

# ISABELA LIMA BORGES

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## EDUCATION

- 2018-present      PhD Integrative Biology, *Michigan State University, USA*
- Ecology, Evolution, and Behavior Dual Degree Program
  - Advisor: Dr. Sarah Fitzpatrick
  - Comprehensive Exam passed on December 17, 2020
  - Graduate Certification in Community Engagement (in progress)
- 2014-2017      BSc with High Distinction, *University of Toronto, Canada*
- Ecology and Evolutionary Biology Specialist
  - GPA: 4.0
- 2013-2014      Bachelor of Biology, *Universidade Federal do Rio de Janeiro, Brazil (incomplete, transferred)*
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## PUBLICATIONS

4. **Borges IL**, Dangerfield JC, Angeloni LM, Funk WC, Fitzpatrick SW. 2020. F Reproductive benefits associated with dispersal in headwater populations of Trinidadian guppies (*Poecilia reticulata*). *Ecology Letters* 25(2), 344-354. <https://doi.org/10.1111/ele.13929>
3. Boccia CK, Swierk L, Ayala-Varela FP, Boccia J, **Borges IL**, Estupiñán CA, Martin AM, Martínez-Grimaldo RE, Ovalle S, Senthivasan S, Toyama KS, Del Rosario Castañeda M, García A, Glor RE and Mahler DL. 2021. Repeated evolution of underwater rebreathing in diving Anolis lizards. *Current Biology* 31, 1-8. <https://doi.org/10.1016/j.cub.2021.04.040>
2. **Borges IL**, Forsyth LZ, Start D, Gilbert B. 2018. Abiotic heterogeneity underlies trait-based competition and assembly. *Journal of Ecology* 107(2):747-756. <https://doi.org/10.1111/1365-2745.13082>

1. Harrison TL, Wood CW, **Borges IL**, Stinchcombe JR. 2017. No evidence for adaptation to local rhizobial mutualists in the legume *Medicago lupulina*. *Ecology and Evolution* 7:4367–4376. <https://doi.org/10.1002/ece3.3012>
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## PRESENTATIONS

19. August 2023  
Poster: **Borges IL**, Fitzpatrick SW, Roy S. Increasing access to gear for undergraduates in field-based research. *Great IDEA Award*, Michigan State University, USA
18. July 2023  
Talk: **Borges IL**, Fenstemacher JL, Fitzpatrick SW. The effects of plant inbreeding on mutualisms. *Botany 2023*, Boise, USA
17. June 2023  
Talk: **Borges IL**, DeMarche ML, Fitzpatrick SW. Incorporating evolution into population modeling to understand genetic rescue. *Evolution Meeting 2023*, Albuquerque, USA
16. March 2023  
Invited seminar: **Borges IL**, Fenstemacher JL, Fitzpatrick SW. The guppy and the pea: how dispersal and mutualisms affect fitness in inbred populations. *EEBio*, University of Virginia, USA
15. June 2022  
Talk: Cathy Rushworth et al. Progress and shortcomings in pursuing inclusivity in EEB and within the tri-societies. *Evolution Meeting 2022*, Cleveland, USA
14. June 2022  
Talk: **Borges IL**, Fenstemacher JL, Fitzpatrick SW. The effects of inbreeding on mutualisms. *Evolution Meeting 2022*, Cleveland, USA
13. October 2021  
Poster: **Borges IL**, Fenstemacher JL, Fitzpatrick SW. The effects of inbreeding on mutualisms. *AGA President's Symposium*, Snowbird, USA
12. July 2021  
Virtual lightning talk: **Borges IL**, Fitzpatrick SW. The effects of plant inbreeding on the legume-rhizobia mutualism. *KBS LTER Fellowship Awardees Meeting*, Hickory Corners, USA
11. July 2020  
Virtual lightning talk: **Borges IL**, Fitzpatrick SW. Plant mutualists and parasites across environments. *KBS LTER Fellowship Awardees Meeting*, Hickory Corners, USA

10. April 2020 Virtual talk: **Borges IL**. Evolutionary ecology of small populations. *Brown Bag, Kellogg Biological Station, Hickory Corners, USA*
  9. July 2019 Lightning talk: **Borges IL**, Fitzpatrick SW. Effects of inbreeding and soil legacy on legume-rhizobia mutualisms. *KBS LTER Fellowship Awardees Meeting, Hickory Corners, USA*
  8. June 2019 Poster: Gerberich JC, **Borges IL**, Angeloni LM, Funk WC, Fitzpatrick SW. Fitness benefits of dispersal in Trinidadian guppies. *Evolution Meeting 2019, Providence, USA*
  7. April 2019 Talk: **Borges IL**. How do ecological interactions affect population genetics? *Brown Bag, Kellogg Biological Station, Hickory Corners, USA*
  6. August 2018 Talk: **Borges IL**, Forsyth LZ, Start D, Gilbert B. Invader traits and resident functional diversity determine invader establishment in heterogeneous communities, *Ecological Society of America Annual Meeting 2018, New Orleans, USA*
  5. June 2017 Poster: **Borges IL**, Harrison TL, Wood CW, Stinchcombe JR. No evidence for adaptation to local rhizobial mutualists in the legume *Medicago lupulina*, *Evolution Meeting 2017, Portland, USA*
  4. April 2017 Poster: **Borges IL**, Forsyth LZ, Start D, Gilbert B. Can functional traits predict community assembly?, *UofT Ecology and Evolutionary Biology Undergraduate Research Fair, Toronto, Canada*
  3. May 2016 Talk: **Borges IL**, Harrison TL, Wood CW, Stinchcombe JR. Local adaptation in the *Medicago*-rhizobia mutualism, *Ontario Ecology, Ethology and Evolution Colloquium 2016, Toronto, Canada*
  2. October 2013 Booth: Ecological and economic importance of algae, *Semana Nacional de Ciência e Tecnologia 2013, Rio de Janeiro, Brazil*
  1. September 2013 Booth: Plant diversity at Pedra Branca State Park, *Bio na Rua 2013 – Museu Nacional, Rio de Janeiro, Brazil*
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## SCHOLARSHIPS AND AWARDS

2023	Dissertation Completion Fellowship – <i>College of Natural Sciences, MSU</i>	\$10,000
2023	ASN Graduate Travel Award – <i>American Society of Naturalists</i>	\$500
2023	Don Hall Fellowship – <i>EEB, MSU</i>	\$1,000
2023	Great IDEA Award – <i>College of Natural Sciences, MSU</i>	\$7,797
2023	BSA Graduate Travel Award – <i>Botanical Society of America</i>	\$500
2022	LTER Graduate Writing Fellows – <i>LTER Network</i>	\$900
2022- 2023	W. K. Kellogg Biological Station K-12 & Outreach Fellowship – <i>MSU</i>	\$28,000
2021	EEB Professional Horizons Grant Award – <i>MSU</i>	\$500
2021	Botany Society of America J. S. Karling Graduate Student Research Award – <i>Botanical Society of America</i>	\$1,500
2021	W. K. Kellogg Biological Station Summer Graduate Student Award – <i>MSU</i>	\$2,978
2021	American Society of Naturalists Student Research Award – <i>American Society of Naturalists</i>	\$2,000
2021	W. K. Kellogg Biological Station Long Term Ecological Research Fellowship – <i>LTER Network</i>	\$6,500
2020	CLACS Tinker Field Research Fellowship – <i>MSU</i>	\$2,000
2020	W. K. Kellogg Biological Station Long Term Ecological Research Fellowship – <i>LTER Network</i>	\$6,500
2019	Workshop Travel Grant – <i>Society for the Study of Evolution</i>	\$500
2019	John R. Shaver Award – <i>Integrative Biology Department, MSU</i>	\$1,050
2019	Horton H. Hobbs, Jr. Endowment Fund – <i>Mountain Lake Biological Station</i>	\$397

2019	Ecology, Evolutionary Biology and Behavior Travel Award – <i>EEBB, MSU</i>	\$500
2019	W. K. Kellogg Biological Station Summer Graduate Student Award – <i>MSU</i>	\$2,000
2019	W. K. Kellogg Biological Station Long Term Ecological Research Fellowship – <i>LTER Network</i>	\$6,500
2018-19	College of Natural Science Recruiting Fellowship – <i>MSU</i>	\$70,000
2017	Undergraduate Diversity at Evolution Travel Award – <i>BEACON Center for Evolution in Action</i>	
2017	The Dorothy Whiting Scholarship in Ecology And Evolutionary Biology – <i>EEB, UofT</i>	CAD\$893
2017	Centre for Global Change Science Summer Undergraduate Intern Programme – <i>CGCS, UofT</i>	CAD\$8,000
2016-17	UofT Scholar International In-Course Scholarship – <i>UofT</i>	CAD\$1,500
2016-17	Viola Lobodowsky Scholarship In Science – <i>New College, UofT</i>	CAD\$775
2016	Koffler Scientific Reserve Undergraduate Student Research Award – <i>EEB, UofT</i>	CAD\$6,000
2015-16	Hadwen-Walker Undergraduate Scholarship – <i>EEB, UofT</i>	CAD\$532
2013-14	Jovens Talentos Para a Ciência Program – <i>CNPq</i>	R\$4,800

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## TEACHING

Summer 2022	Teaching assistant, IBIO 891: Current topics in Ecology and Evolution: Eminent Ecologist– <i>Kellogg Biological Station, MSU</i>
Fall 2021	Instructor, ISB 208L: Applications in Biological Science Laboratory – <i>MSU</i>

Summer 2021	Teaching assistant, IBIO 891: Current topics in Ecology and Evolution: Eminent Ecologist– <i>Kellogg Biological Station, MSU</i>
Summer 2021	Teaching assistant, IBIO 355L: Ecology Laboratory – <i>Kellogg Biological Station, MSU</i>
Fall 2020	Instructor, ISB 208L: Applications in Biological Science Laboratory – <i>MSU</i>
Summer 2020	Teaching assistant, STT 224: Introduction to Probability and Statistics for Ecologists – <i>Kellogg Biological Station, MSU</i>
Fall 2019	Instructor, IBIO 355L: Ecology Laboratory – <i>MSU</i>

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## **SERVICE**

2021-present	Graduate Student Member, SSE Diversity Committee – <i>Society for the Study of Evolution</i>
2021-2022	KBS Graduate Affairs Committee, <i>Kellogg Biological Station – MSU</i>
2021-2022	EEB Postdoc Committee, <i>Ecology, Evolution, and Behavior Program – MSU</i>
2020-2021	Graduate Student Mentorship Initiative, <a href="#">Científico Latino</a>
2020-2021	EEB Awards Committee, <i>Ecology, Evolution, and Behavior Program – MSU</i>
2020-2021	Diversity, Equity and Inclusion Journal Club Co-Leader, <i>Ecology, Evolution, and Behavior Program – MSU</i>
2019-2021	IBIO Diversity, Equity and Inclusion Committee, <i>Integrative Biology Department – MSU</i>
2019-2020	IBIO Graduate Employees Union Representative, <i>Integrative Biology Department – MSU</i>
2019-2020	EEBB Research Symposium Committee Co-Chair, <i>Ecology, Evolutionary Biology and Behavior Program – MSU</i>
2016-2017	EEBU President, <i>Ecology and Evolutionary Biology Student Union – UofT</i>

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## **SOCIETY MEMBERSHIP**

2018-present	Society for the Study of Evolution (SSE)
2019-present	Botanical Society of America (BSA)
2020-present	American Society of Naturalists (ASN)
2018-2022	Graduate Women in Science (GWIS)

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## **REFERENCES**

Dr. Sarah Fitzpatrick

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Department of Integrative Biology, Michigan State University

PhD advisor

Dr. Nicholas Haddad

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Department of Integrative Biology, Michigan State University

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Dr. Emily Josephs

[josep993@msu.edu](mailto:josep993@msu.edu)

Department of Plant Biology, Michigan State University

PhD Committee member