

Jimena Golcher-Benavides

Program in Ecology

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EDUCATION

2015-present	PhD Candidate. Program in Ecology, University of Wyoming, Laramie, WY. Advisor: Dr. Catherine E. Wagner.
2012-2015	MSc. in Biological Sciences at University of Konstanz, Konstanz, Germany. Advisors: Dr. Axel Meyer & Dr. Mark van Kleunen.
2006-2011	Bachelor of Biological Sciences, emphasis on Tropical Biology, National University (UNA), Heredia, Costa Rica.

ACADEMIC EXPERIENCE

2015-present	Graduate Research PhD Dissertation Thesis “Eco-evolutionary drivers of diversity in East African cichlid fishes” Committee members: Dr. Catherine E. Wagner (PhD Advisor), Dr. Peter B. McIntyre, Dr. Robert O. Hall, Dr. Amy C. Krist, Dr. Carlos Martínez del Río & Dr. Craig W. Benkman. <i>Field work, data and specimen collection in four expeditions to Lake Tanganyika, Tanzania 2016-2019.</i>
2019-2020	Graduate Research “Monitoring Critical Habitat for Fish Fauna” The Nature Conservancy’s Tuungane Project advised by Craig Leisher, Director of Monitoring and Evaluations at The Nature Conservancy and Dr. Peter B. McIntyre, Cornell U.
2012-2015	Graduate Research MSc Thesis “The effects of predation on the stability of a color polymorphism in Midas cichlids from Nicaraguan crater lakes” Universität Konstanz, Germany. Dr. Axel Meyer & Dr. Mark van Kleunen. <i>Field work providing aquatic biodiversity survey data for the water authority in Managua, Nicaragua.</i>
2013	Graduate Research Universität Konstanz, Germany. Dr. Helen Gunter.
2012	Undergraduate Internship Veterinary School (TiHo) Hannover, Germany.
2011	Undergraduate Internship Smithsonian Tropical Research Institute, Panama.
2009-2011	Undergraduate Research Organization for Tropical Studies and Environmental impact assessment with Universidad Nacional (UNA).

TEACHING ASSISTANT (TA) & GUEST LECTURER EXPERIENCE

2021 – Spring	Guest Lecturer Lees-McRae College General Zoology Dr. Porter “Fishes”.
2021 – Spring	Guest Lecturer Oklahoma State University Introduction to Natural History Dr. Duchardt “Foraging strategies and dietary flexibility in cichlids”.
2020 – Fall	Guest Lecturer Adams College Gen. Biology Dr. Gibson-Reinemer “Cichlid adaptive radiations: natural experiments in evolution.”

2020 – Spring	TA & Guest Lecturer University of Wyoming Gen. Ecology LIFE3400 Dr. Barber- 68 s. “Introduction to evolutionary ecology I & II” and “Biodiversity.”
2019 – Fall	TA & Tutorial University of Wyoming Marine Biology Dr. North- 20 s. “Measuring biodiversity using R programming language.”
2018 – Spring	TA & Guest Lecturer University of Wyoming Genetics Dr. Weinig- 50 s. Population genetics.” “Ecological speciation.” in charge of two discussion groups.
2016 & 2017	TA & Activity Coordinator University of Wyoming Evolution Dr. Wagner- 40 & 43 s. “Evolutionary research in zoological and geological museums.”
2015 – Fall	TA & Lab Instructor University of Wyoming Biology Dr. J. Willford and Dr. North- 41 s. in charge of two General Biology laboratory sections.
2013 – 2014	TA University of Konstanz Zoology Dr. Kleineidam & Dr. Woltering (2014) Dr. Gunter (2013) in charge of two discussion groups.

MENTORING

2019 – Present	Shadow T. McKim UW Undergraduate research & manuscript preparation.
2016 – 2020	Msafiri George (Tanzania) Undergraduate academic writing.
2020 – Summer	Carlos Muñoz (Colombia) Academic writing.
2020 – Spring	Nathan T. Barrus UW Undergraduate research.
2018 – Spring	Thyme L. Cook & Reid Olson UW Undergraduate research experience.
2017 – Summer	Brittany Nordberg UW Undergraduate research experience.
2013 – Fall	Gabriel Brenes (Nicaragua) ENACAL Water Enterprise Staff Assistant.
2011 – Fall	Francesca Protti & Miguel Chaves (CR) Undergraduate academic writing.

WORKSHOP ORGANIZER & INSTRUCTOR EXPERIENCE

2020 – Spring	Virtual Intro to Digital Illustration Program in Ecology – <i>Organized and taught.</i>
2019 – Summer	Statistical Analyses and Advanced R Programming for Fisheries Tanzanian Fisheries at Research Institute. <i>Organized and co-taught with Jessica Rick, with help of Masumbuko Semba and Jesse Alston in Dar Es Salaam, Tanzania.</i>
2018 – Summer	Intro to R Computer Programming Tanzanian Fisheries at Research Institute. <i>Organized and co-taught with J. Rick, with help of M. Semba in Kigoma, Tanzania.</i>
2016 – Spring	Career panel for graduate students Program in Ecology – <i>organized with Dr. Lisa Barret at University of Wyoming Laramie, WY.</i>
2015 – Summer	Intro to Scientific Illustration using vector art Program in Ecology – <i>organized and taught at University of Wyoming Laramie, WY.</i>

AWARDS AND FELLOWSHIPS

		Total
		\$50,462.36
2021	Workshop Participation Grant, UW.....	\$400.00
2020	Biodiversity Institute 2020 Research Enhancement Grant, UW.....	\$28,018.00
2020	Frederic E. Clements Award, UW.....	\$1,000.00
2019	Women in Conservation Biology, Ecology and Education Fellowship	\$1,000.00
2018	Department of Botany Student Awards.....	\$300.00

2018	Dean's Graduate Scholars Award, Arts & Sciences UW	\$2,500.00
2018	Center for Global Studies Harris Research Endowment, UW.....	\$2,500.00
2018	Departmental awards, Department of Botany UW	\$300.00
2018	Wilhelm and Ragnhild Solheim Memorial Scholarship, UW	\$1000.00
2017	Rosemary Grant Award, Society for the Study of Evolution	\$2,500.00
2017	Bodega Applied Phylogenetics Workshop, Department of Botany UW....	\$1,000.00
2017	Aven Nelson Award, Department of Botany UW	\$2,000.00
2017	Own-it Award, Celebrating UW Women in STEM Graduate student	
2014	Graduate tuition- Tropical Ecology – Org. Tropical Studies (OTS)	
2013	CONICIT-Costa Rican Government Science Incentive.....	\$7,944.36
2012	German Academic Exchange Service (DAAD) Tuition & Stipendium	
2010	Tuition & Research Experience for Costa Rican Students, OTS/CRUSA	

PUBLICATIONS

- Golcher-Benavides, J.**, S. M. McKim*, and C. E. Wagner. 2021. Aggression bias in *Tropheus brichardi* population "Kalemie". Manuscript in prep. for journal: *Animal Behaviour** Undergraduate student co-author.
- Golcher-Benavides, J.**, P.B. McIntyre, C. D. Brock and C. E. Wagner. 2021. Depth as an axis of community organization in Lake Tanganyikan cichlids, East Africa. Manuscript in prep. for journal: *Ecological Monographs*
- Golcher-Benavides, J.**, P.B. McIntyre, E.G.M. Mandeville and C. E. Wagner. 2021. Ecology as driver of genetic differentiation in Lake Tanganyikan cichlids. Manuscript in prep. for journal: *Evolution*
- Golcher-Benavides, J.** and C. E. Wagner. 2019. Playing out Liem's Paradox: opportunistic piscivory in the Lake Tanganyikan cichlid fishes. *The American Naturalist*.
- Torres-Dowdall, J.*, **Golcher-Benavides, J.***, Machado-Schiaffino, G. and A. Meyer. 2017. The role of rare morph advantage and conspicuousness in the stable gold-dark colour polymorphism of a crater lake Midas cichlid fish. *J Anim Ecol.* 2017; 86:1044–1053, DOI: 10.1111/1365-2656.12693. *Co-first authorship.
- Golcher-Benavides, J.** and M. Protti Quesada. 2011. Fish Species Richness in Lowland Streams with a Geothermal Input Phenomenon, Sarapiquí de Heredia. Open Access ISRN Ecology. *ISRN Ecology*. Volume 2011: 695492, DOI:10.5402/2011/695492.

SCIENTIFIC TALKS & POSTERS

- Golcher-Benavides, J.**, Leisher, C. 2021. The Nature Conservancy Tuungane Global and Africa Fish Conservation teams Meeting. "Fish Survey comparison" with Dr. Walter Salzburger and Dr. Peter B. McIntyre. (30 min talk)
- Golcher-Benavides, J.**, Mandeville, E.G., McIntyre, P.B.M and C.E. Wagner. 2021 Virtual Asilomar American Society for Naturalists Meeting. "Predictors of population genetic differentiation in Lake Tanganyikan cichlids". (15 min [talk](#) starts at min 40)
- Golcher-Benavides, J.** and C.E. Wagner. 2019. Invited Speaker in Research Seminar Series. Center for Limnology and Marine Biology, Universidad de Costa Rica (UCR). "Eco-evolutionary drivers of cichlid fish diversity." (50 min talk)
- Golcher-Benavides, J.** and C.E. Wagner. 2019. Talk at Departmental Botany/Ecology Seminar Series University of Wyoming "Eco-evolutionary drivers of cichlid fish diversity." (10 min talk)
- Golcher-Benavides, J.**, P.B. McIntyre, C. Brock and C.E. Wagner. 2019. Poster presentation at Wyoming Goes Global, University of Wyoming. "Is cichlid fish community diversity energy-driven in Lake Tanganyika."

- Golcher-Benavides, J. and C.E. Wagner.** 2018. PhD Proposal Talk in Program in Ecology University of Wyoming "Diversity and coexistence in East African Cichlids." (50 min talk)
- Golcher-Benavides, J., P.B. McIntyre, C. Brock and C.E. Wagner.** 2018. Poster presentation Student Symposium Program in Ecology, University of Wyoming. "Examining patterns of community diversity within an adaptive radiation."
- Golcher-Benavides, J., P.B. McIntyre, C. Brock and C.E. Wagner.** 2017. Talk at the Guild of Rocky Mountain Ecologists and Evolutionary Biologists Meeting at UC Mountain Research Station, Colorado "Resource availability as driver of community assembly in Lake Tanganyika." (15 min talk)
- Golcher-Benavides, J., Torres-Dowdall, Machado-Schiaffino, G. and A. Meyer.** 2015. Talk at CIMAR and UNA Costa Rica (UNA) "Midas cichlids viewed from the predators perspective." (50 min talk)
- Golcher-Benavides, J., Torres-Dowdall, Machado-Schiaffino, G. and A. Meyer.** 2015. Poster at National Biology Meeting EAWAG Zürich, Switzerland "Midas cichlids viewed from the predators perspective".
- Golcher-Benavides, J., Torres-Dowdall, Machado-Schiaffino, G. and A. Meyer.** 2014. Poster at Evolution Meeting 2014 North Carolina "Midas cichlids viewed from the predators perspective."
- Golcher-Benavides, J. and Protti-Quesada.** 2011. Talk at the National Biology Meeting, in San José, Costa Rica. "Fish species richness in Caribbean lowland streams." (15 min talk)

PEER REVIEW SERVICE, MEMBERSHIPS & OUTREACH

Peer review | Peer review for International Journal of Tropical Biology and Conservation (Rev. Biol. Trop. 2016-2021), Functional Ecology (2017), Journal of Great Lakes Research (2019), Hydrobiologia (2020).

Memberships | American Society of Naturalists, Society for the Study of Evolution, Society for Freshwater Science (2021)

Outreach

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| 2021 | "Freshwater fish conservation" guest lecture at European High School, CR. |
| 2020 | "Aquatic biodiversity and cichlid fishes" guest lecture at European High School, CR. |
| 2019 | Tutor at Program in Ecology Odyssey for incoming students, Wyoming 2019. |
| 2019 | "Lake Tanganyika Underwater" Speaker at Rocky Mountain Cichlid Association in Colorado, 2017 and 2019. |
| 2019 | "Cichlid fish diversity" public talk at Laramie Audubon Society, Wyoming. |
| 2019 | "Science Café" public talks at Sublette and Albany County Public Libraries in Wyoming. |
| 2019 | Panelist at Shepard Symposium on Social Justice-Panel on Science-Policy Interface. |
| 2018 & 2019 | "Fish evolution in East Africa" exhibition for Fossil Fish Day at UW Geological Museum. |
| 2016 | "Conducting research in Lake Tanganyika" public talk at the American Fisheries Society -University of Wyoming Chapter. |
| 2021 | Publication of 4 th Grade Educational Material- Module 1: Fish adaptations to thrive underwater: http://freshwater.wyomingbiodiversity.org |
| 2021 | Organizer at "I Simposio #CienciaTica 2021" Friday, 15 January 2021. |
| 2020 | Organizer and mentor at PiE Mentor Mentee Program. |
| 2020 | Contributor for "Guidelines and advice for incoming UW graduate students". |
| 2019 | Organizer at Fossil Fish Day at the UW Geological Museum. |
| 2018 | Organizer at Symposium, VII th Student Symposium Program in Ecology. |
| 2018 | Organizer at Fossil Fish Day at the UW Geological Museum 2018 and 2019. |

2017 Organizer at Symposium, VIth Student Symposium Program in Ecology.
 2017 Judge for the Wyoming State Science Fair 2017.
 2017 Master of Ceremonies for UW International Students Office events.
 2016 Organizer at student talks in Departmental Seminar Series.
 2016 University of Wyoming – Mentor at Latina Youth Conference.
 2016 University of Wyoming – Organizer at Women in Math, Science and Engineering.
 2016 Judge for the Wyoming State Science Fair 2016.
 2015 Guide for High School Students Irazú Volcano National Park.

RECENT WORKSHOP PARTICIPATION

2021 Virtual Machine Learning using Python Workshop WEST 11-15 January 2021
 2021 Virtual OTS Scientific Illustration 27 January-12 February 2021
 2017 National Science Foundation Grantsmanship Workshop 14 October 2017
 2017 Bodega Applied Phylogenetics Workshop Application 11-18 March 2017
 2017 Occupancy Workshop 20-24 March 2017

INTERESTS & LANGUAGES

Interests | Ecology | Fisheries Management | SCUBA CMAS* PADI Advanced Open Water
 100+ hours of experience in scientific diving | Fishing | Birdwatching | Data Visualization | Art
 | iNaturalist
Languages | Spanish, English & French (fluent) | German (intermediate) | Portuguese & Swahili
 (basic)