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CV SUMMARY

George H. Lowery, Jr. Professor and Curator at the LSU Museum of Natural Science and Department of Biological Sciences. Published 95+ peer-reviewed papers (on ichthyology, systematics, evolution, and conservation) and three books. Continuously funded by the NSF since 2009, \$3+ million in grants. TED Fellow since 2016, **TED Senior Fellow** in 2018 (TED Talks with 5+ million total views); **National Geographic Certified Educator**, trained seven PhD (three current) students and seven postdocs. Traveled to 35+ countries mainly for research and collections primarily in Asia and the Neotropics; described 15 new species. Added 100K+ specimens as Curator of Fishes at LSU MNS, 2nd largest on-line accessible DNA collection of fish tissues (10K+), created a permanent public exhibit for the LSU MNS and modernized collection space. Interviewed by BBC, National Geographic, Science, CNN, NPR and other major outlets. **Elected Fellow of AAAS** (American Association for the Advancement of Science) in 2018; **Program Director for the National Science Foundation** (2016-2017); President-Elect (2022) and **President (2023) of the American Society of Ichthyologists and Herpetologists**; **Fulbright Distinguished Chair** (2020-2021), on the **Board of Directors for the National Center for Science Education** and **Faculty Director of the LSU Center for Collaborative Knowledge** (2021-2024).

EDUCATION

- 2006 Doctor of Philosophy in Ecology and Evolutionary Biology, **University of Michigan**, Dissertation: "*Phylogenetic and Biogeographic Analyses of Greater Antillean and Middle American Cichlidae.*"
- 2000 Bachelor of Science in Applied Zoology, **McGill University**, Montréal, Québec.

RECENT RESEARCH AND ADMINISTRATIVE POSITIONS

- 2020 – Present Professor/Curator of Fishes, Louisiana State University, Department of Biological Sciences, Museum of Natural Science, LA. *George H. Lowery, Jr. Professor since 2022*
- 2024 – Present NCSE (National Center for Science Education) Board of Directors
- 2021 – 2024 Director, LSU Center for Collaborative Knowledge
- 2020 – 2021 Fulbright Canada Distinguished Chair in Environmental Science at Carleton University, Ottawa.
- 2020 – Present Research Associate, Canadian Museum of Nature, Ottawa, Canada
- 2016 – Present Research Associate, National Museum of Natural History Smithsonian, Washington, D.C.
- 2012 – Present Research Associate, Division of Vertebrate Zoology, American Museum of Natural History, NY.
- 2016 - 2017 Program Director for National Science Foundation, Systematics and Biodiversity Sciences Cluster in the Division of Environmental Biology, Directorate for Biological Sciences, VA.
- 2014 – 2020 Associate Professor/Curator of Fishes, Louisiana State University, Department of Biological Sciences, Museum of Natural Science, LA.
- 2008 - 2014 Assistant Professor/Curator of Fishes, Louisiana State University, Department of Biological Sciences, Museum of Natural Science, LA.
- 2006 - 2008 Postdoctoral Fellow, American Museum of Natural History, Department of Ichthyology, NY.
- 2000 - 2001 Research Assistant, Wildlife Conservation Society, Bronx Zoo, NY.

MAJOR GRANTS

Over \$3+ million total

- NSF BIO MPS: Rules of Life: FELS: RAISE: A Phylogenomically-Based Bioinspired Robotic Model Approach to Addressing the Evolution of Terrestrial Locomotion, 2019-2024.
- NSF: CSBR: Imminent and Critical Integration and Renovations to Herps and Fishes at the LSU Museum of Natural Science, 2016-2022.
- NSF DEB: Collaborative Research: Not so Fast - Historical biogeography of freshwater fishes in Central America and the Greater Antilles, 2014-2021.
- NSF IOS: Research Opportunity Award, 2018.
- National Academies Keck Futures Initiative: Crude Life: A Citizen Art and Science Investigation of Gulf of Mexico Biodiversity after the Deepwater Horizon Oil Spill, 2016-2018.
- NSF REVSYS: Reconstructing Heroini (Teleostei: Cichlidae) – Of Heroes, Convicts, Angels and Red Devils. 2009-2014.
- Board Of Regents, Traditional Enhancement Grant - Education: Making a Big Splash with Louisiana Fishes: A Three-tiered Education Program and Museum Exhibit, 2010-2012.

NOTABLE AWARDS/CERTIFICATIONS

- Elected President-Elect (2022), and President (2023), American Society of Ichthyologists and Herpetologists
- National Geographic Certified Educator, 2021.
- Fulbright, Distinguished Chair 2020-2021.
- Elected Fellow of the American Association for the Advancement of Science, 2018.
- ‘Forty Under 40’ Greater Baton Rouge Business Report, 2018.
- Rainmaker: Emerging Scholar Award 2013; Mid-Career Scholar Award 2016; Louisiana State University.
- Named a TED Fellows 2016; Senior Fellow at TED 2018.
- Distinguished Young Alumni Award, MacDonald Campus, McGill University, 2012.
- University of Michigan Outstanding Graduate Student Instructor Award, 2005.
- McGill University Macdonald Campus Gold Key Award
- Lieutenant Governor of Quebec Award, 2000.
- Valedictorian Class of 2000, of the Macdonald Campus of McGill University, 2000.

TEACHING EXPERIENCE

Louisiana State University

- First Year Seminar “How to be a Scientist”, College of Science, Fall 2018, 2019, 2021, 2023
- Evolution, Fall 2011, 2014, 2018, 2022
- Evolution in the Galapagos, (Study Abroad) Summer 2022, 2023
- Ichthyology, Fall 2009-2010, 2013, 2015, 2017, 2019, 2021, 2023
- Introductory Biology Lab - Instructor of Record, Course Based Undergraduate Research (CURE), Fall 2018
- Unexplored Places Seminar Spring, Fall 2022)
- Academia & Beyond Graduate Seminar Spring, 2022
- Systematics Discussion Group, Fall 2009-2015, 2017
- Curatorial Methods, Fall 2010, 2015, 2023

International Short Courses

- Taxonomy and Identification of Fishes from the Arabian Gulf, Kuwait Institute of Scientific Research, 2015
- Co-Mentored with Steve Cooke and Dalal Hanna – Advance in Applied Ecology (BIOL 5512) Ottawa-Carleton Institute of Biology, Fall 2020

ADVISING

Collections Manager:

- David Boyd (2021 – present), Museum of Natural Science, Louisiana State University.
- Seth Parker (2015 – 2020), Museum of Natural Science, Louisiana State University.

Postdoctoral Researchers:

- Dr. Rafet Ozturk (2022 – 2023), Louisiana State University (Karadeniz Technical University, Türkiye).
- Dr. Yahya Terzi (2022 – 2023), Louisiana State University (Karadeniz Technical University, Türkiye).
- Dr. Fernando Alda (2015 – 2018), Louisiana State University, currently at University of Tennessee, Chattanooga.

- Dr. Brandon Ballengée (2015 – 2018), Louisiana State University.
- Dr. Laurie Sorenson (2014), Louisiana State University.
- Dr. Wilfredo Matamoros (2010 – 2012), currently at Universidad de Ciencias y Artes de Chiapas, Mexico.
- Dr. Matthew P. Davis (2010 – 2011), currently at St. Cloud University.

Doctoral Students Supervised:

- Daniel Geldof (in progress), Doctoral Program in Biology Louisiana State University.
- Daniel Sinopoli (in progress), Doctoral Program in Biology Louisiana State University.
- Sheila Rodriguez Machado (in progress), Doctoral Program in Biology Louisiana State University.
- Diego Elias (2022), Doctoral Program in Biology Louisiana State University. *Evolution of freshwater fishes in the Northern Neotropics*. Now a postdoc at the Field Museum Chicago.
- Pam Hart (2021), Doctoral Program in Biology. Louisiana State University. *Evolution of Extreme Habitat Specialists in the Dark: Cavefishes and Anglerfishes*. Now Assistant Professor, University of Alabama.
- A.J. Turner Ph.D. (left program 2020), Doctoral Program in Biology. Louisiana State University. Now at Rapid Genomics
- William Ludt (2018), *Determining the Drivers of Anti-Tropical Distributions Across the Fish Tree of Life*. Louisiana State University. Now Assistant Curator at the Natural History Museum of Los Angeles.
- Caleb McMahan Ph.D (2015), *Phylogenetic Analysis and Historical Biogeography of Central American Cichlids*. Louisiana State University. Now Head of Zoology and Collections Manager at the Field Museum, Chicago.

Masters Students Supervised:

- Valerie Derouen MSc. (2015) *Bridging Research and Education: A Look into the Evolutionary History of Batfishes and How Museum Exhibits Can be Used to Engage the Public*. Louisiana State University.

Graduate Committee Membership:

- Yinjuan Wang (2023), Doctoral Program in Animal Sciences, LSU
- Keyla Pruett (in progress), Doctoral Program in Biological Sciences, LSU
- Olivia Hawkins Ph.D. (left program after candidacy), Doctoral Program in Biology, University of Louisiana, Lafayette.
- Cerise Chen Ph.D (in progress), Doctoral Program, California Academy of Sciences.
- Carolyn Swize MSc. (in progress), Master's Program in Oceanography, Louisiana State University.
- Yi-Kai Tea Ph.D (2022), External PhD Examiner, The University of Sydney.
- Maxwell Bernt Ph.D (2019), Doctoral Program in Biology, University of Louisiana, Lafayette.
- Randy Singer Ph.D (2019), Doctoral Program in Biology, University of Florida.
- Kory Jackson Ph.D (2017), Doctoral Program in Biology, University of Louisiana, Lafayette.
- Hannah Rocket Ph.D (in progress), Doctoral Program in Oceanography, Louisiana State University.
- Mark Swanson Ph.D (in progress), Doctoral Program in Biology, Louisiana State University.
- Cody Steely Ph.D (2018), Doctoral Program in Biology, Louisiana State University.
- Arghya Das Ph.D (2018), Doctoral Program in Computer Science, Louisiana State University.
- Dahiana Arcila Ph.D (2017), Doctoral Program in Biology, George Washington University.
- Christopher Reid. Ph.D (2017), Doctoral Program in Biology, Louisiana State University.
- Tim Jones Ph.D (2014), Doctoral Program in Biology, Louisiana State University.
- Lucy Hochstein MSc. (2014), Anthropology, Louisiana State University.
- Will Schreiter Ph.D (2013), Doctoral Program in Chemistry, Louisiana State University.
- Jairo Arroyave Ph.D (2013), Doctoral Program in Biology, American Museum of Natural History.
- Scott Reed Ph.D. (2010), Doctoral Program in Veterinary Medicine, Louisiana State University.
- Alfy Morales MSc. (2010), Biology, University of Louisiana, Lafayette.

Undergraduate Honors Thesis Students Supervised:

- Ali Chauvin (2022), “Examining the symbioses between bioluminescent *Vibrio* species and ponyfishes in the Indian Ocean and between *Vibrio* species and *Crassostrea virginica* in the Gulf of Mexico”.
- Keyla Pruett (2021), Mitochondrial DNA genetic variation and structure in smalltooth sawfish (*Pristis pectinata*) Louisiana State University. [Sabrina Taylor, advisor]
- Breonna Arvie (2020), “*Is Sexual Selection Driving Fish Diversification in the Oceans?*” Louisiana State University.
- Glynn O’Neill (2016), “*One Fish? Two Fish? Three Fish? How Many Species Compose the Longear Sunfish (Centrarchidae: Lepomis megalotis)?*” Louisiana State University.
- Christopher Peck (2016), “*A Checklist of the organisms living under the Ross Ice Sea Shelf.*” Louisiana State University.
- Oliver Sinquefeld (2014), “*A Study of Biliverdin, Serum Albumin and Hemoglobin in the Scincid Lizard Prasinohaema.*” Louisiana State University. [Chris Austin, advisor]

- Brennan Howell (2015), “*Bioluminescent Fishes in Shallow Water.*” Louisiana State University.
- Jacque Prejean (2012), “*The Description of a New Species of Cavefish from Indiana.*” Louisiana State University.
- Gerald Soderstrum (2012), “*Molecular Systematics of Middle American Fishes.*” Louisiana State University.

Current and Past Undergraduate Students (underline means published) – Alexis Larkin (2024-current), Catherine “Cate” Arms (2023- current), Margaret “Maggie” Bagot (2023-current), Christian Mack (2023- current), Xavier Clute (2023-2024), Madeleine “Maddie” Hamlin (2022-current), Aaryana Jones (2022); Alexandra Chauvin (2021-2022); Alec Sheehy (2021-current); Jonathan Simak (2021-current); Daniela Azevedo (2020-2022); Ujali Desai (2019); Madison Keegan (2019-2020); Robert Sanders (2018-2020); Michele Byrnes (2019-2020); Layne Freeman (2017-2020); Breonna Arvie (2019-2020); Kaya Foster (2019-2020); Valencia Henderson (2019-2020); Erica Kenworthy (2019-2020); Connor Thornton (2019-2020); Madison McInnis (2019-2020); Link Morgan (2016-2019); Emily Nall (2017- 2020); Genta Teruyama (2017- 2020); Alexandria Adams, (2017); Glynn O'Neill (2013-2018); Brandon Hardy (2018); Chris Peck (2015-2016); Link Morgan (2016-2020); Bailey Hutchison, (2017- 2020); Brennan Howell (2015); Marcy Cage (2015); Melanie Warren (2013-2014); Parker House (2012-2014); Gerald Soderstrum (2011-2012); Natalie Derouen (2011-2012); Justin Kutz (2009-2012); Jacques Prejean (2009-2011).

Undergraduate Awards:

Link Morgan – 2019 Undergraduate Employee of the Year, Louisiana State University. (Given to one student LSU-wide); also Distinguish Communicator Medalist 2019

CURATORIAL EXPERIENCE

2008-Present Added more 100K specimens to the LSU fish collection from fieldwork and gifts. The DNA tissue collection contains samples representing more than 2000 species and is the second largest in the country (10K samples). This has made the LSU collections one of the most important collections of fishes from the Neotropics. The database (as LSUMZ) is searchable through FishNet2.NET, iDigBio, VertNET, GBIF and is databased and saved in Specify 7. Requests for information and an average of 50 loans of lots are made a year. We also host many researchers, administrators and students including K-12 students visiting the collections.

2017-2022 Major collection renovations including moving specimens into compactor shelving and tanks racks in Foster Hall.

2008-2012 Collection renovations including installation of air-conditioning and humidity control among other changes.

2008 Scientific Assistant, Department of Ichthyology, American Museum of Natural History.

2007-2008 Lab Manager, Ichthyology Molecular Lab at the American Museum of Natural History.

2004-2005 Curatorial Assistant, Fish Division, University of Michigan Museum of Zoology.

INTERNATIONAL FIELD/COLLECTING TRIPS

2024 **Equatorial Guinea** collected fishes as part of a rapid assessment program with Conservation International on the West Central African island of Bioko.

2023 **New Zealand** North island around Auckland, included fish markets and rotenone stations (divers and snorklers) targeting triple-fin blennies, galaxiids, latrids and other endemics.

2023 **Galapagos** Visited five islands (San Cristobal, Santa Cruz, Isla Isabella, Floreana, Baltra). Collected with Galapagos Science Center researchers on behalf of the Charles Darwin Research Station.

2022 **Galapagos.** Survey work with LSU Study Abroad Evolution and Research Credit students, across eight islands. Includes snorkel surveys of fishes and mist-netting Galapagos finches.

2020-1 **Canada.** Collecting with hoop nets on the Ottawa and St. Lawrence rivers (Ottawa and Quebec) with local fishers including ice fishing and other collecting trips for minnows, pike, lake sturgeon and other fishes.

2020 **Thailand.** Collected in caves and freshwater streams targeting “walking fishes” including Balitorid loaches.

2019 **Haiti.** Sampling freshwaters along southern part of island including Lake Miragoane, first collections here in more than 50 years.

2018 **Peru.** Sampling around the Boiling River and other localities along the Peruvian Amazon.

2017 **Tahiti.** Sampled marine and invasive species in French Polynesia, including snapper, surgeonfish, parrotfishes and others most from markets.

2017 **Tanzania.** Sampling mangrove and marine species from the coast of Tanzania. Collected over 400 samples.

2016 **Panama.** Sampling in the Darién National Park in the Darién Gap to collect freshwater fishes. Collected nearly 50 species of cichlids, catfishes, characins and knifefishes.

2015 **Brazil.** Sampling on the Tapajós and Amazon rivers. Collected tissues from 65 different species including many electric knifefishes, catfishes and characins.

2015 **Middle East.** Sampling in Kuwait and Abu Dhabi, Dubai from Persian (Arabian) Gulf. Sampled from 120 different species, 250 tissue samples, over 500 specimens.

- 2014 **Kuwait.** Sampling with Kuwait Institute for Scientific Research colleagues marine and brackish fishes from the Arabian Gulf (Persian Gulf). Sampled from 80 different species, 300 tissue samples, over 500 specimens.
- 2013 **Japan.** Fish market survey and sampling from Tsukiji, the world's largest fish market. Sampled 30 different species.
- 2013 **Guatemala.** Sampling freshwater fishes throughout Peten and other localities. Sampled 59 species, 590 tissue samples and roughly 2000 specimens.
- 2012 **Singapore.** Sampling marine fishes throughout the country, focusing on Pulau Ubin island reserve. Collected over 250 different species and over 1500 specimens.
- 2012 **Honduras.** Sampling freshwater fishes throughout the country and in caves. Collections include over 150 tissue samples representing nearly 30 different species and about 1000 specimens.
- 2011 **Costa Rica.** Sampling freshwater and brackish water fishes throughout the country. Collected over 500 tissue samples representing 120 different species and 4000 specimens.
- 2010 **Vietnam.** Fish market survey and from Nha Trang, Mui Ne, and Ho Chi Minh City (Saigon) and on the Mekong river. Collected tissue samples representing nearly 350 different marine and brackish water species.
- 2009 **Australia.** Sampled from caves, sinkholes to collected endemic blind gobies. Also sampled fisheries trawling materials of leiognathids at the Western Australia Museum.
- 2008 **Taiwan.** Fish market survey in Taipei, Wuchi, Chiayi, Dongshih, Heng-chun, Tongkang and Tashi. Sampled 260 marine species totaling over 1000 specimens.
- 2008 **Madagascar.** Targeted the blind cavefishes in Ankarana and the Mahafaly Plateau.
- 2007 **Indonesia.** Collected from 28 sites on the island archipelago, including Java, Papua, Sulawesi, and Bali.
- 2007 **Sri Lanka.** Collected from over 20 sites on the western and southern Coasts of Sri Lanka.
- 2007 **Taiwan.** Collected from several deep-sea ports and markets.
- 2007 **Malay Peninsula.** Collected from more than a dozen localities including Phuket Island on the Andaman Sea, Chonburi, and Bangkok, (Thailand); Melaka, and Muar (Malaysia), as well as various parts of Singapore.
- 2006 **Taiwan.** 20 sites including on a trawler, from bycatch stands, and at markets
- 2005 **Yucatan Peninsula.** Collected freshwater and brackish water fish from Mexico and Belize.
- 2004 **Dominican Republic.** Collected freshwater and marine species from 10 localities

CURRENT PROFESSIONAL SOCIETY MEMBERSHIP

- American Association for the Advancement of Science (Elected Fellow)
- American Society of Ichthyologists and Herpetologists (Life Member)
- The Society for the Study of Evolution (Life Member)
- Society of Systematic Biologists (Life Member)
- Sigma Xi (Elected Member)
- National Association of Science Writers

RECENT UNIVERSITY SERVICE @ Louisiana State University

- Chair - Research, Economic Development, and Intellectual Property AI Working Group (for Provost Haggerty) 2023
- ADVANCE Institutional Transformation grant proposal working group (led by College of Science Dean Cynthia Peterson) – subgroup Committee on Critical Conversations led by Zakiya Wilson Kennedy
- Co-Chair (w/Morgan Kelly), DEI Cluster Hire, LSU Biological Sciences (3 positions) 2022-2023
- Executive Vice President and Provost LSU search committee 2022
- LSU Flagship Strategic Plan - Flagship Integration Committee 2022
- Promotion & Tenure Committee, Co-Chair (2021-2022), College of Science, Chair Biological Sciences 2021-2023
- Faculty Director, LSU Center for Collaborative Knowledge 2021-2024
- COVID-19 Assistance Committee 2020
- Hiring Committee for an Outreach Coordinator, LSU Museum of Natural Science 2020
- University Council on Gender Equity, 2019-2020
- Faculty Policy Committee for LSU School of Collaborative Academic Programs, 2019-2020
- Search Committee and Diversity Advocate, for a tenure-track Neurobiologist at Dept. of Biological Sciences, 2019-2020
- Faculty Senate, 2018-2020 (Member at Large of Executive Committee 2019-2020)
- Search Committee and Diversity Advocate, for a tenure-track Ecologist at Dept. of Biological Sciences, 2017-2018
- Advisory Board for the Communications Across the Curriculum, 2018 - Current
- Co-Chair College of Science Undergraduate Task Force for Recruitment and Retention of Majors, 2017 - 2019
- Advisory Board for the Center for Collaborative Knowledge, 2017 - Current

EDITING AND SOCIETAL SERVICES

- 2021 – 2023 *Bulletin of the Society of Systematic Biologists*

- 2022 *Society for the Study of Evolution* Advocacy Group for the American Institute of Biological Sciences Virtual Advocacy Event – spoke with the offices of Senators Bill Cassidy, John Kennedy, Rick Scott, Marco Rubio, John Cornyn, and Congressman Gary Graves and William Steube
- 2016 – 2020 Secretary of the American Society of Ichthyologist and Herpetologist.
- 2014 – Present Editor, *Occasional Papers of the Museum of Natural Science*, LSU.
- 2009 – Present Board of Governors of the American Society of Ichthyologists.
- 2009 – 2016 Associate Editor for Book Reviews, and Editorial Board *Copeia*.
- 2010 – 2015 Assistant Editor, *Journal of Fish Biology*.

External Reviewer for:

Journals: *American Naturalist* (2x), *Aquaculture*, *Axios*, *Biodiversitas Journal of Biological Diversity*, *Biological Reviews*, *BioScience*, *Bulletin of the Peabody Museum of Natural History*, *Bulletin of the Society of Systematic Biology*, *BMC Evolutionary Biology* (3x), *Check List* (3X), *Chromosome Research*, *Cladistics* (2x), *Conservation Biology* (2x), *Copeia* (15X), *Environmental Biology of Fishes* (2X), *European Journal of Taxonomy*, *Freshwater Biology*, *Frontiers in Marine Science*, *European Journal of Taxonomy*, *Evolution*, *Heredity*, *Hydrobiologia* (3x), *Ichthyological Explorations of Freshwaters*, *Ichthyological Research*, *Integrative and Comparative Biology*, *Journal of Animal Ecology*, *Journal of Applied Ichthyology*, *Journal of the Arkansas Academy of Science*, *Journal of Biogeography* (6X), *Journal of Evolutionary Biology*, *Journal of Fish Biology* (5x), *Journal of Ichthyology*, *Journal of the Marine Biological Association of the United Kingdom* (3X), *Journal of Morphology* (3x), *Journal of Natural History*, *Journal of Vertebrate Paleontology* (4x), *Journal of Zoological Systematics and Evolutionary Research* (2x), *Life, Methods in Ecology and Evolution*, *Mitochondrial DNA Part B: Resources*, *Molecular Ecology* (2x), *Molecular Ecology Resources*, *Molecular Phylogenetics and Evolution* (5x), *Open Marine Biology Journal Organisms Diversity and Evolution*, *Philippine Journal of Science*, *PeerJ*, *PLoS One* (6X), *Proceedings of the Royal Society B*, (2x), *Revista de Biología Marina and Oceanografía*, *Scientific Reports* (3x), *Scientific Data*, *Southeastern Naturalist*, *Systematics and Biodiversity*, *Systematic Biology* (8x), *Wildlife and Biodiversity*, *Vertebrate Zoology*, *Zoological*, *Journal of the Linnean Society* (6x), *Zoology and Ecology*, *Zookeys*, *Zoologica Scripta* (2x), *Zoological Studies* (2x), *Zootaxa* (12x)

Granting Agencies: *US National Science Foundation*, *Swiss National Science Foundation Division Biology and Medicine*; *Alongside Wildlife Foundation*; *Conservation Leadership Programme*

SELECT RECENT OUTREACH/ SYNERGISTIC ACTIVITIES

- 2024 Arnold and Mabel Beckman Foundation Scholars Program Advisory Panel and Proposal Reviewer (2 rounds)
- NSF Grant Review Panelist 2021 & 2022
- National Science Teaching Association Panel “Responsible Use of Live Animals and Dissection in the Science Classroom” 2019-2021
- Grant Reviewer for ‘Alongside Wildlife Foundation,’ 2019
- Panelist “Intersection Points” – Interagency Working Group on Biological Data Sharing, Rockville, MD 2019
- ‘Supper With A Scientist’ Host – Museum Tour and Dinner with local citizens interested in science, 2018
- Host for Crude Life Exhibit, A Traveling Exhibit about the impacts of the 2010 Gulf of Mexico Oil at LSU, 2018
- NSF Grant Review Panelist and Ad Hoc External Reviewer, 2018, 2019
- Consultant – IUCN RedList of Threatened Species, 2018
- Reviewer for Graduate Student Research Awards, Society of Systematic Biology 2017, 2018

ACADEMIC / EDUCATIONAL WEBSITES

- Professional Website: <https://www.prosanta.org/>
- Ichthyology Blog: <https://lsuichthyology.blogspot.com/>
- Guide to Academia Blog: <http://aguidetoacademia.blogspot.com>
- Twitter: @PREAUX_FISH <https://twitter.com/>

NOTABLE PRESS FEATURES

Washington Post	The New York Times	BBC Radio
Forbes	Science	NAT GEO
NewsWeek	The Guardian	Yahoo News
National Geographic	Eureka Alerts	Wall Street Journal
Discover	LiveScience	Fox
Gawkers	BBC News	Nature
Vice	Bloomberg News	ESPN-U

McGill Alumni Magazine
Smithsonian.com
Mashable
The Atlantic

The Daily Reveille
Science Newslne
Science Daily
Reuters

'Brief But Spectacular' PBS
Science Friday (2x)

PROFESSIONAL PRESENTATIONS

(last 5 years, not including student or collaborator presentations)

Plenaries/Keynotes/Colloquia:

- Evolution Studies Initiative at Vanderbilt University (Invited, Inagural Retreat). October 18-20, 2023.
- American Fisheries Society, Pennsylvania Chapter, February 11, 2021 (Plenary)
- College of William & Mary, IGNITE, Future Faculty Development Program, November 8, 2021 (Plenary)
- Darwin Day Speaker, Southern Illinois University Edwardsville, February 14, 2022 (Colloquium)
- 10th Anniversary Darwin Day Keynote, University of Southern Mississippi, February 11, 2023 (Keynote)

Other Notable Invited Talks (since 2018):

- *Look Who's Walking Too: Genomics and kinematics of balitorid loaches can inform our understanding of the vertebrate transition to land.* 11th IndoPacific Fish Conference, Auckland, New Zealand, November 22, 2023
- *Explaining Life Through Evolution* TIES: Teacher Institute for Evolutionary Science October 5, 2023 (online)
- *Why Evolution Matters.* Evolution Studies Initiative Vanderbilt University (Oct 18-20, 2023)
- *Natural History in the 21st Century. Skype a Scientist.* Monte Bella Elementary School, Salinas, California May 5, 2022
- *MC and organizer for Interdisciplinary Showcase,* Center for Collaborative Knowledge (10 speakers)
- *I was told there would be no math: One biologist's journey into coding* August 3, 2022. Science Coding Emersion Program, San Francisco St. University (Virtual, Invited)
- *On being and becoming a natural history curator.* March 22, 2022. McGill University's Green Career's Week. (Virtual, Invited)
- *What is evidence? A conversation across the sciences and humanities* (Center for Collaborative Knowledge Virtual Seminar Series), February 21, 2022
- Darwin Day Panel, LSU Alexandria (Virtual Invited), Feb 12, 2022
- *Vouchers and Genomic Research: The Overlooked Science of Linking the Living and the Dead.* Linking and Leveraging Biological Collections: Zoos and Natural History Museum iDigBio Workshop. (Invited Virtual) May 5, 2021
- *Evolution in the Age of COVID:* (Invited Virtual) UC Berkeley, December 2, 2020
- *Hopes for Reciprocal Illumination: An Old-school Evolutionary Biologist Comes to Carleton.* September 17, 2020
- *SciFun Ad Hoc Hypotheses:* SciFoo October 24, 2020 (Virtual)
- *How I #SciComm.* Institute of Environmental and Interdisciplinary Science, Carleton, November 16, 2020 (Virtual)
- *A Crisis in Genomics: Lack of vouchers will preclude repeatability and hinder future taxonomic identification.* Biodiversity Genomics, October 5, 2020 conference. Vertebrate Genome Project/ Genome 10K. (Virtual)
- *On Trees.* Skype a Scientist. Bronx High School of Science October 2, 2020.
- *Perspectives on Fish Taxonomy.* Department of Zoology, Bajkul Milani Mahavidyalaya, India. September 20, 2020
- *Why study natural history?* March 13, 2020. Lee High School, Speaking of Science Series.
- *Riding the Genomic Tsunami: Or What The Genome Can't Tell Us.* January 10, 2020. Clemson University, South Carolina.
- *Loss and the Future of Nature.* Acadiana Center for the Arts, September 21, 2019.
- *Identifying Fishes of Southern Haiti.* Universite Providence d'Haiti. July 8, 2019.
- *Natural History in the Age of Genomics,* Stowers Institute. March 13, 2019.
- *Evolution in the Age of Genomics,* Texas A&M. January 28, 2019.
- *Natural History in the Age of Genomics,* Field Museum, Chicago. December 14, 2018.
- *Four Billion Years of Evolution in Six Minutes.* TED Conference, Vancouver, B.C. April 12, 2018. (3 + Million Views)
- *A Path to Research.* Tri Beta, undergraduate Biological Honors Society LSU. March 22, 2018.
- *The Big Ocean Myth. Ocean Luminaries.* American Museum of Natural History, March 2, 2018.
- *The Future of Systematics.* University of Central Florida, Orlando, February 26, 2018. [Grad. Student Invited Speaker]

NOTABLE INVITED PRESENTATION VENUES

TED Conference (Vancouver)
National Science Foundation
American Museum of Natural History

Field Museum of Natural History
Smithsonian National Museum of Natural History
Smithsonian National Zoo

Kuwait Institute for Scientific Research
Case Western University
University of Central Florida
McGill University
University of Michigan
Virginia Institute of Marine Science
Universidad Nacional Autonoma de Honduras
Old Dominion University
University of Southern Mississippi
Stowers Institute for Medical Research
Universite Providence d'Haiti
Acadiana Center for the Arts
Texas A&M
Clemson, South Carolina
UC Berkeley (Virtual)
SciFoo (Google; Virtual)
University of Winnipeg

Rutgers/New Jersey Institute of Technology
Sam Houston State
Society of Systematic Biology Standalone Meeting
Willi Hennig Society (Argentina)
Virginia Institute of Marine Science
University of Florida, McGuire Center
University of Alabama (ALLELE)
National Sun Yat-sen University, Taiwan
Keck Center, National Academy of Sciences
Canadian Museum of Nature
San Francisco State University
Carleton University
American Fisheries Society, Pennsylvania (Plenary)
Virginia Institute of Marine Science (Plenary)
Univ. of Southern Mississippi (Darwin Day Keynote)
Vanderbilt University (Evolution Studies Initiative)

PUBLICATIONS

Books:

- Chakrabarty, P., Warny, S., Stampely, V., Egéa, D. (2023). *Se jeter à l'eau avec les poissons de la Louisiane*. Special Publication of the Occasional Papers of the Museum of Natural Science. ISBN: 979-8-3507-1285-8 [French translation and update of 2014 book] <https://lsu.edu/mns/files/fishbookfrench.pdf>
- Chakrabarty, P. (August 2023) *Explaining Life Through Evolution*. MIT Press. ISBN: 9780262546256 (2022 Version published with Penguin Random House India)
- Methods in Fish Biology*, 2nd Edition. (2022) Editors: Stephen R. Midway, Caleb T. Hasler, Prosanta Chakrabarty. American Fisheries Society. ISBN:978-1-934874-61-5
- Chakrabarty, P., Warny, S., Derouen, V. (2014) *Making a Big Splash with Louisiana Fishes*. Special Publication of the Occasional Papers of the Museum of Natural Science. ISBN: 978-1-4951-2077-0 (**Free K-12 book**)
- Chakrabarty, P. (2012) *A Guide to Academia: Getting into and Surviving Grad School, Postdocs and a Research Job*. Wiley-Blackwell, Oxford. ISBN:978-0470960417

Peer-Reviewed Journal Articles:

- (98) Chakrabarty, P., Sheehy, A.J., Clute, X., Cruz, S., Ballengée, B. 2024. Ten Years Later: An Update on the Status of Collections of Endemic Gulf of Mexico Fishes Put at Risk by the 2010 Oil Spill. *Biodiversity Data Journal* 12: e113399 doi: 10.3897/BDJ.12.e113399
- (97) Rodríguez-Machado, S., Elías, D.J., McMahan, C.D., Gruszkiewicz-Tolli, A., Piller, K.R., **Chakrabarty, P.**, 2023. Disentangling Historical Relationships Within Poeciliidae (Teleostei: Cyprinodontiformes) Using Ultraconserved Elements. *Molecular Phylogenetics and Evolution*, p.107965.
- (96) Nachman, M.W., Beckman, E.J., Bowie, R.C., Cicero, C., Conroy, C.J., Dudley, R., Hayes, T.B., Koo, M.S., Lacey, E.A., Martin, C.H., McGuire, J.A, **Chakrabarty, P.** et al. 2023. Specimen collection is essential for modern science. *PloS Biology*, 21(11), p.e3002318.
- (95) Hart, P.B., Niemiller, M.L., Armbruster, J.W., **Chakrabarty, P.** (2023) Conservation implications for the world's most widely distributed cavefish species complex based on population genomics (*Typhlichthys*, Percopsiformes). *Conservation Genetics*. <https://doi.org/10.1007/s10592-023-01562-x>
- (94) Ford, K. Albert, J.S., Summers, A.P., Hedrick, B.P., Schachner, E.R., Jones, A.S., Evans, K., **Chakrabarty, P.** 2023. Scanning methods permit rigorous anatomical investigations not possible with traditional morphological approaches. *Integrative Organismal Biology* Volume 5, Issue 1, 2023, obad008.
- (93) Ludt, W.B., Corbett, E.C., Kattawar III, J., Faircloth, B., **Chakrabarty, P.**, Faircloth, B. 2023. Genome Report: A reference genome for Bluegill (Centrarchidae: *Lepomis macrochirus*). *Genes, Genomes, Genetics: Genome Report* format. (13) 3: jkad019.

- (92) Elías, D.J., McMahan, C.D., Alda, F., García-Alzate, C., Hart, P.B., **Chakrabarty, P.** 2023. Phylogenomics of *trans*-Andean tetras of the genus *Hyphessobrycon* Durbin 1908 (Stethaprioninae:Characidae) and colonization patterns of Middle America. *PLoS One* 18(1): e0279924.
- (91) Ghezelayagh, A., Harrington, R.C., Burress, E.D., Campbell, M.A., Buckner, J., **Chakrabarty, P.**, Glass, J.R., McCraney, W.T., Thacker, C.E., Alfaro, M.E., Friedman, S.T., Ludt, W.B., Friedman, M., Price, S.A., Dornburg, A., Faircloth, B.C., Wainwright, P.C., Near, T.J. 2022. Prolonged morphological expansion of spiny-rayed fishes following the end-Cretaceous. *Nature Ecology & Evolution* <https://doi.org/10.1038/s41559-022-01801-3>
- (90) Girard, M.G., Davis, M.P., Hui, T.H., Wedd, D., **Chakrabarty, P.**, Ludt, W.B., Summers, A.P., Smith, W.L., 2022. Phylogenetics of archerfishes (Toxotidae) and the evolution of toxotid shooting apparatus. *Integrative and Organismal Biology* 4: 1-29.
- (89) Poo, S., Whitfield, S., Shepack, A., Watkins-Colwell, G.J., Bogisch, A., Goodwin, J., Nelson, G., **Chakrabarty, P.** 2022 Bridging the research gap between live collections (such as zoos, aquariums, botanical gardens, etc.) and natural history museums. *BioScience* 72, 449-460. [COVER ARTICLE]
- (88) Hart, P.B., Arnold, R., Alda, F., Kenaley, C.P., Pietsch, T.W., Hutchinson, D., **Chakrabarty, P.** 2022. Evolutionary relationships of anglerfishes (Lophiiformes) reconstructed using ultraconserved elements. *Molecular Phylogenetics and Evolution* 171: 107459.
- (87) Crawford, C.H., Webber-Schultz, A., Hart, P.B., Randall, Z.S., Kellogg, A.B., Amplo, H.E., Cerrato-Morales, C., Suvarnaraksha, A., Page, L.M., **Chakrabarty, P.**, Flammang B.E. 2022. They Like to Move it (Move it): Walking Kinematics of Balitorid Loaches of Western Thailand. *Journal of Experimental Biology* 225 (6): jeb242906
- (86) Desforges, J.E., Clarke, J., Harmsen, E.J., Jardine, A.M., Robichaud, J.A., Serré, S., **Chakrabarty, P.**, Bennett, J.R., Hanna, D.E.L., Smol, J.P., Rytwinski, T., Taylor, J.J., Martel, A.L., Winegardner, A.K., Marty, J., Taylor, M.K., O'Connor, C.M., Robinson, S.A., Reid, A.J., Creed, I.F., Gregory-Eaves, I., Lapointe, N.W.R., Cooke, S.J. 2022. On the alarming state of freshwater biology in Canada. *Canadian Journal of Fisheries and Aquatic Sciences* 79, 352-365.
- (85) Rodriguez-Machado, S., Rodriguez-Cabrera, T.M., **Chakrabarty, P.** 2021. Identity of fish fry from the “Teti” fishery in Eastern Cuba. *Caribbean Journal of Science* 51: 194-201.
- (84) Alda, F., Ludt, W.B., Elías, D.J., McMahan, C.D., **Chakrabarty, P.** 2021. Comparing ultra-conserved elements and exons for phylogenomic analysis of Middle American cichlids: when data agree to disagree. *Genome Biology and Evolution* 13 evab161
- (83) McMahan, C.D., Elías, D.J., Li, Y., Domínguez-Domínguez, O., Rodriguez-Machado, S., Morales-Cabrera, A., Velásquez-Ramírez, D., Piller, K.R., **Chakrabarty, P.** and Matamoros, W.A., 2021. Molecular systematics of the *Awaous banana* complex (River Gobies; Teleostei: Oxudercidae). *Journal of Fish Biology* 99:970-979.
- (82) **Chakrabarty, P.**, Desai, U.R., Peck, C., Mah, C., Singer, R., Downey, R., Rodriguez, E., Bart, P.J., 2021. Preliminary Checklist of the Undersea Fauna of the Ross Sea Antarctic Continental Shelf. *Miscellaneous Publication of the University of Michigan Museum of Zoology* 209: 1-11
- (81) Buckner, J.C., Sanders, R.C., Faircloth, B.C. and **Chakrabarty, P.**, 2021. Science Forum: The critical importance of vouchers in genomics. *Elife*, 10, p.e68264.
- (80) Roberts, A.S., Hodge, J.R., **Chakrabarty, P.**, Wainwright, P.C., 2021. Anatomical basis of jaw protrusion directionality in ponyfishes (Family Leiognathidae). *Journal of Morphology* 282 (3): 427-437.
- (79) Ludt, W.B., Jabado, R., Al Hameli, S.M., Freeman, L., Teruyama, G., **Chakrabarty, P.**, Al Dhaheri, S.S. 2020. Establishing a reference collection and barcoding the fish biodiversity along the coast of the United Arab Emirates. *Journal of the Ocean Science Foundation* 35 : 54-64
- (78) Elías, D.J., McMahan, C.D., Matamoros, W.A., Gomez-Gonzalez, A., **Chakrabarty, P.**, Piller, K.R. 2020. Scale(s) Matter: Deconstructing an Area of Endemism for Middle American Freshwater Fishes. *Journal of Biogeography* 47: 2483-2501
- (77) Crawford, C.H., Randall, Z.S., Hart, P.B., Page, L.M., **Chakrabarty, P.**, Suvarnaraksha, A., Flammang, B.E., 2020. Skeletal and Muscular Pelvic Morphology of Hillstream Loaches (Cypriniformes: Balitoridae). *Journal of Morphology* 281: 1280-1295.
- (76) Craig, J.M., Carvalho, T.P., **Chakrabarty, P.**, Derouen, V., Ortega, H., Petry, P., Reis, R., Tagliacollo, V.A., Albert, J.S. 2020. Using community phylogenetics to access phylogenetic structure in the Fitzcarrald region of Western Amazonia. *Neotropical Ichthyology* 18 (2): 1-16 e20004
- (75) McMahan, C.D., Montejo, C.F., Ginger, L., Carrasco, J.C., **Chakrabarty, P.**, W.A. 2020. Climate change models predict decreases in the range of a microendemic freshwater fish in Honduras. *Scientific Reports* 10: 1-10.
- (74) Hart, P.B., Niemiller, M.L., Burress, E.D., Armbruster, J.W., Ludt, W.B., **Chakrabarty, P.** 2020. Cave-Adapted Evolution in the North American Amblyopsid Fishes Inferred Using Ultraconserved Elements. *Evolution* 74:936-949

- (73) Faircloth, B.C., Alda, F., Hoekzema, K., Burns, M.D., Oliveira, C., Albert, J.S., Melo, B.F., Ochoa, L.E., Roxo, F.F., **Chakrabarty, P.**, Sidlauskas, B., Alfaro, M.E., 2020. A target enrichment bait set for studying relationships among ostariophysan fishes *Copeia*, 108 (1):47-60.
- (72) Ludt, W.B., Rocha, L.A., **Chakrabarty, P.**, 2020. The first complete mitochondrial genomes of sawtail surgeonfishes (Acanthuridae: *Prionurus*). *Mitochondrial DNA Part B* 5, 212-213.
- (71) **Chakrabarty, P.**, Ludt, W.B., Parker, S. (2019) The Louisiana State University Museum of Natural Science Fish Collections; An important modern collection of Neotropical fishes and DNA. *Boletim Sociedade Brasileira de Ictiologia* 129: 45-52.
- (70) Alda, F., Tagliacollo, V.A., Bernt, M.J., Waltz, B.T., Ludt, W.B., Faircloth, B.C., Alfaro, M.E., Albert, J.S., **Chakrabarty, P.** (2019) Resolving Deep Nodes in an Ancient Radiation of Neotropical Fishes in the Presence of Conflicting Signals from Incomplete Lineage Sorting. *Systematic Biology* 68, 573-593.
- (69) Sparks, J.S., **Chakrabarty, P.** (2019) Description of a New Species of Ponyfish (Teleostei: Leiognathidae: Equulitini: *Photolateralis*) from the Gulf of Oman. *American Museum Novitates* 3929, 1-14.
- (68) Kenaley, C., State, A., Ludt, W.B., **Chakrabarty, P.** (2019) Comparative functional and phylogenomic analyses of host association in the remoras, a family of hitchhiking fishes. *Integrative Organismal Biology* 1:1-14.
- (67) Ludt, WB, Bernal MA, Burrige, C, **Chakrabarty P.** (2019) A taxonomic revision of Cheilodactylidae and Latridae (Centrarchiformes: Cirrhitidae) using morphological and genomic characters *Zootaxa* 4585:121-141.
- (66) Ludt, WB, Bernal MA, Kenworthy E, Salas E, **Chakrabarty P.** (2019) Genomic, ecological, and morphological approaches to investigating species limits: a case study in modern taxonomy from Tropical Eastern Pacific surgeonfishes *Ecology & Evolution* 9: 4001-4012.
- (65) Kuang, T., Tornabene, L., Li, J., Jiang, J., **Chakrabarty, P.**, Sparks, J.S., Naylor, G.J.P., Li, C. (2018) Phylogenomic analysis on the exceptionally diverse fish clade Gobioidae (Actinopterygii:Gobiiformes) and data-filtering based on molecular clocklikeness. *Molecular Phylogenetics and Evolution* 128:192-202.
- (64) Elías, D.J., Mochel, S.F., **Chakrabarty, P.**, McMahan, C. (2018) First record of the non-native Pacu, *Piaractus brachipomus* in Lago Petén-Itzá, Guatemala, Central America. *Occasional Papers of the Museum of Natural Science* 88, 1-6.
- (63) Burrell, E.D., Alda, F., Duarte, A., Loureiro, M., Armbruster, J.W., **Chakrabarty, P.** (2018) Phylogenomics of the pike cichlids (Cichlidae: *Crenicichla*) and the rapid evolution and trophic diversification in an incipient species flock. *Journal of Evolutionary Biology* 31: 14-30 [Cover Article]
- (62) Alda, F., Adams, A.J., McMillan, W.O., **Chakrabarty, P.** (2018) Mitogenomic divergence between three pairs of putative geminate fishes from Panama. *Mitochondrial DNA Part B* 3: 1-5.
- (61) Ludt, W.B., Morgan, L., Bishop, J., **Chakrabarty, P.** (2018) A quantitative and statistical biological comparison of three semi-enclosed seas: The Red Sea, the Persian (Arabian) Gulf, and the Gulf of California Sea. *Marine Biodiversity* 48, 2119-2124.
- (60) Alda, F., Adams, A.J., McMillan, W.O., **Chakrabarty, P.** (2017) Complete mitochondrial genomes of three Neotropical sleeper gobies: *Eleotris amblyopsis*, *Eleotris picta* and *Hemieleotris latifasciata* (Gobiiformes: Eleotridae) *Mitochondrial DNA Part B: Resources* 2: 747-750.
- (59) **Chakrabarty, P.**, Faircloth, B., Ludt, W.B., McMahan, C.D., Near, T.J., Dornberg, A., Albert, J.S., Arroyave, J., Stiassny, M.L.J.S., Sorenson, L., Alfaro, M.E. (2017) Phylogenomic Systematics of Ostariophysan fishes: Ultraconserved Elements Support the surprising non-monophyly of Characiformes. *Systematic Biology* 66(6): 881-895. [Cover and lead article]
- (58) Butler, J.M., Whitlow, S.M., Gwan, A.P., **Chakrabarty, P.**, Maruska, K.P. (2017) Swim bladder morphology changes with female reproductive state in the mouth brooding African cichlid *Astatotilapia burtoni*. *Journal of Experimental Biology* 220: 4463-4470.
- (57) McMahan, C.D., Ginger, L., Cage, M., **Chakrabarty, P.**, Johnston, M., Matamoros, W.A., (2017) Pleistocene to Holocene Expansion of the Black-belt Cichlid in Central America, *Vieja maculicauda* (Teleostei: Cichlidae). *PLoS* 12(5):e0178439.
- (56) McMahan, C.D., Kutz, J., Murray, C.M., **Chakrabarty, P.**, Geheber, A.D., Elías, D. (2017) Objectively measuring subjectively described traits: geographic variation in body shape and caudal coloration pattern within *Vieja melanura* (Teleostei: Cichlidae). *Biologia Tropical* 65:623-631.
- (55) Evans, K.M., Waltz, B., Tagliacollo, V., **Chakrabarty, P.**, Albert, J.S. (2017) Why the short face? Developmental disintegration of the neurocranium drives convergent evolution in neotropical electric fishes *Ecology and Evolution* 2017, 1-21.
- (54) Tagliacollo, V.A., Duke-Sylvester, S., Matamoros, W.A., **Chakrabarty, P.** & Albert, J.S. (2017) Coordinated Dispersal and Pre-Isthmian Assembly of the Central American Ichthyofauna. *Systematic Biology* 66:183-196.
- (53) Bagley, J.C., Matamoros, W.A., McMahan, C.D., Tobler, M., **Chakrabarty, P.**, Johnson, J.B. (2016) Phylogeography and species delimitation in convict cichlids (Cichlidae: *Amatitlania*): implications for taxonomy and Plio-Pleistocene evolutionary history in Central America. *Biological Journal of the Linnean Society* 120:155-170

- (52) Matamoros, W.A., McMahan, C.D., Mejia, C.R., House, P.H., Armbruster, J.W., **Chakrabarty, P.** (2016) First record of the non-native suckermouth armored catfish *Hypostomus cf. niceforoi* (Fowler 1943) (Siluriformes:Loricariidae) from Central America. *Occasional Papers Museum of Natural Science* 87: 1-13.
- (51) Walsh, S.J., **Chakrabarty, P.** (2016) A New Genus and Species of Blind Sleeper (Teleostei: Eleotridae) from Oaxaca, Mexico: First Obligate Cave Gobiiform in the Western Hemisphere. *Copeia* 104: 506-517.
- (50) **Chakrabarty, P.**, O'Neill, G.A., Hardy, B., Ballangee, B. (2016) An Update on the Status of Collections of Endemic Gulf of Mexico Fishes Put at Risk by the 2010 Oil Spill. *Biodiversity Data Journal* 4: e8728
- (49) Bacon, C.D., Silvestro, D., Jaramillo, C.A., Smith, B.T., **Chakrabarty, P.**, Antonelli, A. (2015) Reply to Lessios and Marko et al.: An early and progressive biotic interchange across the Isthmus of Panama is robust to missing data and biological biases. *Proceedings of the National Academy of Sciences* 112: E5767–E5768.
- (48) McMahan, C.D., Matamoros, W.A., Piller, K.R., **Chakrabarty, P.** (2015) Taxonomy and systematics of the herichthyins (Cichlidae: Tribe Heroini), with the description of eight new Middle American Genera. *Zootaxa* 3999 (2): 211–234.
- (47) Ng, H.H., Tan, H.H., Lim, K.K.P., Ludt, W.B., **Chakrabarty, P.** (2015) Fishes of the Eastern Johor Strait, *Raffles Bulletin of Natural History* 31: 303-337.
- (46) **Chakrabarty, P.**, Sparks, J.S. (2015) Formalizing the names of subfamilies and tribes of ponyfishes (Leiognathidae Gill 1893). *Zootaxa* 3964: 298-299.
- (45) Bacon, C.D., Silvestro, D., Jaramillo, C.A., Smith, B.T., **Chakrabarty, P.**, Antonelli, A. (2015) Biological evidence supports an early and complex emergence of the Isthmus of Panama. *Proceedings of the National Academy of Sciences* 112: 6110-6115.
- (44) Sparks, J.S., **Chakrabarty, P.** (2015) Description of a new genus of ponyfishes (Teleostei: Leiognathidae), with a discussion of the current generic-level composition of the family. *Zootaxa* 3947:181-190.
- (43) Matamoros, W.A., McMahan, C.D., **Chakrabarty, P.**, Albert, J.S., (2015) Derivation of the Freshwater Fish Fauna of Central America Revisited: Myer's hypothesis in the twenty-first century. *Cladistics* 31: 177-188.
- (42) Oldfield, R.G., Mandrekar, K., Hendrickson, D.A., **Chakrabarty, P.**, Hofmann, H.A. (2015). Parental care in the Cuatro Ciénegas cichlid *Herichthys minckleyi* (Teleostei: Cichlidae) *Hydrobiologia* 748, 233-257.
- (41) Ludt, W.B., Rocha, L.A., Erdmann, M.V., **Chakrabarty, P.**, (2015) Skipping across the tropics: the evolutionary history of sawtail surgeonfishes (Acanthuridae: *Prionurus*). *Molecular Phylogenetics and Evolution* 84: 166-172.
- (40) Derouen, V., Ludt, W.L., Ho, H.C., **Chakrabarty, P.**, (2015) Examining Evolutionary Relationships and Shifts in Depth Preferences in Batfishes (Lophiiformes: Ogocephaloidei) *Molecular Phylogenetics and Evolution* 84: 27-33.
- (39) McMahan, C.D., Matamoros, W.M., Barraza, E., Kutz, J., **Chakrabarty, P.** (2014) Taxonomic Status of the Lago Coatepeque Endemic Convict Cichlid *Amatitlania coatepeque* (Teleostei: Cichlidae). *Copeia* (4):633-638.
- (38) **Chakrabarty, P.**, Niemiller, M.L., Prejean, J., (2014) The Hoosier cavefish, a new and endangered species (Amblyopsidae: *Amblyopsis*) from the caves of southern Indiana. *ZooKeys* 412: 41-57.
- (37) Rocha, L. et al., **Chakrabarty, P.**, with 115 other authors (including E.O.Wilson), (2014) Specimen collection: an essential tool. *Science* 344, 814-815.
- (36) **Chakrabarty, P.**, Warren, M., Page, L., Baldwin, C. (2013) GenSeq: An updated nomenclature for genetic sequences and a formal ranking of sequences from type and non-type sources. *ZooKeys* 346:29-41.
- (35) McMahan, C., **Chakrabarty, P.**, Smith, W.L.M., Sparks, J.S., Davis, M.P. (2013) Temporal Patterns of Diversification across Global Cichlid Biodiversity (Acanthomorpha: Cichlidae). *PLoS One* 8(8): e71162 (pg. 1-9).
- (34) Matamoros, W.A., **Chakrabarty, P.**, Angulo-Sibaja, A., Garita-Alvarado, C.A., McMahan, C.D., (2013) A new species of *Roeboides* (Teleostei:Characidae) from Costa Rica and Panama, with a key to the Middle American species of the genus *Neotropical Ichthyology* 11: 285-290.
- (33) McMahan, C.D., Matamoros, W.A., Alvarez Calderon, F.S., Henríquez, W.Y., Recinos, H.M., **Chakrabarty, P.**, Barraza, E. & Herrera, N. (2013) Checklist of the Inland Fishes of El Salvador. *Zootaxa* 3608: 440-446.
- (32) Matamoros, W.A., Schaefer, J.F., **Chakrabarty, P.**, Hernandez, C.L. (2012) *Profundulus kreiseri*, a new species of Profundulidae (Teleostei: Cyprinodontiformes) from northwestern Honduras. *ZooKeys* 227: 49-62.
- (31) Sparks, J.S., **Chakrabarty, P.** (2012) Revision of the endemic Malagasy cavefish genus *Typhleotris* (Teleostei: Gobiiformes: Eleotridae), with a discussion of its phylogenetic placement and the description of a new species. *American Museum Novitates* 3764: 1-28.
- (30) **Chakrabarty, P.**, Davis, M.P., Sparks, J.S. (2012) The first record of a trans-oceanic sister-group relationship between obligate vertebrate troglobites. *PLoS One* 7:e44083 (pg.1-8).
- (29) **Chakrabarty, P.**, Lam, C., Hardman, J., Aaronson, J., House, P.H., Janies, D. (2012) SpeciesMap: A web-based application for visualizing the overlap of distributions and pollution events, with a list of fishes put at risk 2010 Gulf of Mexico Oil Spill. *Biodiversity and Conservation* 21: 1865-1876.
- (28) Wiley, E.O., **Chakrabarty, P.**, Craig, M.T., Davis, M.P., Holcroft, N.I., Mayden, R.L., Smith, W.L. (2011) A response to Mooi, Williams and Gill In: *Morphological and molecular approaches to the phylogeny of fishes: Integration or conflict?* (M.R. de Carvalho and M.T. Craig, eds.) *Zootaxa* 2946, 33-37. [INVITED PAPER]

- (27) Wiley, E.O., **Chakrabarty, P.**, Craig, M.T., Davis, M.P., Holcroft, N.I., Mayden, R.L., Smith, W.L. (2011) Will the real phylogeneticists please stand up? In: *Morphological and molecular approaches to the phylogeny of fishes: Integration or conflict?* (M.R. de Carvalho and M.T. Craig, eds.) *Zootaxa* 2946, 7-16. [INVITED PAPER]
- (26) **Chakrabarty, P.**, Davis, M.P., Smith, W.L., Baldwin, Z.H., Sparks, J.S. (2011) Is sexual selection driving diversification of the bioluminescent ponyfishes (Teleostei: Leiognathidae)? *Molecular Ecology* 20, 2818-2834.
- (25) **Chakrabarty, P.**, Davis, M.P., Smith, W.L., Berquist, R., Gledhill, K., Sparks, J.S., and Frank, L. (2011) Evolution of the light organ system in ponyfishes (Teleostei: Leiognathidae) *Journal of Morphology* 272, 704-721.
- (24) Harrison, I.J., **Chakrabarty, P.**, Freyhof, J., Craig, J.F. (2011) Correct nomenclature and recommendations for preserving and cataloguing voucher material and genetic sequences. *Journal of Fish Biology* 78, 1283-1290.
- (23) Schaefer, S.A., **Chakrabarty, P.**, Geneva, A., Sabaj-Perez, M.H. (2011) Nucleotide sequence data confirm monophyly and local endemism of variable morphospecies of Andean astrolepid catfishes (Siluriformes: Astroblepidae). *Zoological Journal of the Linnean Society* 162, 90-102.
- (22) Davis, M.P., **Chakrabarty, P.** (2011) Tripodfish (Aulopiformes: Bathypetroids) locomotion and landing behaviour from video observation at bathypelagic depths in the Campos Basin of Brazil. *Marine Biology Research* 7, 297-303.
- (21) **Chakrabarty, P.**, (2010) Genetypes: a concept to help integrate molecular systematics and traditional taxonomy. *Zootaxa* 2632, 67-68.
- (20) **Chakrabarty, P.** (2010) The transitioning state of systematic ichthyology. *Copeia* 2010 (3), 513-514.
- (19) Ho, H.C. **Chakrabarty, P.**, Sparks, J.S., (2010) Review of the *Halieutichthys aculeatus* species complex (Lophiiformes: Ogcocephalidae), with descriptions of two new species. *Journal of Fish Biology* 77, 841-869.
- (18) **Chakrabarty, P.**, (2010) Status and phylogeny of Milyeringidae, with the description of a new blind cave fish from Australia, *Milyeringa brooksi*, n. sp. *Zootaxa* 2557, 19-28.
- (17) **Chakrabarty, P.**, Ho, H.C., Sparks, J.S. (2010) Taxonomic review of the ponyfishes (Perciformes: Leiognathidae) of Taiwan. *Marine Biodiversity* 140, 107-121.
- (16) **Chakrabarty, P.**, Chu, J., Nahar, L., and Sparks, J.S. (2010) Geometric morphometrics uncovers an undescribed ponyfish (Teleostei: Leiognathidae: *Equulites*) with a note on the taxonomic status of *Equula berbis* Valenciennes. *Zootaxa* 2427, 15-24.
- (15) **Chakrabarty, P.**, Amarasinghe, T., Sparks, J.S., (2009) Redescription of Ponyfishes (Teleostei: Leiognathidae) of Sri Lanka and the status of *Aurigequula* Fowler 1918. *Ceylon Journal of Science (Biological Sciences)* 37 (2), 143-161.
- (14) Smith, W.L., **Chakrabarty, P.**, Sparks, J.S., (2008) Phylogeny, taxonomy and evolution of Neotropical cichlids (Percomorpha: Cichlidae: Cichlinae). *Cladistics* 24, 1 – 17.
- (13) **Chakrabarty, P.**, Sparks, J.S. (2008) Diagnoses for *Leiognathus* Lacepède 1802, *Equula* Cuvier 1815, *Equulites* Fowler 1904, *Eublekeeria* Fowler 1904, and a new ponyfish genus (Teleostei: Leiognathidae). *American Museum Novitates* 3623, 1-11.
- (12) **Chakrabarty, P.**, Sparks, J.S. (2007) Phylogeny and taxonomic revision of *Nuchequula* Whitley 1932 (Teleostei: Leiognathidae), with the description of a new species. *American Museum Novitates* 3588, 1 – 28.
- (11) Sparks, J.S., **Chakrabarty, P.** (2007) A new species of ponyfish (Teleostei:Leiognathidae: *Photoplagios*) from the Philippines. *Copeia* 2007 (3), 622 – 629.
- (10) **Chakrabarty, P.**, Sparks, J.S. (2007) Relationships of the New World cichlid genus *Hypsophrys* Agassiz 1859 (Teleostei: Cichlidae), with diagnoses for the genus and its species. *Zootaxa* 1523, 59 – 64.
- (9) **Chakrabarty, P.** (2007) A morphological phylogenetic analysis of Middle American cichlids with special emphasis on the section ‘*Nandopsis*’ *sensu* Regan. *Miscellaneous Publications, Museum of Zoology, University of Michigan* 198, 1 – 31.
- (8) **Chakrabarty, P.**, Oldfield, R.G., Ng, H.H., (2006) *Nandus prolixus*, a new species of leaf fish from northeastern Borneo (Teleostei: Perciformes: Nandidae). *Zootaxa* 1328, 51 – 61.
- (7) **Chakrabarty, P.** (2006) Systematics and historical biogeography of Greater Antillean Cichlidae. *Molecular Phylogenetics and Evolution* 39 (3), 619 – 627.
- (6) **Chakrabarty, P.** (2006) Taxonomic status of the Hispaniolan Cichlidae. *Occasional Papers of the Museum of Zoology, University of Michigan* 737, 1 – 16.
- (5) **Chakrabarty, P.**, Ng, H.H. (2005) The identity of the catfishes identified as *Myristus cavasius* (Hamilton, 1822) (Teleostei: Bagridae), with a description of a new species from Myanmar. *Zootaxa* 1093, 1 – 24.
- (4) Pikitch, E.K., Doukakis, P., Lauck, L., **Chakrabarty, P.**, Erickson, D.L. (2005) Status, trends and management of sturgeon and paddlefish fisheries. *Fish and Fisheries* 6 (3), 233 – 265.
- (3) **Chakrabarty, P.** (2005) Testing conjectures about morphological diversity in cichlids of Lakes Malawi and Tanganyika. *Copeia* 2005 (2), 259 – 273.
- (2) **Chakrabarty, P.** (2004) Cichlid biogeography: comment and review. *Fish and Fisheries* 5 (2), 97 – 119.
- (1) Stiassny, M.L.J., **Chakrabarty, P.**, Loiselle, P. (2001) Relationships of the Madagascan cichlid genus *Paretroplus*, with a description of a new species from the Betsiboka River drainage of northwestern Madagascar. *Ichthyological Explorations of Freshwaters* 12, 29 – 40.

Books Chapters:

- (10) Zhao, Y., Gluesenkamp, A.; Fenolio, D.; Soares, D.; Niemiller, M.; Bichuette, M. E.; Chakrabarty, P. 2022. Diversity, Distribution and Conservation of Cavefish in China. Judson Wynne (ed.) *In: Cave Biodiversity: Speciation and Diversity of Subterranean Fauna*, 271-305.
- (9) Sparks, J.S., Chakrabarty, P. Milyeringidae: *Typhleotris* In: Goodman, S. M. (ed.) (2022). *The new natural history of Madagascar*. Princeton, Princeton University Press.. pgs. 1298-1304.
- (8) Chakrabarty, P., Byrnes, M., Sparks, J.S., Gobiidae: *Glossogobius ankaranensis* In: Goodman, S. M. (ed.) (2022). *The new natural history of Madagascar*. Princeton, Princeton University Press. pgs. 1295-1298.
- (7) Chakrabarty, P., Sparks, J.S. 2022. Leiognathidae (Ponyfish, Slipmouths) In: Coastal Fishes of the Western Indian Ocean. (Heemstra, P.C., Heemstra, E., Ebert, D.A., Holleman, W., Randall, J.E., eds). Volume 3, pp. 415-428. Color plates 136-140.
- (6) Chakrabarty, P., Midway, S.R., Hasler, C.T. 2022. Methods in Fish Biology: The Modern Toolbox *In: Midway, S., Hassler, C., Chakrabarty, P. (Editors) Methods in Fish Biology 2nd Edition*, American Fisheries Society.
- (5) Niemiller, M.L., Bichuette, M.E., Chakrabarty, P., Fenolio, D.B., Gluesenkamp, A.G., Soares, D., Zhao, Y. (2019) Chapter 26: Cavefishes. (2019) *In: Encyclopedia of Caves 3rd edition* White, W., Culver, D., Pipan, T. (eds.). pp.227-254 INVITED.
- (4) Chakrabarty, P. (2017) Teaching Louisiana Students About Evolution by Comparing the Anatomy of Fishes and Humans. pp. 179- 189 *In: Evolution & Education in the American South*. Christopher D. Lynn, Amanda Glaze, Laura Reed, & William Evans (eds.) INVITED.
- (3) Chakrabarty, P., Shakya, S. (2016) Epistemological concerns for estimating extinction: Introducing a New Model for Comparing Phylogenies. pp. 141- 155 *In: Assumptions inhibiting scientific progress in comparative biology*. Parenti, L., Crother, B. (eds.) INVITED.
- (2) Chakrabarty, P., Sparks, J.S. (accepted) Leiognathidae (Ponyfish, Slipmouths) In: The Coastal Fishes of the Western Indian Ocean. Heemstra, P.C., Randall, J.E., (eds.) INVITED.
- (1) Chakrabarty, P. Albert, J. (2011) Not so Fast: A New Take on the Great American Biotic Interchange. pp. 293-305 *In: Historical Biogeography of Neotropical Freshwater Fishes*. J. S. Albert and R.E. Reis (eds.) INVITED, FINAL CHAPTER.

Books Reviews:

- (25) Chakrabarty, P., 2023. [Review of] Ichthyopedia: A biographical dictionary of ichthyologists. *Fisheries* 48, 483 <https://doi.org/10.1002/fsh.10994>
- (24) Chakrabarty, P. (2018) [Review of] Luminous creatures: the history and science of light production in living organisms. [Invited Review] *Choice Connect* December 2018 (56) #4.
- (23) Chakrabarty, P. (2018) [Review of] Does It Fart *Choice Connect* November 2018 (56) #3. [Invited Review]
- (22) Chakrabarty, P. (2018) [Review of] Fish Histology: from cells to organs *Choice Connect* September 2018 (56) #1. Invited Review.
- (21) Chakrabarty, P. (2016) [Review of] The Fishes of New Zealand. *Copeia* 104: 974-975.
- (20) Chakrabarty, P. (2016) [Review of] Life in the Dark: Illuminating Biodiversity in the Shadowy Haunts of Planet Earth. Dante Fenolio. *Copeia* 104: 785.
- (19) Chakrabarty, P., Noel, A.C., Noel, C.C., (2016) [Review of] *Natural Voices* by G. Grossman. *Copeia* 104 (2), 612-613.
- (18) Chakrabarty, P. (2015) [Review of] Freshwater Fishes of North America: Volume 1: Petromyzontidae to Catastomidae. *Copeia* 2015 (1): 227-229.
- (17) Chakrabarty, P. (2014) [Review of] Fire in the Deep: Bioluminescence and Henry Compton's Art of the Deep. *CHOICE* August 2014 (51) # 12, p. 2213 Invited Review.
- (16) Chakrabarty, P. (2014) [Review of] Ecology of Australian Freshwater Fishes. *CHOICE* March 2014 (51) #7 p.1247. Invited Review.
- (15) Chakrabarty, P. (2013) [Review of] Systematics, Biology, and Distribution of the Species of the Oceanic Oarfish Genus *Regalecus* (Teleostei, Lampridiformes, Regalecidae) *Copeia* 2013 (2): 356.
- (14) Chakrabarty, P. (2013) [Review of] The freshwater fishes of Suriname. *CHOICE* July, 50 (11): 2045-46. Invited Review.
- (13) Chakrabarty, P. (2012) [Review of] Ecology and evolution of poeciliid fishes. *CHOICE* February 2012 49 (Feb): 3257. Invited Review.
- (12) Chakrabarty, P. (2012) [Review of] Global perspectives on the biology and life history of the white shark., *CHOICE* October 2012 (Oct): 3257. Invited Review.
- (11) Chakrabarty, P. (2012) [Review of] Trees of Life: A Visual History of Evolution. *Systematic Biology* 61: 1083.
- (10) Chakrabarty, P. (2012) [Review of] The Biology of Gobies *Copeia* 2012 (2): 359-360.
- (9) Chakrabarty, P., Derouen, V. (2012) [Review of] Fishes: The Animal Answer Guide Do Fish Sleep? Fascinating Answers to Questions About Fishes *Copeia* 2012 (2): 361.
- (8) Chakrabarty, P. (2011) [Review of] The rise of fishes: 500 million years of evolution by John Long. *CHOICE* June 2011 48 (10), 1944-1945. [Invited Review]

- (7) Chakrabarty, P. and Fink, W.L. (2011) [Review of] Piranha 3D. *Copeia* 2011 (1): 181.
- (6) Chakrabarty, P. (2011) [Review of] Reproduction and sexuality in marine fishes: patterns and processes, ed. by Kathleen S. Cole. *CHOICE* April 2011 48 (8), 1513. [Invited Review]
- (5) Chakrabarty, P. (2010) [Review of] Biology of Subterranean Fishes. *Copeia* 2010, 736.
- (4) Chakrabarty, P. (2010) [Review of] Deep-Sea Fishes of Peru. *Copeia* 2010 (4), 735-736.
- (3) Sidlauskas, B.L. and Chakrabarty, P. (2010) [Review of] The Diversity of Fishes: Biology, Evolution and Ecology – 2nd edition. *Copeia* 2010, 527-529.
- (2) Chakrabarty, P. (2009) [Review of] Your Inner Fish, A Journey into the 3.5-Billion-Year History of the Human Body. *Copeia* 2009 (2), 421.
- (1) Chakrabarty, P. (2007) [Review of] An Atlas of Michigan Fishes with keys and illustrations for their identification. Bailey, R.M., Latta, W.C., Smith, G.R. *Copeia* 2007 (1), 238 – 239.

Published Abstracts:

- Flammang, B.E., Crawford, C.H., Soares, D., Suvarnaraksa, Chakrabarty, P., Hart, P., Page, L., Randall, Z. (2019) Terrestrial Waling in Fishes with tetrapod-like skeletons. *Journal of Morphology* 280: S57.
- Hart, P.B, Niemiller, M.L., Burress, E.D., Armbruster, J.W., Chakrabarty, P. (2019) Phylogenomics and shape variation among amblyopsid fishes. *Integrative and Comparative Biology* 59: E94.
- Crawford, C.H., Randall, Z., Hart, P., Chakrabarty, P., Page, L., Flammang, B.E., (2019) Terrestrial Waling in Fishes with tetrapod-like skeletons. *Integrative and Comparative Biology* 59: E94.
- Zhao Y, Fenolio D, Soares D, Gluesenkamp A, Niemiller M, Bichuette M, Chakrabarty P (2018) Beauty underground: cavefishes in China. ARPHA Conference Abstracts 1: e29462
- Hart, P.B, Niemiller, M.L., Chakrabarty, P. (2019) Phylogenomics of the Cave-, Spring, and Swampfish of North America (Percopsiformes: Amblyopsidae). *Integrative and Comparative Biology* 58: E25.
- Chakrabarty, P., Smith, W.L., Sparks, J.S., (2010) Abstract: Testing the role of sexual selection in the evolution of ponyfishes. In: Szumik, C., Goloboff, P. A summit of cladistics: abstracts of the 27th Annual Meeting of the Willi Hennig Society and VIII Reunion Argentina de Cladística y Biogeografía. *Cladistics* 26, 202–226.
- Chakrabarty, P. (2004) Abstract: Relationships and biogeography of Antillean Cichlids. In: Stevenson, D. W., Abstracts of the 22nd Annual Meeting of the Willi Hennig Society. *Cladistics* 20 (2004), 76-100.

Letters/Others Articles:

- Sills, J. 2022. (and NextGen Voices contributors) Insights: Social media: Good or evil? *Science* 375, 608-609.
- Duncan, G., Ji, Y., Lefort, M.C., Mehriani-Shai, R., Chakrabarty, P. and Jimenez, M.F.T., 2021. Beyond DNA: The rest of the story. *Science*, 371(6529), pp.560-563.
- Chakrabarty, P. (2018) Working Life: My Year As a Fed. *Science* 359: 1066.
- Chakrabarty, P. (2018) NexGen Voices. Research Resolutions *Science* 359: 6-28.
- Chakrabarty, P. (2017) NexGen Voices. Facilitating Conservation *Science* 356: 242-244.
- Chakrabarty, P. (2017) NexGen Voices. PreJudgment Call *Science* 355: 22-23.
- Chakrabarty, P. (2010) Letter to the Editor: Oil might lie undersea in perpetuity. *The Advocate, Baton Rouge*. May 20, 2010.
- Chakrabarty, P. (2008) AIR Vents: Chakrabarty, Fish Photo Detective. *Annals of Improbable Research* 14 (3), 3.
- Chakrabarty, P. (2006) The Greater Antillean Cichlids. *Buntbarsche Bulletin* 234, 18-22.
- Chakrabarty, P. (2005) Papa's Fish: A Note on *Neomerinthe hemingwayi*. *The Hemingway Review*. 25, 109-111.

Signatories:

- (1) Ceriaco, L.M., Gutiérrez, E.E., Dubois, A. and Carr, M., (2016) Photography-based taxonomy is inadequate, unnecessary, and potentially harmful for biological sciences. *Zootaxa*, 4196 (3), pp.435-445.
- (2) Barber, P.H., Hayes, T.B., Johnson, T.L. and Márquez-Magaña, L., 2020. Systemic racism in higher education. *Science*, 369(6510), pp.1440-1441. [With 10K+ Signatories]

Notable Education/Outreach Videos/Press:

Science Friday NPR (2023) [Ask An Expert \(Live\)](#); (2021) [Charismatic Creature Corner](#);
 TED-Ed (2020) – [What your DNA Can't Tell You](#)
 PBS (Brief But Spectacular) – [How Animals and Continents Are Interconnected](#)
 TED (2018) – [Four Billion Years of Evolution in Six Minutes](#)
 Ocean Luminaries (2018) – [The Big Ocean Myth](#)
 TED (2016) – [Clues to prehistoric times, found in blind cavefishes](#)
 TEDxLSU (2015) [Immortal Naturalist](#)