

Michael Jay Andres, Ph.D.
Curriculum Vitae

The University of Southern Mississippi
Department of Coastal Sciences
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Education

2014 The University of Southern Mississippi, Coastal Sciences, Ph.D.
2007 Texas A&M University at Galveston, Marine Biology, B.S.

Professional Positions

2016 to present
 Research Scientist, The University of Southern Mississippi
2015 to present
 Instructor, Summer Field Program, The University of Southern Mississippi
2015 to 2016
 Postdoctoral Researcher, The University of Southern Mississippi

Publications, * denotes undergraduate student

Andres, M.J., J.M. Higgs, P.O. Grammer, & M.S. Peterson. 2019. *Argulus* from the Pascagoula River, MS, USA, with an emphasis on those of the threatened Gulf Sturgeon, *Acipenser oxyrinchus desotoi*. *Diversity*. 11(12): 232. DOI: <https://doi.org/10.3390/d11120232>

Andres, M.J., E.E. Pulis, S.C. Curran, & R.M. Overstreet. 2018. On the systematics of some marine haploporids (Trematoda) with the description of a new species of *Megasolena* Linton, 1910. *Parasitology International*. 67: 805–815. DOI: <https://doi.org/10.1016/j.parint.2018.08.002>

Leaf, R.T., J. Trushenski, N.J. Brown-Peterson, & M.J. Andres. 2018. Temporal dynamics of lipid and fatty acid characteristics of Gulf Menhaden, *Brevoortia patronus*, in the northern Gulf of Mexico. *Regional Studies in Marine Science*. 24: 1–9. DOI: <https://doi.org/10.1016/j.rsma.2018.06.011>

Curran, S.S., E.E. Pulis, M.J. Andres, & R.M. Overstreet. 2018. Two new species of *Saccocoelioides* (Digenea: Haploporidae) with phylogenetic analysis of the family, including species of *Saccocoelioides* from North, Middle, and South America. *Journal of Parasitology*. 104: 221–239. DOI: 10.1645/17-189

Andres, M.J., W.T. Slack, M.S. Peterson, K. Kimmel, B.R. Lewis, & P.O. Grammer. 2018. Growth estimation of western population segment Gulf Sturgeon using length-at-age and mark-recapture data. *Transactions of the American Fisheries Society*. 147:139–150. DOI: 10.1002/tafs.10007

Brown-Peterson, N.J., R.T. Leaf, A.M. Schueller, & M.J. Andres. 2017. Reproductive dynamics of Gulf Menhaden (*Brevoortia patronus*) in the northern Gulf of Mexico: effects on stock assessments. *Fishery Bulletin*. 115: 284–299. DOI: 10.7755/FB.115.3.2

Claxton, A.T., A.D. Fuehring*, M.J. Andres, T.D. Moncrief, & S.S. Curran. 2017. Parasites of the Vermilion Snapper, *Rhomboplites aurorubens* (Cuvier), from the western Atlantic Ocean. *Comparative Parasitology*. 84: 1–14. DOI: dx.doi.org/10.1654/1525-2647-84.1.1

Fayton, T.J. & M.J. Andres. 2016. Amendment of *Plagioporus* Stafford, 1904 (Digenea: Opecoelidae), with a description of a new species from California and a phylogeny of freshwater plagioporines of the Holarctic. *Systematic Parasitology*. 93: 731–748. DOI: 10.1007/s11230-016-9664-6

Andres, M.J., E.E. Pulis, & R.M. Overstreet. 2016. Description of three species of *Isorchis* (Digenea: Atractotrematidae) from Australia. *Acta Parasitologica*. 61: 590–601. DOI: 10.1515/ap-2016-00

Schrandt, M.N., M.J. Andres, S.P. Powers, & R.M. Overstreet. 2016. Novel infection site and ecology of cryptic *Didymocystis* sp. (Trematoda) in the fish *Scomberomorus maculatus*. *Journal of Parasitology* 102: 297–305. DOI: 10.1645/15-772

Andres, M.J., M.S. Peterson, & R.M. Overstreet. 2016. Endohelminth parasites of some midwater and benthopelagic stomiiform fishes from the northern Gulf of Mexico. *Gulf and Caribbean Research* 27: 11–19. DOI: 10.18785.gcr.2701.02

Fayton, T.J., S.S. Curran, M.J. Andres, R.M. Overstreet, & C.T. McAllister. 2016. Two new species of *Homalometron* (Digenea: Apocreadiidae) from Nearctic freshwater fundulids, elucidation of the life cycle of *H. cupuloris*, and molecular phylogenetic analysis of some congeners. *Journal of Parasitology* 102: 94–104. DOI: 10.1645/15-8628v

Andres, M.J., S.S. Curran, T.J. Fayton, E.E. Pulis, & R.M. Overstreet. 2015. An additional genus and two additional species of Forticulcitinae (Digenea: Haploporidae). *Folia Parasitologica*. 62: 025. DOI: 10.14411/fp.2015.025

Andres, M.J., E.E Pulis, T.H. Cribb, & R.M. Overstreet. 2014. Erection of the haploporid genus *Litosaccus* n. g. and its phylogenetic relationship within the Haploporidae Nicoll, 1914. *Systematic Parasitology* 89: 185-194. DOI: 10.1007/s11230-014-9521-4

Andres, M.J., C.L. Ray*, E.E. Pulis, S.C. Curran, & R.M. Overstreet. 2014. Molecular characterization of two opacoelid trematodes from fishes in the Gulf of Mexico, with a description of a new species of *Helicometra*. *Acta Parasitologica* 59: 405-412. DOI: 10.2478/s11686-014-0258-7

Andres, M.J., E.E Pulis, & R.M. Overstreet. 2014. New genus of opacoelid trematode from *Pristipomoides aquilonaris* (Perciformes: Lutjanidae) and its phylogenetic affinity within the family Opacoelidae. *Folia Parasitologica* 61: 223-230. DOI: 10.14411/fp.2014.033

Pulis, E.E., S.S. Curran, M.J. Andres, & R.M. Overstreet. 2014. Change in rank of Megaperidae (Trematoda) to Megaperinae within the Apocreadiidae and description of *Haintestinum amplum* n. g., n. sp. *Parasitology International* 63: 269-274. DOI:10.1016/j.parint.2013.11.007

Andres, M.J. & R.M. Overstreet. 2013. A new species of *Podocotyloides* (Digenea: Opacoelidae) from the grey conger eel, *Conger esculentus*, in the Caribbean Sea. *Journal of Parasitology* 99: 619-623. DOI: 10.1645/12-155.1

Driggers, III, W.B., J.M. Hendon, M.J. Andres, S.S. Curran, C.T. Gledhill, M.A. Grace, M.D. Hendon, C.M. Jones, B.T. Noble, & K.R. Rademacher. 2010. Notes on the biology of an adult female *Chimaera cubana* captured off St. Croix, U.S. Virgin Islands. *Gulf and Caribbean Research* 22: 67-69.

Yeager, K.M., P.H. Santschi, H. Rifai, M. Suarez, R. Brinkmeyer, C.C. Hung, K.J. Schindler, M.J. Andres, & E.A. Weaver. 2007. Dioxin chronology and fluxes in sediments of the Houston Ship Channel, Texas: influences of non-steady state sediment transport and total organic carbon. *Environmental Science and Technology* 41: 5,291-5,298. DOI: 10.1021/es062917p

Yeager, K.M., P.H. Santschi, K.J. Schindler, M.J. Andres, & E.A. Weaver. 2006. The relative importance of terrestrial versus marine sediment sources to the Nueces-Corpus Christi Estuary, Texas: an isotopic approach. *Estuaries and Coasts* 29: 443-454.

Current Funding

2020–2022

\$290,499

EPA, Region 4 Wetland Program Development Grant, “Evaluating the ecological effects of alternative bulkhead designs in Mississippi waters”. co-PI w/ W. Bentley (PI) & K. Dillon. \$285,399 to Dillon and Andres.

2019–2023 \$551,246
USFWS CFDA Program, “Gulf Sturgeon Spawning Habitat Mapping in the Pearl and Pascagoula River Systems” PI: M.J. Andres w/co-PI M.S. Peterson.

2018–2021 \$458,696
NOAA, NMFS Protected Species Cooperative Conservation Program (Section 6 Program), “Estimating Juvenile Recruitment and Effective Number of Breeding Adults of Pascagoula River Gulf Sturgeon, *Acipenser oxyrinchus desotoi*: vital management and conservation information.” co-PI w/ M. Roberts (PI), M. Peterson, & B. Kreiser. \$324,254 to Andres, Peterson, Kreiser.

2016–2021 \$734,855
USACE-ERDC, CESU Gulf Coast Program, “Gulf Sturgeon Monitoring and Habitat Assessment in Response to Ship Island Restoration Efforts by the Mississippi Coastal Improvements Program.” co-PI w/ M. Peterson (PI), P. Grammer.

Teaching and Mentor Experience

Instructor

Marine Biology (Undergrad.)	2016–2018
Marine Ichthyology (Undergrad./Grad.)	2015, 2018–2019
Field and Lab Techniques in Marine Fisheries (Undergrad./Grad.)	2017

Undergraduate Mentees

Fressia Brechard, Belmont University
Brechard, F., M.J. Andres, & J. Niedzwiecki. 2019. Spatiotemporal analysis of parasite communities in anchovies of the Mississippi Sound. Belmont University Undergraduate Research Symposium. (*Poster*)
McKenzi Turpin, USM Honors Student
Turpin, M., M.J. Andres, & J. Walker. 2019. “Can habitat fragmentation predict the success or disruption of parasites living in and on *Fundulus jenkinsi*?” USM Undergraduate Symposium on research and Creative Activity. (*Poster*)
Ashton Reuter, Northwest Missouri State
Andrew Fuehring, USM, with S.C. Curran and R.M. Overstreet
Candis Ray, Auburn University, with R.M. Overstreet

Professional Presentations

Andres, M.J., K.D. Dillon, J.M. Higgs, A. Cohuo, A.K. Millender, N.J. Brown-Peterson, & J.S. Franks. 2019. Integrating parasites into the trophic ecology of the Swordfish, *Xiphias gladius*. 72nd Conference of the Gulf and Caribbean Fisheries Institute, Punta Cana, Dominican Republic. (*Poster*)

Higgs, J.M., M.J. Andres, K.L. Price, A.K. Millender, N.J. Brown-Peterson, & J.S. Franks. 2019. Diet observations from tournament landed Swordfish, *Xiphias gladius* in

the north central Gulf of Mexico. 72nd Conference of the Gulf and Caribbean Fisheries Institute, Punta Cana, Dominican Republic. (*Poster*)

Andres, M.J. 2019. There and back again: Fish and parasite tales. USM School of Biological, Environmental, and Earth Sciences. (*Invited Seminar*)

Peterson, M.S., & M.J. Andres. 2019. Tale of two distributaries: Examples of urbanization impacts on fishes and benthic resources. 103rd Joint Meetings of Ichthyologists and Herpetologists, Snowbird, Utah.

Andres, M.J. 2019. Gulf Sturgeon biology, ecology, and conservation. 2019 North American Native Fishes Association Convention, Jackson, MS (*Invited*).

Andres, M.J., M.S. Peterson, P.O. Grammer, & W.T. Slack. 2019. Applying a network based approach to understanding Gulf Sturgeon Pascagoula River estuary use. 45th Annual Meeting of the Mississippi Chapter American Fisheries Society, Jackson, MS.

Higgs, J.M., M.J. Andres, K.L. Price, & J.S. Franks. 2019. Diet observations of recreationally landed Swordfish, *Xiphias gladius*, in the north central Gulf of Mexico. 45th Annual Meeting of the Mississippi Chapter American Fisheries Society, Jackson, MS.

Andres, M.J., M.S. Peterson, & P.O. Grammer. 2017. Contemporary Gulf Sturgeon *Acipenser oxyrinchus desotoi* summer holding areas in the Pascagoula River, Mississippi. American Fisheries Society 147th Annual Meeting, Tampa Bay, FL.

Andres, M.J., M.S. Peterson, E.J. Anderson, & J.R. Hendon. 2017. Spatiotemporal variation in the parasite community of the Bay Anchovy across Mississippi Sound, USA. 101st Joint Meeting of Ichthyologists and Herpetologists, Austin, TX.

Andres, M.J., M.S. Peterson, E.J. Anderson, J.R. Hendon, & J. M. Higgs. 2016. Connecting anchovies to pelagic predators by their parasites. 69th Conference of the Gulf and Caribbean Fisheries Institute, Grand Cayman, Cayman Islands.

Andres, M.J., M.S. Peterson, W.T. Slack, K.D. Kimmel, P.O. Grammer, J.-M. Havrylkoff, B.R. Lewis, & P.E. Vick. 2016. Estimation of length-at-age, growth, and condition of Gulf Sturgeon, *Acipenser oxyrinchus desotoi*, from the Pearl and Pascagoula Rivers. 100th Joint Meeting of Ichthyologists and Herpetologists, New Orleans, LA.

Andres, M.J., J.W. Frey, T.M. Mann, & D. Mann. 2016. The salamanders that didn't make it across the road: Helminth fauna of two salamander species from Mississippi. 100th Joint Meeting of Ichthyologists and Herpetologists, New Orleans, LA. (*Poster*).

Brown-Peterson, N.J., R.T. Leaf, M.J. Andres, & J.T. Trushenski. 2015. Reproductive biology and lipid characteristics of Gulf Menhaden, *Brevoortia patronus*. 45th Annual Meeting of the American Fisheries Society, Portland, OR.

Leaf, R.T., N.J. Brown-Peterson, M.J. Andres, J.T. Trushenski, & A. Bergman. 2015. Temporal dynamics of lipid and fatty acid characteristics of Gulf Menhaden, *Brevoortia*

patronus, in the northern Gulf of Mexico. 68th Conference of the Gulf and Caribbean Fisheries Institute, Panama City, Panama.

Andres, M.J. 2014. Utilizing parasites as a tool to investigate ecological and evolutionary relationships in the marine environment. Mississippi Museum of Natural Science, Jackson, MS. (*Invited Seminar*).

Andres, M.J. & R.M. Overstreet. 2014. Phylogenetic affinities of two opecoelid (Trematoda) genera containing members with filamented eggs. 89th Meeting of the American Society of Parasitologists, New Orleans, LA.

Andres, M.J. & R.M. Overstreet. 2014. Molecular hypothesis of some Gulf of Mexico myctophids. 22nd Spring meeting of the Southern Division AFS, Charleston, SC.

Pulis, E.E., M.J. Andres, S.S. Curran, & R.M. Overstreet. 2013. Revision of the Haploporidae (Trematoda). National Science Foundation Science Center for Marine Fisheries (SCeMFIS), Poster Reception, GCRL Cedar Point Campus, Ocean Springs, MS. (*Invited poster*).

Andres, M.J. & R.M. Overstreet. 2013. Cetacean and fish anisakid nematodes suggest benthic-pelagic coupling by some mesopelagic fishes in the Gulf of Mexico. 88th Meeting of the American Society of Parasitologists, Québec City, Québec.

Curran, S.S., V.V. Tkach, M.J. Andres, E.E. Pulis, & T.J. Fayton. 2013. Molecular phylogeny of some intestinal fish flukes belonging in the Apocreadiidae (Digenea: Lepocreadiioidea). 2013 Meeting of the Society of Parasitologists, Bowling Green, KY.

Andres, M.J. & R.M. Overstreet. 2013. Molecular phylogeny of the trematode family Opecoelidae. 2013 Meeting of the Southeastern Society of Parasitologists, Bowling Green, KY.

Andres, M.J. & R.M. Overstreet. 2013. A molecular analysis of the interrelationships of the trematode family Opecoelidae (Digenea). 14th Annual Gulf Coast Graduate Student Symposium, Ocean Springs, MS.

Andres, M.J. & E.E. Pulis. 2012. Nematodes, trematodes and food webs in the Gulf of Mexico. National Marine Fisheries Service Pascagoula Laboratory seminar day, Pascagoula, MS. (*Invited*).

Andres, M.J. & R.M. Overstreet. 2012. Juvenile *Anisakis physeteris* from mesopelagic lanternfishes and shortfin squid in the Gulf of Mexico. 87th Meeting of the American Society of Parasitologists, Richmond, VA.

Andres, M.J. & R.M. Overstreet. 2012. Anisakid nematodes from the mid-water fish families Myctophidae and Sternoptychidae in the western Gulf of Mexico. 20th Spring meeting of the Southern Division AFS, Biloxi, MS.

Andres, M.J. & R.M. Overstreet. 2011. Juvenile ascaridoid nematodes and food webs in the Gulf of Mexico and Lesser Antilles. 21st Biennial Conference of the Coastal Estuarine Research Foundation, Daytona, FL.

Andres, M.J. 2008. Common parasites of the Striped Mullet *Mugil cephalus*. Texas Academy of Science- Galveston Chapter, Galveston, TX.

Andres, M.J. 2007. Comparison of ergasilid density in the Striped Mullet from the Galveston Bay System. TAMUG Student Research Symposium, Galveston, TX. (Poster).

Yeager, K.M., P.H. Santschi, H. Rifai, M. Suarez, R. Brinkmeyer, C.C. Hung, K.J. Schinlder, M.J. Andres, E.A. Weaver. 2007. Dioxin chronology and fluxes in sediments of the Houston Ship Channel, Texas: Influences of non-steady state sediment transport and total organic carbon. American Geophysical Union, 2007 Joint Assembly, Acapulco, Mexico.

Yeager, K.M., P.H. Santschi, K.J. Schinlder, M.J. Andres, E.A. Weaver. 2006. The relative importance of terrestrial versus marine sediment sources to the Nueces-Corpus Christi Estuary, Texas: An isotopic approach. American Geophysical Union, 2006 Joint Assembly, Baltimore, MD.

Pending Funding

2020–2023 \$268,356 (USM)

Open Ocean TIG Restoration Funds, “Juvenile Gulf Sturgeon – Gulf-wide Population dynamics and habitat use.” \$1,817,393 total. P.I. A. Kaeser with Co-PIs, M.J. Andres, M.S. Peterson. (approved, pending contracts).

2020–2023 \$454,716

Mississippi Department of Marine Resources, Tidelands program, “Determining nekton biomass, CPUE, and use at off-bottom culture site.” PI; with Co-PIs M. Peterson, & J. Hendon.

Past Research Awards and Grants

2014

Nick Baron Memorial Scholarship Award	\$2,088
Mississippi Chapter of the American Fisheries Society Travel Award	\$500

2013

American Society of Parasitologists Marc Dresden Travel Award	\$500
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2012

American Society of Parasitologists Marc Dresden Travel Award	\$350
Marine and Estuarine Graduate Student Association Student Award	\$200

Academic Recognition

2015

The University of Southern Mississippi Graduate Studies "Hall of Fame"

Synergistic Activities

2019

Student presentation judge for the 72nd Conference of the Gulf and Caribbean Fisheries Institute, Punta Cana, Dominican republic

Student presentation judge for AFS Mississippi Chapter meeting, Jackson, MS

2018

Organizing committee for the 19th Annual Gulf Sturgeon Workshop, Ocean Springs, MS

2017

Organized second social and was a student presentation judge for joint AFS Mississippi-Alabama Chapter meeting, Biloxi, MS

2016

Student presentation judge for the 69th Conference of the Gulf and Caribbean Fisheries Institute, Grand Cayman, Cayman Islands

2014

American Society of Parasitologists (ASP) Local Planning Committee for the 89th Annual Meeting of the ASP, New Orleans, LA

2013 to 2014

Vice President – GCRL Subunit of the Mississippi Chapter AFS

2012 to 2013

President – Marine and Estuarine Graduate Student Association (MEGSA)

Organized 16th Annual Gulf Coast Graduate Student Symposium, Ocean Springs, MS

2010 to 2012

Student Representative to Faculty - MEGSA

Organized 13th Annual Gulf Coast Graduate Student Symposium, April 2010, Ocean Springs, MS

Journal Reviewer for:

Journal of the Marine Biological Association UK (One Review since 2019)

Fishery Bulletin (One Review since 2019)

Parasitology Research (Two reviews since 2018)

Thalassas: An international Journal of Marine Sciences (One review since 2018)

Journal of Helminthology (Three reviews since 2017)

Gulf and Caribbean Research (Two reviews since 2016)

Acta Parasitologica (Three reviews since 2016)

Folia Parasitologica (One review since 2016)

Systematic Parasitology (Three reviews since 2015)

Comparative Parasitology (Four reviews since 2015)

Journal of Parasitology (Four reviews since 2014)

International Journal of Parasitology (Two reviews since 2014)

Zootaxa (Four reviews since 2013)

Public Lectures:

- 2019 “*Gulf Sturgeon Biology and Conservation*” Science on Tap at Hops & Growlers
2018 “*Science of Beer*” GCRL Science Café
“*Beer Brewing and Fermentation*” Guest Lecture for BSC488 Food Microbiology
2015 “*Worms and Beer*” Smarty Pants Thursday at The Greenhouse on Porter

Participation in NOAA Fisheries Research Cruises:

2012	Scientist	Small Pelagic Survey	<i>R/V Gordon Gunter</i>
2011	Scientist	Small Pelagic Survey	<i>R/V R/V Pisces</i>
2010	Scientist	Small Pelagic Survey	<i>R/V R/V Pisces</i>
2009	Scientist	Small Pelagic Survey	<i>R/V Gordon Gunter</i>
	Scientist	Caribbean Reef-fish Survey	<i>R/V Oregon II</i>
2008	Scientist	Small Pelagic Survey	<i>R/V Gordon Gunter</i>