

Mauricio Losilla, M.Sc.

Michigan State University, 288 Farm Lane Rm 037, East Lansing, MI 48824, USA

+1-517-432-4680 ▪ losillam@msu.edu ▪ <http://mlosilla.weebly.com>

Education:

- Ph.D. Dual degree in Integrative Biology and Ecology, Evolutionary Biology & Behavior, enrolled
Michigan State University, East Lansing, Michigan, USA
Research Advisor: Dr. Jason R. Gallant
Thesis Title: Electric organ discharge variation in mormyrid electric fish
- M.Sc. Biology with emphasis in Genetics & Molecular Biology, 2014
Universidad de Costa Rica, San Pedro, San Jose, Costa Rica
Research Advisor: Dr. Gustavo A. Gutierrez-Espeleta
- B.Sc. Biology, 2004
Universidad de Costa Rica, San Pedro, San Jose, Costa Rica

Honors and Awards:

- International Sponsored Student Tuition Award (2014-2015, 2015-2016)
- Fulbright Program for Foreign Students Fellowship (2014-2015, 2015-2016)
- Graduated with honors B.Sc. Biology (2004)
- Best grade average in Basic Sciences at Universidad de Costa Rica (2002)
- Best grade average in Biology at Universidad de Costa Rica (2002)
- Best grade average in Electrical Engineering at Universidad de Costa Rica (1999)
- Sixth-higher admission grade for Universidad de Costa Rica (1999)
- Graduated from high-school with honors (1998)
- Iberoamerican Mathematical Olympiad bronze medal winner (1998)
- Costa Rican Mathematical Olympiad gold medal winner (1997)

Publications:

- Tian, R., **M. Losilla**, G. Yang and H. Zakon. Evolution of globin genes in Gymnotiform electric fishes: relation to hypoxia tolerance. *BMC Evolutionary Biology* (submitted).

- Pitchers, W. R., S. J. Constantinou, **M. Losilla** and J. R. Gallant. Electric Fish Genomics: Progress, Prospects, and New Tools for Neuroethology. *Journal of Physiology –Paris* (accepted).
- Timm, R. M. and **M. Losilla**. 2007. Orb-weaving spider, *Argiope savignyi* (Araneidae), predation on the proboscis bat *Rhynchonycteris naso* (Emballonuridae). *Caribbean Journal of Science* 43:282–284. url: http://caribjsci.org/dec07/43_273d-284d.pdf

Presentations:

- **Losilla, M** and J. R. Gallant. The transcriptional basis of divergent electric organ discharges in *Paramormyrops* electric fish. XII International Congress of Neuroethology, Montevideo, Uruguay, 2016.
- **Losilla, M** and J. R. Gallant. The transcriptional basis of divergent electric organ discharges in *Paramormyrops* electric fish. XII International Congress of Neuroethology, Electric Fish Satellite Meeting: Electrosensory and Electromotor Systems, Montevideo, Uruguay, 2016.
- Gallant, J. R., **M. Losilla**, W. Warren, P. Minx, C. Tomlinson and S. Brown. The Mormyrid Genome: Projects, Prospects and New Tools for Neuroethology. XII International Congress of Neuroethology, Montevideo, Uruguay, 2016.

Teaching Experience:

- Teaching assistant for the course “IBIO 320 Developmental Biology” (MSU, Fall 2016)
- Professor for the course “Conservation Genetics” (UNA, III-2013)
- Co-lecturer professor for the course “Introduction to Biology II” (School of Biology, UCR, II-2012)
- Co-lecturer professor for the course “Genetic Variability and Conservation” (School of Biology, UCR, II-2012)
- Graduate teaching assistant for the course “Conservation Genetics” [Universidad Nacional (UNA), III-2011]
- Graduate teaching assistant for the course “Organic Evolution” (UCR, II-2005)
- Graduate teaching assistant for the course “Genetics for Biologists” (UCR, I-2005, I-2011, and I-2012)
- Teaching assistant for the course “Genetics for Biologists” (UCR, I-2004)
- Teaching assistant for the course “Genetics for Agronomists” (UCR, II-2004)
- Teaching assistant for the course “Genetics for Microbiologists” (UCR, I-2003 and II-2004)

Work & Research Experience:

- Plant Breeder and Lab Manager for Floranova Ltd., in Lompoc, CA, USA (2008-2010)
- Plant Breeder for Floranova S.A., in Cartago, Costa Rica (2007-2008)
- Participant in the Research Experiences for Undergraduates (REU) Program, supported by The Organization for Tropical Studies (OTS) (2005)
- Research assistantship at The Molecular and Celular Biology Research Center (CIBCM) of Universidad de Costa Rica (UCR) (2002-2004)

Relevant skills:

- Certified LabVIEW Associate Developer (2016)
- Fluent English and Spanish