

Janet Genz

Contact Information

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Professional Experience

Associate Professor of Biology University of West Georgia	July 2018-present
Assistant Professor Biology Department, University of West Georgia	Aug. 2013 - June 2018
Postdoctoral Fellow Department of Biological Sciences, University of Manitoba	May 2011 - May 2013

Education

University of Miami Rosenstiel School of Marine and Atmospheric Science (Miami, FL) Marine Biology and Fisheries	Ph.D. Dec. 2010
University of Miami (Coral Gables, FL) Major: Biology Minors: Marine science, Chemistry	B.S. Dec. 2005

Professional Development & Awards

• AFS Certified Fisheries Professional	2016 – present
• UWG ORSP Proposal Writer Fellow	Sept. 2022- present
• UWG Honors College Faculty Fellow	Aug. 2019 – May 2020

Academic Society Memberships

• American Fisheries Society (Georgia chapter) Physiology section; Fish culture section	2015 - present
• Council on Undergraduate Research	2014 - present
• Society for Experimental Biology	2007 – present
• Society for Integrative and Comparative Biology Division of Comparative Physiology & Biochemistry	2017 – 2019
• American Physiological Society Water & Electrolyte Homeostasis section	2014 - 2017
• Canadian Society of Zoologists	2011-2014

Professional Service

Editor

• <i>Aquatic Physiology</i> Review Editor	June 2022 - present
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- *Fishes*
Reviewer Board Member
Special Issue Guest Editor
“Integration of Nutrition and Physiology in Aquatic Animals”
May 2022 - present
July 2020 – July 2021

Reviewer (Journals)

- *American Journal of Physiology*
- *Animals*
- *Anatomia, Histologia, Embryologia*
- *Aquaculture*
- *Aquaculture Nutrition*
- *Aquaculture Research*
- *Bulletin of Marine Science*
- *Comparative Biochemistry and Physiology*
- *Conservation Physiology*
- *Ecology*
- *Fishes*
- *Fish Physiology and Biochemistry*
- *Freshwater Biology*
- *Frontiers in Nutrition*
- *Frontiers in Physiology*
- *International Journal of Fisheries & Aquaculture*
- *Journal of Agricultural Science & Technology*
- *Journal of Applied Ichthyology*
- *Journal of Comparative Physiology*
- *Journal of Experimental Biology*
- *Journal of Experimental Marine Biology & Ecology*
- *Journal of Fish Biology*
- *Journal of Fisheries and Livestock Production*
- *Journal of Marine Science & Engineering*
- *Journal of the Southeastern Associated Fish and Wildlife Agencies*
- *National Council on Undergraduate Research Proceedings*
- *PLoS ONE*
- *Science of the Total Environment*
- *Sustainability*
- *Transactions of the Illinois State Academy of Science*

Reviewer (Funding Agencies)

- *National Science Foundation*
- *United States - Israel Binational Agricultural Research & Development Fund (BARD)*
- *Western Regional Aquaculture Center Regional Research & Outreach*

Institutional Service

- Student Organization Advisor, West Georgia Women in Science
July 2017 - present
- University of West Georgia Faculty Senate
Faculty Development Committee
Graduate Programs Committee
University Relations Committee
July 2021 - present
Aug. 2017- May 2019
June 2015 – May 2017

- Honors College
 - Honors Council Advisory Committee 2016 - 2023
 - Undergraduate Research Liaison (Biology) 2021-2023
- College of Arts, Culture, and Scientific Inquiry
 - School of the Arts Advisory Committee Aug. 2023-present
- Biology Department, University of West Georgia
 - Seminar and Special Events Committee (Chair) Aug. 2020 - present
 - Finance Committee Aug. 2014-May 2017
 - Scholarships and Awards Committee (Chair) Aug. 2019 – April 2021
 - Space Allocation Committee (Chair) Feb. 2017 – May 2018
 - Aug. 2014-May 2017
- Ad-hoc Scholarship Committee (Chair) April 2021
- Department of Mathematics, Science, & Technology, University of West Georgia
- College of Education, University of West Georgia
 - Secondary Education-Science, Asst. Prof. Faculty Search Committee Feb. - April 2015

Community Service

- National Science Bowl
- Middle-school Regional – Moderator, Question Judge 2018-2022
 - Middle-school National – Question Judge 2021, 2022
 - High-school Regional & National - Question Judge 2021, 2022
- West Georgia Regional Science and Engineering Fair
- Scientific Review Committee (non-human vertebrates) 2016 – 2020
 - Judge 2017, 2018
- Presenter, Career Day May 2015
- Villa Rica Middle School
- Coordinator, APS Physiology Understanding (PhUn) Week Nov. 2014
- Oak Grove Montessori School

Students Mentored and Trained in Research

Graduate students (5 total)

- Rachael Hicks (M.S. Biology, 2019)
Thesis: *Response in growth, scute development, and whole-body ion composition of Acipenser fulvescens reared in water of differing chemistries*
- Ben McArthur (M.S. Biology, non-thesis, 2020)
- Afroza Naznin (M.S. Biology, 2021)
Thesis: *Proximate composition analysis of gastrointestinal contents of laboratory-reared and wild lake sturgeon (Acipenser fulvescens)*
- Taylor Burrell (M.S. Biology, non-thesis, 2022)
- Samuel Oluwaseun Ifedayo (M.S. Biology, non-thesis, 2022)

Undergraduate students (26 total)

**Post-graduation enrollment in an advanced degree program or employment in a degree-related position*

- Ashley Shelton (B.S. Biology, 2014)
- *Michael Arnette (B.S. Biology, 2015)

- Courtney Gilbert (B.S. Biology, 2016)
- Vanessa Thornton (B.S. Biology, 2016)
- *J.T. Sparks (B.S. Biology, 2016)
- Caryn West (B.S. Biology, 2016)
- *LeeAnn Frank (B.S. Biology, 2017)
- Olivia Howard (B.S. Nursing, 2018)
- Kyree Dailey
- *Sommer Starr (B.S. Biology, 2018)
- *Dominique Clemons (B.S. Biology, 2019)
- *Godfred Frimpong (B.S. Biology, 2019)
- Caitlin Forkin (B.S. Biology, 2020)
- Lindsey Monkiewicz (B.S. Biology, 2020)
Honors Thesis: *Assessment of Larval Sturgeon Energy Allocation Using Respirometry*
- *Taylor Burrell (B.S. Biology, 2020)
Honors Thesis: *The Effects of a Grain-Based Diet on Fecal Output, Digestion, and Lactation in Cattle and Possible Alternatives to Increase the Efficiency of These Processes*
- Chance Rankin (B.S. Biology, 2020)
- Adam Park (B.S. Biology, 2021)
- Trevor Hindman (B.S. Biology, 2021)
- Katlin Davenport (B.S. Biology, 2021)
- Christian Burgess (B.S. Biology, 2021)
- *Alane Rogers (B.S. Biology, 2022)
- Sasha Catalan (B.S. Biology, 2023)
- Chazz Edwards (B.S. Nursing – anticipated Spring 2023)
- Mariana Perez (B.S. Biology, anticipated Spring 2024)
- Gabrielle Rousseau (B.S. Biology – anticipated Spring 2024)
- Casen Hill (B.S. Biology – anticipated Spring 2025)

Courses Taught

Undergraduate

- BIOL1107, Principles of Biology I
72-seat introductory course, the first of a two-part sequence for nursing and non-biology science majors
- BIOL1107H, Principles of Biology I (Honors)
16-seat, discussion-based General Education course for STEM-major Honors College students.
- BIOL1107L, Principles of Biology I Lab
Lab corequisite for BIOL1107. Also offered as an Honors course.
- BIOL1110, Biological Diversity
96-seat introductory course for Biology majors, includes a lab component
- BIOL1110H, Biological Diversity (Honors)
16-seat, discussion-based introductory course for Biology majors in the Honors College.
- HONR2102, Sophomore Honors Colloquium - Inquiry
16-seat Honors College seminar course exploring the research process and initiating development of an Honors thesis hypothesis
- XIDS 2002, What Do You Know About the Honors College?
16-seat, first-year seminar course

- BIOL4242, Invertebrate Zoology
20-seat advanced course focused on systematics and functional anatomy of protists and invertebrate animals.
- BIOL4539, Comparative Physiology
30-seat advanced course focused on physiology of vertebrate and invertebrate animals, taught using jigsaw collaborative learning method
- BIOL4733, Animal Nutrition
24-seat advanced course for pre-vet students covering nutrition of domesticated vertebrate animals
- BIOL4981, Laboratory Instruction
15-seat training course for undergraduate teaching assistants instructing the laboratory portion of BIOL1110
- BIOL4985, Science Communication in Society
40-seat, interdisciplinary, co-taught course with Dr. Laura Miller (English, UWG). Influences on, and changes to, scientific communication from 1687-present.

Graduate

- BIOL5242, Invertebrate Zoology
Graduate-level course focused on systematics and functional anatomy of protists and invertebrate animals, taught concurrently with BIOL4242
- BIOL5539, Comparative Physiology
Graduate-level course focused on physiology of vertebrate and invertebrate animals, taught concurrently with BIOL4539
- BIOL6981, Introduction to Fisheries Careers
Graduate-level course focused on development of networking skills and production of application materials for new fisheries professionals
- BIOL6982, Thermobiology
Directed readings course comprised of a series of discussions of current research on the topic of temperature effects and impacts on biological systems, spanning from fundamental physics and chemistry principles to organismal effects and integrated ecosystems.
- BIOL6984, Graduate Biology Seminar
Cohort-building course focused on development of networking skills, engaging students in useful discussion about original research across biological sub-disciplines with peers and senior colleagues
- BIOL6985, Animal Nutrition
Graduate-level course covering nutrition of domesticated vertebrate animals, taught concurrently with BIOL4733

Grants

External Funding (\$28,600 Awarded of \$1.6 M sought):

- National Science Foundation (\$195,843, Not Awarded) 2023
MCA: Investigation of stress-related nutritional responses of fish in blackwater rivers
- College Board (\$26,600 Awarded) 2022
AP Biology Comparability Study (UWG study coordinator)
- Morris Animal Foundation (\$73,061, Not Awarded) 2020
Optimizing captive rearing to improve growth and post-stocking survival of juvenile lake sturgeon, a rare species of conservation concern

- Morris Animal Foundation (\$57,549, Not Awarded) 2018
Influences of diet and water chemistry on lake sturgeon digestive physiology
 - American Wildlife Conservation Foundation (\$2,000 Awarded) 2017
Energy demands in hatchery-raised lake sturgeon
 - National Science Foundation (\$618,313, Not Awarded) 2017
*CAREER: Nutritional and ionoregulatory effects on energy balance of *Acipenser fulvescens* during early life stages*
 - National Science Foundation (Unbudgeted Pre-proposal) 2017
*IOS Preliminary Proposal RUI: Nutritional and ionoregulatory effects on energy balance of *Acipenser fulvescens* during early life stages*
 - National Science Foundation (\$583,198, Not Awarded) 2016
CAREER: Physiological impacts of diet and water chemistry during early life in a fish species of conservation importance
 - American Physiological Society International Opportunity Program (\$7,491, Not Awarded) 2016
Workshop/Collaboration: Environmental influences on the initiation of exogenous feeding in white sturgeon
 - Cross Charitable Foundation (\$31,637, Not Awarded) 2016
Improving lake sturgeon reintroduction in Georgia through research on energy trade-offs
 - IDEA Impact Grant (\$12,112 Not Awarded) 2016
STEM to STEAM: Assessing long-term impacts in undergraduate science writing
 - National Science Foundation (Unbudgeted Pre-proposal) 2016
*IOS Preliminary Proposal RUI: Nutritional and reproductive impacts of caulerpenyne incorporation by *Elysia clarki**
 - Sea World Conservation Fund (\$22,390, Not Awarded) 2015
*Algal associations of feeding and breeding by *Elysia clarki*: improvement of captive care and rearing*
- Intramural Funding (\$38,795 Awarded):**
- Student Research Assistant Program (\$1,100), Univ. of West Georgia 2023
Training in aquaculture research and animal husbandry at the UWG-ARL
 - Student Research Assistant Program (\$1,372), Univ. of West Georgia 2021
Influences of water chemistry on intestinal absorption mechanisms in juvenile lake sturgeon
 - Faculty Research Grant (\$4,984), Univ. of West Georgia 2021
Determination of ionic composition and presence of heavy metals in hatcheries and natural water systems across Georgia
 - Student Research Assistant Program (\$1,200, funds returned due to COVID-19 pandemic preventing completion of project), Univ. of West Georgia 2020
Comparison of stocking handling procedures on stress in striped bass fingerlings
 - UWG STEM Education Enhancement Plan (\$4,487), Univ. of West Georgia 2018
Determination of factors influencing student success on computer-based assessments
 - Student Research Assistant Program (\$1,450), Univ. of West Georgia 2018
Influences of nutrition and feed composition on growth performance and intestinal absorption pathways in juvenile lake sturgeon

- COSM Faculty Research Grant (\$1,000), Univ. of West Georgia 2018
Influences of nutrition and feed composition on growth performance and intestinal absorption pathways in juvenile lake sturgeon
- SEEP Undergraduate Research & Mentoring Program 2017
(\$1,660), Univ. of West Georgia
Influences of water chemistry on development of ion regulation in lake sturgeon
- UWG STEM Education Improvement Plan (\$4,217), Univ. of West Georgia 2017
Impacts of perceived instructor effectiveness on student success in an introductory biology laboratory course
- COSM Faculty Research Grant (\$1,495), Univ. of West Georgia 2017
Physiological impacts of oxygen stress in lake sturgeon: Localization, characterization, and functional assessment of branchial neuroepithelial cells
- COSM Faculty Research Grant (\$1,200), Univ. of West Georgia 2016
Metabolism of lake sturgeon in early life
- COSM Faculty Research Grant (\$1,100), Univ. of West Georgia 2015
Effects of anemia and low temperature on metabolic recovery from hypoxia
- UWISE Undergraduate Research Grant (\$5,000), Univ. of West Georgia 2015
- Student Research Assistant Program (\$2,520), Univ. of West Georgia 2015
*Dietary and energetic requirements of a threatened fish species, *Acipenser fulvescens**
- Faculty Development Grant (\$1,650), Univ. of West Georgia 2015
*Dietary and energetic requirements of a threatened fish species, *Acipenser fulvescens**
- Student Research Assistant Program (\$1,800), Univ. of West Georgia 2014
*Sources and absorption mechanisms of functional chloroplasts in the kleptoplastic sea slug *Elysia clarki**
- President's Development Award (\$2,560), Univ. of West Georgia 2014
Incorporation of plastids in kleptoplastic sea slugs: sources and absorption mechanisms of functional chloroplasts

Publications

*Indicates undergraduate student

†Indicates graduate student

Peer Reviewed Publications:

- 1) Naznin, A. † and **Genz, J.** 2023. Proximate composition analysis of gastrointestinal contents of laboratory-reared and wild *Acipenser fulvescens*. *Aquaculture, Fish, and Fisheries* 3:184–195.
- 2) **Genz J.** and Hicks, R.N. † 2021. Response in growth, scute development, and whole-body ion composition of *Acipenser fulvescens* reared in water of differing chemistries. *Animals* 11(5):1419.
- 3) **Genz J.** and Anderson, W.G. 2020. Effects of calcium availability on growth of larval Lake Sturgeon. *Aquaculture Research* 51:497–505.
- 4) Deslauriers D., Svendsen J.C., **Genz J.**, Wall A.J.*, Baktoft H., Enders E.C., Anderson W.G. 2018. Environmental calcium and variation in yolk sac size influence swimming performance in larval lake sturgeon (*Acipenser fulvescens*). *Journal of Experimental Biology* 221:jeb164533.

- 5) Whittamore J.M., **Genz J.**, Grosell M., Wilson R.W. 2016. Measuring intestinal fluid transport in vitro: Gravimetric method versus non absorbable marker. *Comparative Biochemistry and Physiology, Part A* 194:27-36.
- 6) **Genz J.**, McDougall C.A.†, Burnett D.†, Arcinas L.*, Khetoo S.*, Anderson W.G. 2014. Induced spawning of wild-caught adult lake sturgeon: assessment of hormonal and stress responses, gamete quality, and survival. *Journal of Applied Ichthyology* 30:1565–1577.
- 7) Svendsen J.C., **Genz J.**, Anderson W.G., Stol J.A.†, Watkinson D.A., Enders E.C. 2014. Evidence of circadian rhythm, oxygen regulation capacity, metabolic repeatability and positive correlations between forced and spontaneous maximal metabolic rates in lake sturgeon *Acipenser fulvescens*. *PloS one* 9(4):e94693.
- 8) **Genz J.**, Shute L.*, Anderson W.G. 2014. Regulation of calcium transport in the early life stages of an ancient fish, *Acipenser fulvescens*. *Physiological and Biochemical Zoology* 87(2):299-309.
- 9) **Genz J.**, Carriere B.*, Anderson W.G. 2013. Mechanisms of calcium absorption by anterior and posterior segments of the intestinal tract of juvenile lake sturgeon. *Comparative Biochemistry and Physiology Part A: Molecular & Integrative Physiology* 166(2):293-301.
- 10) **Genz J.**, Jyde M.B.†, Svendsen J.C., Steffensen J.F., Ramløv H. 2013. Excess post-hypoxic oxygen consumption is independent from lactate accumulation in two cyprinid fishes. *Comparative Biochemistry and Physiology, Part A: Molecular & Integrative Physiology* 165(1):54-60.
- 11) Gilmour K.M., Perry S.F., Esbaugh A.J., **Genz J.**, Taylor J.R., Grosell M. 2011. Compensatory regulation of acid-base balance during salinity transfer in rainbow trout (*Oncorhynchus mykiss*). *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology* 182(2):259-274.
- 12) **Genz J.** and Grosell M. 2011. *Fundulus heteroclitus* acutely transferred from seawater to high salinity require few adjustments to intestinal transport associated with osmoregulation. *Comparative Biochemistry and Physiology, Part A: Molecular & Integrative Physiology* 160(2):156-165.
- 13) **Genz J.**, Esbaugh A.J., Grosell M. 2011. Intestinal transport following transfer to increased salinity in an anadromous fish (*Oncorhynchus mykiss*). *Comparative Biochemistry and Physiology, Part A: Molecular & Integrative Physiology* 159:150-158.
- 14) **Genz J.**, McDonald M.D., Grosell M. 2011. Concentration of MgSO₄ in the intestinal lumen of *Opsanus beta* limits tolerance to hypersalinity. *American Journal of Physiology: Regulatory, Integrative and Comparative Physiology* 300:R895-909.
- 15) Perry S.F., Braun M.H., **Genz J.**, Vulesevic B., Taylor J.R., Grosell M., Gilmour K.M. 2010. Acid-base regulation in the plainfin midshipman (*Porichthys notatus*), an aglomerular marine teleost. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology* 180:1213-1225.
- 16) Grosell M., **Genz J.**, Taylor J.R., Perry S., Gilmour K.M. 2009. The involvement of H⁺-ATPase and carbonic anhydrase in intestinal HCO₃⁻ secretion in seawater-acclimated rainbow trout. *Journal of Experimental Biology* 212:1940-1948.

- 17) **Genz J.**, Taylor J.R., Grosell M. 2008. Effects of salinity on intestinal bicarbonate secretion and compensatory regulation of acid-base balance in *Opsanus beta*. *Journal of Experimental Biology* 211:2327-2335.
- 18) Grosell M. and **Genz J.** 2006. Ouabain sensitive bicarbonate secretion and acidic fluid absorption by the marine teleost fish intestine play a role in osmoregulation. *American Journal of Physiology: Regulatory, Integrative and Comparative Physiology* 291(4):1145-56.

Other Publications:

- 1) **Genz J.** 2010. Physiological Effects of High Salinity in Teleost Fish. *Open Access Dissertations*. Paper 936.

Invited Presentations:

- 1) **Genz, J.** *Are We Really What We Eat?* The Other Night School, UWG School of the Arts. Newnan, GA. Nov. 15, 2022.
- 2) Rogers, A.*, **Genz, J.** *Water Quality Analysis in Georgia Fish Hatcheries*. Posters at the Georgia State Capitol. Atlanta, GA. March 30, 2022. [poster]
- 3) **Genz, J.** *Experiential Learning in Conservation Research*. Berry College. Rome, GA. Nov. 22, 2021.
- 4) **Genz, J.** *The Other RAS: Research Awareness & Social Impact*. Aquaculture Research Institute. Hagerman, ID. Nov. 16, 2021.
- 5) **Genz, J.** *Ecophysiology Research as a Tool for Improving Aquaculture*. University of Idaho. Moscow, ID. Nov. 15, 2021
- 6) **Genz, J.** *5 Principles Learned the Hard Way*. Aquaculture America, AFS Fish Culture Symposium: Getting it Right While Managing Through COVID. San Antonio, TX. Aug. 12, 2021.
- 7) Campbell, M., Gantner, M., **Genz, J.**, and Wood, T. *A Discussion of Online Teaching Strategies and Technologies*. iIP. Carrollton, GA. May 19, 2021. [panelist, online]
- 8) Genz E. and **Genz J.** *Sisters in STEM*. Women's STEM Careers – Southern Colorado Group. Colorado Springs, CO (online). Oct. 15, 2020.
- 9) **Genz J.** *Environmental Factors Influencing Growth of Lake Sturgeon*. AFS UGA Student Chapter. Athens, GA. Oct. 18, 2018.
- 10) Britton S., Green K. *Being a Productive Researcher While Still a Valued Educator*. iIP. Carrollton, GA. May 15, 2018. [panelist]
- 11) **Genz J.** *Survival Secrets of an Ancient Fish*. Wolf Science Café. Carrollton, GA. July 24, 2017.
- 12) **Genz J.** *Interdisciplinarity in Science*. Freshman Honors Seminar (XIDS2002: What Do You Know About The Honors College). Carrollton, GA. Oct. 3, 2016.
- 13) **Genz J.** *Assessing Student Responses to the Flipped Classroom*. COSM Dean's Teaching and Learning Seminar Series. Carrollton, GA. Feb. 19, 2016.
- 14) **Genz J.** and Edelman A. *Teaching Methods for Collaborative Learning*. University of West Georgia Faculty Workshop Series. Carrollton, GA. Oct. 6, 2015
- 15) **Genz J.** *Solar-powered sea slugs!* University of West Georgia Celebration of Faculty Scholarship. Carrollton, GA. April 11, 2014.
- 16) **Genz J.** *Short-term effect of Ovaprim on estrogen and androgen levels in adult lake*

sturgeon. Hudson Bay Drainage Lake Sturgeon Working Group Meeting. Winnipeg, MB, Canada. Jan. 10, 2011.

Conference Contributions:

- 1) **Genz, J.**, Hicks, R.N.†, Naznin, A.† *Energy assimilation and allocation by young-of-year lake sturgeon*. SEB. Montpellier, France. July 5, 2022.
- 2) **Genz, J.**, Hicks, R.N.†, Hindman, T.*, Edwards, C.* *Differences in water chemistry between hatchery and river conditions effect nutrient absorption by larval and young-of-year Lake Sturgeon*. ICBF. Montpellier, France. June 29, 2022.
- 3) **Genz, J.**, Burgess, C.*, Harper, C. *Comparisons of stocking protocols on striped bass handling stress*. GA-AFS. Jekyll Island, GA. Feb. 3, 2022.
- 4) Rogers, A.*, **Genz, J.** *Water Quality Analysis in Georgia Fish Hatcheries*. GA-AFS. Jekyll Island, GA. Feb. 2, 2022. [poster]
- 5) **Genz, J.**, Hindman, T.*, Edwards, C.* *Differences in water chemistry between hatchery and riverine conditions impact nutrient absorption by juvenile Lake Sturgeon*. Upper Coosa Conservation Summit. Online. Oct. 20, 2021.
- 6) Rogers, A.*, **Genz, J.** *Water Quality Analysis in Georgia Fish Hatcheries*. Georgia Undergraduate Research Conference. Online. Nov. 5, 2021. [poster]
- 7) **Genz, J.**, Hindman, T.*, Edwards, C.* *Differences in water chemistry between hatchery and riverine conditions impact nutrient absorption by juvenile Lake Sturgeon*. Aquaculture America. San Antonio, TX. Aug. 12, 2021.
- 8) Naznin A.†, **Genz J.** *Proximate composition analysis of gastrointestinal contents of laboratory-reared and wild lake sturgeon*. GA-AFS. Online. Jan. 19, 2021.
- 9) Forkin, C.*, **Genz J.** *Comparison of ion transport expression in Lake Sturgeon exposed to differing water chemistries*. Georgia Undergraduate Research Conference. Nov. 2, 2019. [poster]
- 10) **Genz J.** *Physiological comparisons between juvenile lake sturgeon (*Acipenser fulvescens*) reared in captivity vs. simulated natural recruitment*. Upper Coosa Conservation Summit. Kennesaw, GA. Oct. 25, 2019.
- 11) **Genz J.** *Environmental impacts on energy usage by hatchery-reared lake sturgeon*. Georgia Chapter of The Wildlife Society. Carrollton, GA. Sept. 13, 2019.
- 12) **Genz J.** *Interactions between student preferences and test-mode effect*. The Teaching Professor Conference. New Orleans, LA. June 8, 2019.
- 13) Hindman T.*, **Genz J.** *Influences of water chemistry on juvenile Lake Sturgeon*. UWG Scholar's Day. Carrollton, GA. April 2, 2019. [poster]
- 14) Hicks, R.†, **Genz J.** *Dorsal scute development in *Acipenser fulvescens* in different environmental calcium concentrations*. GAS. Gainesville, GA. March 15, 2019.
- 15) Hicks, R.†, **Genz J.** *Dorsal scute development in *Acipenser fulvescens* in different environmental calcium concentrations*. TN-AFS. Chattanooga, TN. Feb. 26, 2019.
- 16) Hicks, R.†, **Genz J.** *Dorsal scute development in *Acipenser fulvescens* in different environmental calcium concentrations*. GA-AFS. Cordele, GA. Feb. 5, 2019.
- 17) **Genz J.** *Low temperature reduces physiological impacts of accumulated oxygen debt for a hypoxia-tolerant cyprinid fish*. SEB. Florence, Italy. July 5, 2018.
- 18) **Genz J.** *Do You Like Your TA? Student perceptions of instructor ability and authority influence their academic performance*. SEB. Florence, Italy. July 5, 2018.

- 19) **Genz J.** *Student perceptions of instructor ability and authority influence academic performance.* The Teaching Professor Conference. Atlanta, GA. June 1, 2018. [poster]
- 20) **Genz J.** *Storytime! That Time My Professor Almost Died - & I Enjoyed It.* liP. Carrollton, GA. May 15, 2018.
- 21) Gordon S., Gaquere A., Carmack C., Sterling N., **Genz J.**, Garner Y., Duckett E. *Pedagogical Innovations in STEM Education.* liP. Carrollton, GA. May 15, 2018. [panel]
- 22) **Genz J.** *Interaction of Temperature and Hypoxia on the Metabolism of Golden Shiners.* SD-AFS. San Juan, PR. March 10, 2018.
- 23) **Genz J.**, Gilbert C.*, Svendsen J.C. *Combined Effects of Temperature and Hypoxia on Anaerobic Metabolism and Development of Oxygen Debt in a Common Cyprinid.* SICB. San Francisco, CA. Jan. 4, 2018.
- 24) **Genz J.**, West C.*, Anderson W.G. *Diet Assimilation and Energy Distribution in Larval Lake Sturgeon.* AFS. Tampa, FL. Aug. 21, 2017.
- 25) Ferreira P.G.†, Flavio, H.†, Hacking, H.*, **Genz J.**, Wilson, J.M., Behrens, J., Svendsen J.C. *Is the osmorepiratory compromise limiting invasive species?* SEB. Gothenburg, Sweden. 2017.
- 26) **Genz J.** *Online Tools to Facilitate Student Collaboration: Reducing Resistance to Learning in Groups.* liP. Carrollton, GA. May 16, 2017.
- 27) **Genz J.** and West C.* *Rearing Temperature Produces Both Short-term and Long-term Energetic Impacts in Lake Sturgeon (*Acipenser fulvescens*).* GA-AFS. Statesboro, GA, Jan. 24, 2017.
- 28) **Genz J.** *Metabolic Plasticity of Juvenile Lake Sturgeon Associated with Rearing Temperature.* SICB. New Orleans, LA, Jan. 5, 2017. (poster)
- 29) **Genz J.** *Influence of Temperature on Metabolic Rate of Juvenile Lake Sturgeon.* ICBF. San Marcos, TX, June 13, 2016.
- 30) West C.* and **Genz J.** *Temperature Effects on Developmental Growth and Nutritional Status of Juvenile Lake Sturgeon.* ICBF. San Marcos, TX, June 13, 2016.
- 31) Frank, L.*, Arnette M., **Genz J.** *Nutrition Acquired from Kleptoplasty in *Elysia clarki*.* NCUR. Asheville, NC, April 8, 2016.
- 32) **Genz, J.** *Calcium regulation during early ontogeny in *Acipenser fulvescens*.* GA-AL AFS. Columbus, GA, Feb. 9, 2016.
- 33) **Genz J.** *Peer Instruction Using the Jigsaw Method: More Work Than It's Worth?* liP. Carrollton, GA, April 28, 2015.
- 34) **Genz J.** and Edelman, A. *Teaching Methods for Collaborative Learning.* liP. Carrollton, GA, April 28, 2015. (workshop)
- 35) Arnette M.*, Shelton A.*, **Genz J.** *Investigation of algal feeding preferences in the solar-powered sea slug, *Elysia clarki*.* APS. San Diego, CA, Oct. 6, 2014. (poster)
- 36) **Genz J.** and Anderson W.G. *Effects of calcium availability on growth and survival of *Acipenser fulvescens* in early life stages.* APS. San Diego, CA, Oct. 7, 2014.
- 37) **Genz J.**, Shute L.*, Anderson W.G. *Growth and the role of MRCs during calcium stress in larval lake sturgeon.* CSZ. Guelph, ON, May 15, 2013.
- 38) Brandt C.*, Arcinas L.*, **Genz J.**, Anderson, W.G. *Effects of chlorpyrifos on in vitro sex steroid production in lake sturgeon, *Acipenser fulvescens*.* CSZ. Guelph, ON, May 15, 2013.
- 39) **Genz J.**, Khetoo S.*, Arcinas L.*, Anderson, W.G. *Larval lake sturgeon inherit survivorship from maternal stores.* CSZ. Guelph, ON, May 15, 2013.

- 40) Carriere B.*, **Genz J.**, Anderson W.G. *Calcium handling in the intestinal tract of a cartilaginous fish, the lake sturgeon*. ICBF. Madison, WI, July 15-19, 2012.
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