans, LA – C. Peck, **R. Singer**, C. Mah, B. Philip, P. Chakrabarty. “Examination of the Ross Ice Sea Shelf Fauna”.

2016 ASIH/JMIH Annual Meeting New Orleans, LA – A. Quattrini, A. Roa-Varon,

**R. Singer**, J. Chaytor, A. Demopoulos. “Mesophotic and Deep-Sea Demersal Fish Assemblages on Rugged Hardbottoms of the Greater-Lesser Antilles Transition Zone”.

**RESEARCH EXPERIENCE/SCIENTIFIC EXPEDITIONS**

2019 November. Invasive Fish Round Up: Worked in collaboration with Florida State and

Federal Agencies to collect invasive fish specimens and data from south Florida. Specimens used in workshops for Michigan DNR, research, education and outreach.

2016 April-July. Deepwater Exploration of the Marianas: collect critical baseline information

of unknown and poorly known areas in and around the Marianas Trench Marine National Monument (MTMNM) and the Commonwealth of the Northern Mariana Islands (CNMI). (shore-based).

2015 February-March. Exploring Papahānaumokuākea Marine National Monument:

exploration of deep-water habitats in and around Papahānaumokuākea Marine National

Monument (PMNM) and will include work on seamounts in the Mid-Pacific Mountains while en route to port in Kwajalein (shore-based).

2015 September. NOAA Okeanos Explorer Hohonu Moana: Exploring the Deep Waters off

Hawai’i Expedition to the Pacific, Telepresence Scientist. Using high speed internet and voice communication assisted in identification of fishes at localities and recorded video f or deep sea fish behavior and localities (shore-based).

2015 April. NOAA Okeanos Explorer Oceano Profundo Expedition to the Caribbean,

Telepresence Scientist. Using high speed internet and voice communication assisted in identification of fishes at localities and recorded video for deep sea fish behavior and localities (shore-based).

2014 September-October. NOAA Okeanos Explorer Atlantic Seamounts and Canyons Expedition, Telepresence Scientist. Using high speed internet and voice communication assisted in identification of fishes at localities and recorded video for deep sea fish behavior and localities (shore-based).

2013 January. NSF funded collecting expedition to eastern and northeastern Thailand, Laos and Brunei under the All Cypriniformes Species Inventory. Similar to previous expeditions, hundreds of specimens and tissues were cataloged at the Florida Museum of Natural History.

2012 Winter NSF funded collecting expedition to western and southern peninsular Thailand under the All Cypriniformes Species Inventory. Similar to the 2011 expedition, hundreds of specimens and tissues were cataloged at the Florida Museum of Natural History.

2011 Spring. NSF funded collecting expedition to western Thailand under the All Cypriniformes Species Inventory. Collections were made across western Thailand and hundreds of specimens and tissues were cataloged at the Florida Museum of Natural History.

2009 Summer. NOAA MAR-ECO research cruise to the Mid-Atlantic Ridge under the supervision of Dr. Tracy Sutton of VIMS. On this trip I aided in ship research trawling, sample sorting, organism identification, and research project preparation.

**PROFESSIONAL AFFILIATIONS/SERVICE**

**Society/Field Service**

2011-pres. American Society of Ichthyologists and Herpetologists (ASIH) – Collections Committee, Best Practices Subcommittee Co-Chair, Liaison to SPNHC.

2019-pres. Specify Collection Management System Technical Advisory Board

2020-pres. University of Michigan Museum of Zoology Digital Data Committee, Chair

2015-pres. Biological Collections Network (BCoN) – Co-Chair, Communications Working Group

2014-2016. American Society of Ichthyologists and Herpetologists (ASIH) – Board of Governors Nominee (Class of 2019 and 2018)

2013-pres. The Society for the Preservation of Natural History Collections (SPNHC) –

Best Practices Subcommittee Member and Wiki Contributor, Liaison to ASIH,

IDEA Committee: <https://tinyurl.com/25sef79a>

Wiki: <https://spnhc.biowikifarm.net/wiki/Category:Best_Practices>

2020-2023 The Society for the Preservation of Natural History Collections (SPNHC) – Board

Member – Member at Large

Various. Museum best practices consultation. Assisting various collections around the world with specimen rehydration, collection ethics, and management issues via Skype and email.

**Peer Reviews**

*Collection Forum, Zootaxa*, *Copeia, Southeastern Naturalist* and *Journal of Fish Biology*

*Catalog of Fishes*: Eschmeyer, W. N. (various editions). http://research.calacademy.org/research/ichthyology/catalog/fishcatmain.asp

**MEDIA COVERAGE**

2021 NPR - Scientific Specimens Are Going Online, But Much Remains Hidden In Storage:

<https://tinyurl.com/ajdzbznb>

2019 OnAir with Ryan Seacrest September 2019: <https://tinyurl.com/nd7m4pe8>

2018 Unvarnished on NPR "Trouble in Thailand": <https://tinyurl.com/y4q3gqqx>

2017 The Independent Florida Alligator - “UF Ph.D. student uses ground-breaking technology for deep-sea research”. (http://www.alligator.org/news/article\_b8660e1a-4be3-11e7- 9d79-67fe79552e36.html)

2017 UF News – “A new age for deep sea exploration”. (http://news.ufl.edu/articles/2017/06/a- new-age-for-deep-sea-exploration-.php)

2016 Florida Museum Research News – “iDigBio: Why Digitize (Watch)”. https://www.floridamuseum.ufl.edu/science/idigbio-why-digitize/

2015 Florida Museum Research News – “A New Age for Exploring the uncharted Deep Sea”. (https://www.floridamuseum.ufl.edu/science/a-new-age-for-exploring-the-uncharted- deep-sea/)

2015 NOAA.gov – “The New NOAA Inouye Regional Center Exploration Command Center” (http://oceanexplorer.noaa.gov/okeanos/explorations/ex1504/logs/aug19/aug19.html)

**PROFESSIONAL MEETINGS/WORKSHOPS ATTENDED**

2021 Natural History Education DemoCamp Virutal

2021 iDigbio Digital Data Conference Virtual

2021 SPNHC Annual Meeting Virtual

2020 Bays and Bayous Annual Conference Virtual

2020 SPNHC Annual Meeting Virtual

2019 ESA Life Discovery Conference, Gainesville, FL

2018 SPNHC Annual Meeting, Dunedin, NZ

2018 ASIH/JMIH Annual Meeting, Rochester, NY

2018 Digital Data in Biodiversity Research Conference, Berkeley, CA

2017. ASIH Joint Meeting of Ichthyologists and Herpetologists. Austin, TX

2017. SPNHC Annual Meeting. Denver, CO

2016. ASIH Joint Meeting of Ichthyologists and Herpetologists. New Orleans, LA

2016. SPNHC Annual Meeting. Berlin, Germany

2016. EEEF Annual Meeting. Tallahassee, FL

2016. iDigBio Workshop Challenges of Digitizing Fluid-Preserved Vertebrates. Champaign, IL

2015. ASIH Joint Meeting of Ichthyologists and Herpetologists. Reno, NV

2015 SPNHC Annual Meeting. Gainesville, FL

2015 iDigBio Vertebrate Digitization Workshop. Ithaca, NY

2014. ASIH Joint Meeting of Ichthyologists and Herpetologists. Chattanooga, TN

2014. iDigBio Collections in the 21st Century Workshop. Gainesville, FL

2014. Specify 6.5 Workshop for Collection Managers. Cookeville, TN

2013. Advancing Digitization of Wet Natural History Collections Workshop. Lawrence, Kansas

2013. Biodiversity of Asian Freshwater Fishes Conference. Gadong, Brunei.

2013. ASIH Joint Meeting of Ichthyologists and Herpetologists. Albuquerque, NM

2012. ASIH Joint Meeting of Ichthyologists and Herpetologists. Vancouver, BC

2012. All Cypriniformes International Meeting. Chiang Mai, Thailand.

2011. ASIH Joint Meeting of Ichthyologists and Herpetologists. Minneapolis, MN

**TEACHING/MENTORING**

2019-present. Undergraduate Research Opportunities (UROP) Faculty Mentor to Yin Yi

(Veronica) Ling – Project: Taxonomic and Biogeographical variation in Parazen pacificus.

2019-present. Undergraduate volunteer supervisor/mentor: Micheal Grabda, Seeta Goyal,

Elizabeth Slayton, and Megan Houle

2020-Present PhD Committee - James Andrews (Matt Friedman, Advisor)

2019-Present Graduate Student Collection Assistant Supervisor – Jacqueline Popma (PhD),

Hector Figueroa (PhD)

2018. Co-Instructor - Ichthyology Immersion Course (UF - PCB 4460)

2015-present. Collection tours, summer camp talks, class visits on a frequent basis teaching children and lifelong learners about ichthyology, natural history, collections and evolution.

2014. University of Florida – Broader Impacts in Science – “Extreme Minnows Exhibit: How to be Creative with Broader Impacts” (Guest lecture)

2014. Assisted Dr. Phillip Harris with labs, field trips, lectures, and collection assignments for the Biology of Fishes course at the University of Alabama.

2013-2015. University of Alabama supervised and mentored two undergraduate research students Evans Delchamp, Andrew Dauphin, and Yashika Hamilton.

2012. University of Florida - Vertebrates in Lotic Systems – Collecting Fishes in Southeast Asian Lotic Systems (Guest lecture)

2011- 2013. David Boyd and Karen Aldridge – Collection techniques and fish identification (Mentor)

**OUTREACH**

Ongoing Collection tours (virtual and in person), K-12 classroom visits, natural society lectures, public museum exhibit openings/consultation, departmental seminars and outreach events

2014-Current. YouTube channel dedicated to museum and ichthyology topics. (11,000+ views as of July, 2017): https://www.youtube.com/channel/UCmVORwx9IgUdymBklmWJYLA

2014-Current. Co Moderator of a Facebook group with 1,600 members: “Underwater webcams screenshot sharing” devoted to citizen science. Participants share video clips and screen shots from various livestream ROV projects (e.g. Okeanos and NautilusLive).

https://www.facebook.com/groups/253354671511754/admin\_activities/

2017. Florida Museum 100th Anniversary Exhibit App. Developed content for virtual app tour of exhibit using location services.

2016. “Why Digitize” video for iDigBio. Video content explaining the importance of collections and digitization of museums. (https://vimeo.com/184552432)

2016. Florida State University STEAM Day. Coordinating outreach and education about natural history collections for k-12 students with emphasis on the intersection between Art, Science and Technology. iDigBio.

2015-2017. Telepresence classroom visits to Alabama and Florida high school Biology classes to discuss museum collections and ichthyology.

April 2014. Visit to Northside High School. Lectured 10th grade students about Marine Biology and presented interesting marine fish adaptations.

April 2014. American Christian Academy field trip to the UAIC. Lectured and organized hands-on activities with 2nd grade children about “fish and oceans”.

2013-2015. University of Alabama collaboration with “Arts and Autism” to create activities and programs for exposure therapy and engagement of children with neurodevelopmental disorders.

2013-2015. Numerous field trips with Huntsville, AL with Dr. Michael Sandel and local area middle school students to various springs to explain invasive species, ecology, and natural history.

2013. Contributed to the University of Alabama “Traveling Fish Show” for community activities and programs.

2012-2013. Designed and developed an exhibit titled "Extreme Minnows" housed at the Florida Museum of Natural History, funded by the NSF- All Cypriniformes Species Inventory

2011-2013. Florida Museum Ichthyology collection tours for visiting researchers, students and visitors as Assistant Collection Manager.

2012-2013. Contribution to planning and development of the Florida Museum of Natural History “Extreme Minnows” exhibit.

2012. Florida Museum of natural History – Earth Day – Ichthyology information/education table.

2011. Florida Museum of Natural History – Butterfly Fest – Ichthyology information/education table.

2010. White County High School – Biology/Zoology Classes – Career Profile: Museum Collection Manager and Ichthyologist. (oral presentation)

2009. White County High School – Biology/Zoology Classes – Why am I an Ichthyologist?

**PROFESSIONAL MEMBERSHIPS/AFFILIATIONS**

2015-pres. Biological Collections Network (BCoN)

2010-pres. American Society of Ichthyologists and Herpetologists (ASIH)

2010-pres. The Society for the Preservation of Natural History Collections (SPNHC)

2009-pres. Southeastern Fishes Council (SFC)

**REFERENCES**

**Hernán López-Fernández Robert Robins Gil Nelson** UMMZ Curator, Fishes Collection Manager, Fishes Director, iDigBio

University of Michigan University of Florida iDigBio/Florida Museum hlopezf@umich.edu rhrobins@flmnh.ufl.edu gnelson@floridamuseum.ufl.edu

(734) 764-4816 (352) 273-1957