

Curriculum vitae

Name: Arely Ramírez García

Age: 29 years old

Date of birth: April 19, 1992

Current occupation: Ph.D. candidate in the Institutional Doctoral Program in Biological Sciences at the Universidad Michoacana de San Nicolás de Hidalgo, Morelia, Michoacán, México.

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Webpages

<https://www.researchgate.net/profile/Arely-Ramirez-Garcia>

<https://scholar.google.com.mx/citations?user=JHgQTcAAAAAJ&hl=en>

<https://orcid.org/0000-0002-1818-638X>

<https://bioumich.wixsite.com/proyectozacapu>

1. Education

- High school, in the Industrial Technological Center # 94 Pátzcuaro, Michoacán. **Dates 2007-2010**. General average obtained 9.6.
- Bachelor's Degree in Biology, in the Universidad Michoacana de San Nicolás de Hidalgo. Michoacán, Mexico. **Dates 2010-2015**. General average obtained 8.9.
- Advanced English Course, in the Department of Languages of the Universidad Michoacana de San Nicolás de Hidalgo. Michoacán, Mexico **Dates 2011-2016**.
- Master in Biological Sciences, approved with honorable mention, in the Universidad Michoacana de San Nicolás de Hidalgo. Michoacán, Mexico. **Dates 2016-2018**. General average obtained 9.6.
- Ph.D. Candidate to Doctor of Science. Passed the candidacy examination of the Institutional Program of Doctorate in Biological Sciences in Conservation

and Management of Natural Resources, of the Michoacan University of San Nicolás de Hidalgo. Michoacán, Mexico. **Date October 2019.**

- International certification of open water diving. Open Water Diver, PADI. **May 2021.**
- Currently a fourth-year candidate Ph.D. student of the Institutional Doctoral Program in Biological Sciences in Conservation and Management of Natural Resources, at the Universidad Michoacana de San Nicolás de Hidalgo. Start and end date: 2018 to 2022. Overall average obtained so far 9.9.

2. Stay Research academic:

- National research stays at the National Polytechnic Institute CICIMAR-IPN, La Paz, Baja California, Mexico. **Date 2016.**
- International Research Stay at Southeastern Louisiana University, Hammond, Louisiana, USA. **Date 2017.**
- National research stays at the National Polytechnic Institute CICIMAR-IPN, La Paz, Baja California, Mexico. **Date 2018.**
- National research stays at the Autonomous University of the State of Morelos. **Date 2019.**
- Currently, research stays at Middle East Technical University, Ankara Turkey. Start June 2021, ends June 2022.

3. Publications

- **Ramírez-García A**, Ramírez-Herrejón, JP, Medina-Nava M, Hernández-Morales R, Domínguez- Domínguez O. (2017). Reproductive biology of the invasive species *Pseudoxiphophorus bimaculatus* and *Poecilia sphenops* in the Teuchitlán River, México. *J Appl Ichthyol.* 00:1–10. <https://doi.org/10.1111/jai.13543>
- **Ramírez-García A.** and Piller, K. (2018). Aspects of the Reproductive Biology and Growth of the Mississippi Silvery Minnow, *Hybognathus nuchalis* (Agassiz, 1855) (Teleostei: Cyprinidae) from the Pearl River, Louisiana. Southeastern Fishes Council Proceedings: No. 58
- Lyons, J., Piller, K. R., Artigas-Azas, J. M., Dominguez-Dominguez, O., Gesundheit, P., Köck, M., Medina-Nava, M., Mercado-Silva, N., **Ramírez-García, A.**, Findley, K. M. (2019). Distribution and current conservation status

of the mexican goodeidae (actinopterygii, cyprinodontiformes). Zookeys, 115-158. <https://doi.org/10.3897/zookeys.885.38152>

- **Ramírez-García A**, Piller, K, Ramírez-Herrejón, JP, Medina-Nava M, Hernández-Morales R, Domínguez- Domínguez O. (2020). Reproductive biology of three native livebearers fish species in Teuchitlán River, México. Acta Ichthyologica et Piscatoria. 50(1); 1-12. <https://doi.org/10.3750/AIEP/02513>
- Carbajal-Becerra O, Olvera-Rodríguez K, Mariscal-de-Souza G, Durán-Rodríguez O, **Ramírez-García A**, Ramírez-Herrejón JP. (2020). Trophic strategies of the invasive *Pseudoxiphophorus bimaculatus* (Teleostei:Poeciliidae) in an environmental gradient in central Mexico. Neotropical Ichthyology. Vol 18 (2). <https://doi.org/10.1590/1982-0224-2019-0080>
- Bermúdez-González, M. P., **Ramírez-García, A.**, Velázquez-García, E. C., Queijeiro-Bolaños, M. E. y Ramírez-Herrejón, J. P. (2020). Population structure of *Poecilia mexicana* (native) and *Poeciliopsis gracilis* (non-native) in a subtropical river. Latin American Journal of Aquatic Research, 48(3). DOI: 10.3856/vol48-issue3-fulltext-2423
- **Ramírez-García A**, Moncayo-Estrada R, González-Cárdenas J. J. and Domínguez-Domínguez O. 2021. Reproductive cycle of native viviparous fish species (Actinopterygii: Cyprinodontiformes: Goodeidae) in a subtropical lake. Accepted in Neotropical Ichthyology, Agosto, 2021.

4. Others publications

- Martina Medina Nava, Luis Humberto Escalera Vázquez, Yvonne Herrerías Diego, Rubén Hernández Morales, David Tafolla Venegas, Berenice Vital Rodríguez, Mar Silva V., **Ramírez-García A.**, Mar-Silva L.M., Chávez-G. R.R. y Omar Domínguez Domínguez. 2016. Fremskridt i genintroduktion af Zoogoneticus tequila i kilderne i Teuchitlán, Jalisco, México (del 1). Poecilia Bladet.

- Martina Medina Nava, Luis Humberto Escalera Vázquez, Yvonne Herrerías Diego, Rubén Hernández Morales, David Tafolla Venegas, Berenice Vital Rodríguez, Mar-Silva V., **Ramírez-García A.**, Mar-Silva L.M., Chávez-G. R.R. et Omar Domínguez Domínguez. 2017. Avancées de la

réintroduction de *Zoogoneticus tequila* dans les sources du rio Teuchitlán, État de Jalisco, Mexique. *Le Vivipare*

- Martina Medina Nava, Luis Humberto Escalera Vázquez, Yvonne Herrerías Diego, Rubén Hernández Morales, David Tafolla Venegas, Berenice Vital Rodríguez, Mar-Silva v., **Ramírez-García A.**, Mar-Silva L.M., Chávez-G. R.R. en Omar Domínguez Domínguez. 2017. Voortgang in de herintroductie van *Zoogoneticus tequila* in de bronnen van Teuchitlán, Jalisco, Mexico. *Poecilia nieuws*.
- **Ramírez-García A** y Domínguez-Domínguez O. 2019. Zacapu Lake, a Hot Spot of Native Fishes. *American Currents*. Vol. 44, Num 3.
- **Ramírez-García A** y Medina-Nava M. 2020. El sexo en los peces. *Revista de divulgación Saber Más*.
- **Ramírez-García A.**, Moncayo-Estrada, R. y Domínguez-Domínguez O. 2020. Small Lake, High Biodiversity: Lake Zacapu, México. *Livebearers journal of the American Livebearers Association (ALA)*. Vol. 11: 246.
- **Ramírez-García, A.**, García, G., Kock, M., Lyons, J. and Domínguez-Domínguez, O. 2020. Welcome Home, Reintroducing *Zoogoneticus tequila*, the tequila splitfin. *Amazonas magazine*. Vol 9 (5).
- **Ramírez-García A**, Domínguez-Domínguez O, Moncayo-Estrada R y García G. Los peces vivíparos de un pequeño lago en el centro de México. *Vivipare*, Francia. Febrero 2021.
- **Ramírez-García A** y Domínguez-Domínguez O. 2021. Zoogy, un pez extinto de regreso a su hábitat. *Saber Más*. Vol 56. 46-51 pp.
- **Ramírez-García A** y Pérez-Munguía R. M. 2021. Una mirada al mundo acuático de los macroinvertebrados. *Saber Más*. Vol 56. 18-22 pp.
- **Ramírez-García A** y Domínguez-Domínguez O. The process of the reintroduction of *Skiffia francesae*. Accepted in *Livebearers journal of the American Livebearers Association (ALA)*. Junio 2021.
- **Arely Ramírez-García**, Omar Domínguez-Domínguez, Rodrigo Moncayo-Estrada y Gerardo García. Viviparous fish in a small lake in Central

Mexico. Accepted in Livebearers journal of the American Livebearers Association (ALA). Julio 2021.

5. National and international conferences

- Conference at the American Livebearer Association convention, Michigan, USA. Date 2018.
- Conference "Conoces los peces del río Teuchitlán" within the framework of the Zoogy museum exhibition, held at the Guachimontones Interpretive Center, Jalisco, Mexico. Date 2018.
- Conference "Conservation of native fish of Central Mexico" within the framework of the PAUTA summer course (Adopt a Talent Program). Institute of Nuclear Sciences, UNAM. Mexico City. Date July 2020.
- Conference "Native and endemic species of a small lake in Central Mexico" in the virtual meeting of the international working group Goodeid Working Group, in celebration of the International Day of Biological Diversity. Oral participation, online mode. Date May 2021
- Conference "Sustainable Aquatic Resources, Society and Sustainable Development, Morelia Michoacán México" held at the National Seminar on the Human Right to Housing: Environmental Sustainability. Date 2019.
- Conference "A hotspot in Central Mexico, Laguna de Zacapu Protected Natural Area", held in the event "Celebration of Protected Natural Areas of Latin America and the Caribbean" online mode. Date October 2020
- Conference "Beyond the reintroduction of species, a multidisciplinary work", within the Michoacán Education 2021 Seminar. Date March 2021.

6. Participation in national and international congresses:

- State Council for Science, Technology, and Innovation, Michoacán, Mexico. Date 2015.
- Costa Rican Congress and IV Latin American Ichthyology Symposium Costa Rica, San José Costa Rica. Date 2015.

- The Thematic Network Biology, Management and Conservation of Native Fauna in anthropized environments, Querétaro, Mexico, Date 2016.
- XV National Congress / V Latin American Symposium. International Symposium on Fish Genomics. Aguascalientes, Mexico. Date 2016.
- Academic Forum of Postgraduate Biological and Agricultural Sciences. Michoacán, Mexico. Date 2016.
- VI Mexican Congress of Ecology, León Guanajuato, Mexico. Date 2017.
- VI Latin American Ichthyology Symposium in San Salvador, El Salvador. Date 2017. Participation with oral presentation and poster.
- 8th Academic Forum of Postgraduate Biological and Agricultural Sciences. Michoacán, Mexico. Date 2017.
- XVI National Congress of Ichthyology, VII Latin American Symposium of Ichthyology, Mérida Yucatán. Date 2018. Participation with five papers in oral and poster presentations.
- Open research seminar in the Institutional Ph.D. program in Biological Sciences (UMNSH), Morelia, Michoacán. Date 2019.
- VIII Latin American Symposium on Ichthyology and I Latin American Symposium on Neotropical Ichthyology Parasitology. Ricardo Palma University, city of Lima Peru. Date November 2019. Participation with oral presentation and poster.
- VI National Congress of Native Fauna in Anthropized Environments, through the Thematic Network Biology, Management and Conservation of Native Fauna in Anthropized Environments and the Mexican Scientific Society of Ecology. Oral participation, online mode. Date October 2020.
- Virtual meeting Dialogues on Ecology: facing the challenges of global change: lessons, progress, and opportunities. It participated in two investigations in oral presentations, online modality. Date April 2021

7. Scholarships and Honor Awards:

- Winner of a grant from the Livebearer Association's Langhammer Fund for Conservation for the project “Conservation plan of the central Mexico aquatic hot spot Zacapu Lake”. Date 2018.
- Scholarship for master studies, Consejo Nacional de Ciencia y Tecnología CONACYT. Date 2016 to 2018.
- Winner of the Ignacio Chávez medal, for excellence during postgraduate studies, Universidad Michoacana de San Nicolás de Hidalgo. Date 2019.
- Scholarship for Ph.D. studies, Consejo Nacional de Ciencia y Tecnología CONACYT. Date 2018 to 2022.
- Winner of the Grant awarded by the Rufford Foundation with the project entitled “Fish Community Structure and its Function in an Aquatic Hot Spot Mexican Subtropical Lake”. Date 2019. Access at https://www.rufford.org/projects/arely_ram%C3%ADrez_garc%C3%ADa

8. Supervised theses

- Ramírez-Patiño, N. M. (2020). Relationship of the reproductive variables with respect to the environmental variables of *Xiphophorus hellerii* (Heckel 1848) in the Teuchitlán river, Jalisco, Mexico. Bachelor's Thesis. Faculty of Biology. Michoacan University of San Nicolás De Hidalgo. Morelia, Michoacán, Mexico. Pp 55
- Evaristo-Moreno, J. F. (2020). Evaluation of the establishment of *Zoogoneticus tequila* (Webb and Miller, 1998) in the El Rincón spring, Teuchitlán, Jalisco, Mexico. Bachelor's Thesis. Faculty of Biology. Michoacan University of San Nicolás De Hidalgo. Morelia, Michoacán, Mexico. Pp 67
- Guzmán-Colín, T. I. (2021). Reproductive aspects of the non-native species *Xiphophorus hellerii*, in the Teuchitlán River, Jalisco, Mexico. Bachelor's Thesis. Faculty of Biology. Michoacan University of San Nicolás De Hidalgo. Morelia, Michoacán, Mexico. Pp 42

9. The direction of thesis in process

- Christian Ponce de León González. Reproductive biology of the Guatopote del Lerma *Poeciliopsis infans* (Cyprinodontiformes: Poeciliidae) in Lake Zacapu, Michoacán, Mexico. Bachelor's Thesis. Faculty of Biology.

Michoacan University of San Nicolás De Hidalgo. Morelia, Michoacán, Mexico. Completion October 2021.

- Ernesto Moreno Zamora. Current status of *Zoogoneticus tequila* (Webb and Miller, 1998), in the “El Rincón” spring, Jalisco, Mexico, one year after its reintroduction. Bachelor's Thesis. Faculty of Biology. Michoacan University of San Nicolás De Hidalgo. Morelia, Michoacán, Mexico. Culmination November 2021.

- Martha Sánchez Ménera. Feeding and some reproductive aspects of *Chapalichthys encaustus*, in the guaracha dam, Villamar municipality, Michoacán, Mexico. Bachelor's Thesis. Faculty of Biology. Michoacan University of San Nicolás De Hidalgo. Morelia, Michoacán, Mexico. Completion December 2021.

- Estefanía Mora Romo. Reproductive biology of a wildly extinct species, *Skiffia francesae* in a semi-natural pond for future reintroduction. Bachelor's Thesis. Faculty of Biology. University of Guadalajara, Mexico. Completion January 2022.

- Nayeli Montserrat Hernández Rodríguez. Diet and trophic evaluation of species extinct in nature: *Skiffia francesae* in semi-natural rustic pond. Bachelor's Thesis. Faculty of Biology. University of Guadalajara, Mexico. Completion January 2022.

10. Research projects

- Coordinator of the research project "Reintroduction of French *Skiffia* to its natural habitat". Aquatic Biology Laboratory, Universidad Michoacana de San Nicolás de Hidalgo, Morelia, Michoacán, Mexico.

- Coordinator of the environmental education area of the project "Reintroduction of French *Skiffia* to its natural habitat". Aquatic Biology Laboratory. Michoacan University of San Nicolás de Hidalgo, Morelia, Michoacán, Mexico.

- Coordinator and head of the research project "Conservation of the Zacapu Lagoon, a hotspot in Central Mexico". Aquatic Biology Laboratory. Michoacan University of San Nicolás de Hidalgo, Morelia, Michoacán, Mexico.

- Coordinator and head of the environmental education area of the project "Conservation of the Zacapu Lagoon, a hotspot in Central Mexico". Aquatic Biology Laboratory. Michoacan University of San Nicolás de Hidalgo, Morelia, Michoacán, Mexico.

11. TRAINING ATTENDED:

- Attendant to the workshop "Techniques in Histology", awarded by the Universidad Michoacana de San Nicolás de Hidalgo. Date 2014.
- Attendant to the workshop "Biology, Use and Conservation of Sharks". Awarded by the Mexican Association of Ichthyology. Date 2014.
- Attendant to the workshop "Trophic analysis in fish from continental aquatic ecosystems", granted by the Mexican ichthyological association, Aguascalientes, Mexico. Date 2016.
- Attendant to the Course-Workshop "Methodology in environmental education and participatory action research", awarded by the aquatic biology laboratory, UMNSH. Date 2018.
- Attendant to the "Naturalist" workshop, granted by the National Commission for the Knowledge and Use of Biodiversity CONABIO. Date May 2019. Morelia Michoacán, Mexico.
- Attendant to the course "Identification of freshwater zooplankton". XXI National meeting of the Mexican Society of Planctology and the XVI international meeting of the Mexican Society of Planktology. Date 2019.
- Attendee at the "Naturalist" workshop, given by the National Commission for the Knowledge and Use of Biodiversity (CONABIO). Online mode. Date September 2020.
- Attendant to the workshop "Social bases for the study of fauna in anthropized environments", given by the Thematic Network of Biology, Management and Conservation of Fauna in Anthropized Environments and the Mexican Scientific Society of Ecology. Online mode. Date October 2020.

12. Workshops/courses given

- Rapporteur at the Forum Applications of Ecohydrology in the evaluation and monitoring of aquatic communities and ecosystems, Cuernavaca Morelos (2015).
- Instructor in the Community Biomonitoring course given to the general public (2017).
- Qualifying jury of the short story contest "Let's take care of Zoogy", Teuchitlán Jalisco (2018)
- Coordinator of the workshop circuit in the Zoogy museum exhibition, held at the Guachimontones Interpretive Center (2018)
- Coordinator of the workshop circuit "Conservation of Zoogoneticus tequila" aimed at students from educational centers, Jalisco. (2018)
- Coordinator of the Zoogy museum exhibition, held at the Guachimontones Interpretive Center (2018).
- Facilitator of the workshop circuit in the Zoogy museum exhibition, held at the Guachimontones Interpretive Center (2018)
- Facilitator in the workshop circuit "conservation of Zoogoneticus tequila" aimed at students from educational centers in Teuchitlan (2018).
- Organizer of the short story contest "Let's take care of Zoogy" held in Teuchitlan, Jalisco. (2018).
- Design and assembly of the museum exhibition Zoogy (Zoogoneticus tequila), held at the Guachimontones Interpretive Center (2018).
- Organizer of the course workshop "incorporation of sustainability in teaching practice", given in Teuchitlán, Jalisco (2018)
- Facilitator of the course workshop "incorporation of sustainability in teaching practice", given in Teuchitlán, Jalisco (2018)
- Evaluator at the sixth PAUTA National Science Fair. Date September 2020.

13. Review of scientific articles:

- Reviewer of an article in the Revista Mexicana de Biodiversidad. July 2020.

14. Languages

- Spanish (Native)
- English (upper-intermediate)

15. Skills and interest

- Statistical analysis and Data visualization using R at intermediate level
- Microsoft Office

- Interest and experience in aquatic systems especially in fish community ecology and fish population ecology in freshwater ecosystems focused on native fish and interactions with exotic species.

- Experience in:

Fish Reproduction, biological fish aspects, fish trophic ecology, analysis of water quality, macroinvertebrates, reintroduction of extinct fish species to their natural habitat, conservation programs to protect native fish fauna.