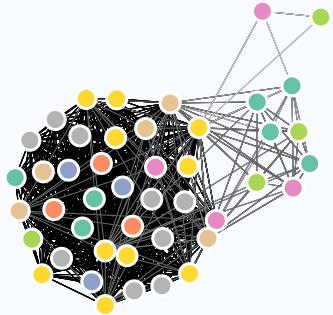


DYLAN PADILLA

I am an Evolutionary Biology PhD candidate at the School of Life Sciences, [Arizona State University](#). My research examines the evolution of the life history among vertebrates and invertebrates (e.g., [see here](#)). In doing so, I use phylogenetic comparative methods to generate hypotheses and draw broad conclusions that can be applied to wide ranges of taxa (e.g., [see here](#)). In addition, I conduct experimental evolution studies to examine the frequency of alleles with underlying effects on the foraging behavior of individuals evolving under different selective pressures, which enables me to make strong inferences concerning phenotypic and genetic responses to selection (e.g., [see here](#)).



EDUCATION

- | | |
|-------------------|---|
| 2025

2020 | <ul style="list-style-type: none">● PhD. Candidate, Evolutionary Biology
Arizona State University 📍 AZ, USA<ul style="list-style-type: none">• Working on the genetic basis of foraging behavior and its connection to the life history |
| 2023

2020 | <ul style="list-style-type: none">● M.S., Evolutionary Biology
Arizona State University (ASU) 📍 AZ, USA |
| 2019

2017 | <ul style="list-style-type: none">● M.S., Ecology and Evolution
Federal University of Sao Paulo (UNIFESP) 📍 Sao Paulo, Brazil<ul style="list-style-type: none">• Thesis: Effects of food intake and hydration state on behavioral thermoregulation and locomotor activity in the tropidurid lizard <i>Tropidurus catalanensis</i> |
| 2016

2010 | <ul style="list-style-type: none">● B.S., Biology
Universidad del Atlantico 📍 Barranquilla, Colombia<ul style="list-style-type: none">• Thesis: Color variation in the pitviper <i>Porthidium lansbergii</i> and its role on the thermorregulatory capacity |

JOBS AND RESEARCH EXPERIENCE

- | | |
|-------------------|---|
| 2024

2023 | <ul style="list-style-type: none">● Consultant
Dreamscape Learn, Inc., a Delaware corporation 📍 AZ, USA<ul style="list-style-type: none">• Consultant to provide data set validation including but not limited to building parameters for Alien Zoo Biology student data sets, and create formulas for data sets to allow instructors to automatically update data based on pre-existing parameters |
|-------------------|---|

CONTACT

- ✉ dpadill0@asu.edu
🐦 https://x.com/Dylan_Padilla94
/github.com/Dylan-Padilla
/@dylanpadilla.netlify.app/

LANGUAGE SKILLS



Made with the R package [pagedown](#).

The source code is available on github.com/Dylan-Padilla/pagedown-cv.

Last updated on 2024-08-05.

2019 2019	● Intern Smithsonian Tropical Research Institute (STRI) • The genomic basis of thermal adaptation: a large-scale transplant experiment in the Panama Canal	📍 Gamboa, Panama
2019 2018	● Exchange Student School of Life Sciences, Arizona State University	📍 AZ, USA
2015 2013	● Intern Grupo Herpetologico de Antioquia (GHA) • Monitoring the terrestrial vertebrate fauna in the Jaguas and San Carlos hydroelectric power plants in eastern Antioquia. Inter-institutional agreement between the University of Antioquia and ISAGEN	📍 Medellin, Colombia

✉ PEER-REVIEWED PUBLICATIONS

- 2024 ● Graham Z.A., Padilla Perez D.J.¹, 2024. Correlated evolution of conspicuous colouration and burrowing in crayfish. *Proc. R. Soc. B* 291: 20240632. doi: <https://doi.org/10.1098/rspb.2024.0632>
- 2024 ● Padilla Perez, D.J.², 2024. Geographic and seasonal variation of the *for* gene reveal signatures of local adaptation in *Drosophila melanogaster*. *Journal of Evolutionary Biology*. doi: <https://doi.org/10.1101/2023.02.19.529142>
- 2022 ● Padilla Perez, D.J.³, DeNardo, D.F., Angilletta Jr., M.J., 2022. The correlated evolution of foraging mode and reproductive effort in lizards. *Proc. R. Soc. B* 289: 20220180. doi: <https://doi.org/10.1098/rspb.2022.0180>
- 2022 ● Padilla Perez, D.J.⁴, Angilletta Jr., M.J., 2022. Macroclimatic and maternal effects on the evolution of reproductive traits in lizards. *Ecology and Evolution*, 12, e8885. doi: <https://doi.org/10.1002/ece3.8885>
- 2021 ● Padilla Perez, D.J.⁵, de Carvalho, J.E., Navas, C.A., 2021. Effects of food intake and hydration state on behavioral thermoregulation and locomotor activity in the tropidurid lizard *Tropidurus catalanensis*. *Journal of Experimental Biology*, 224-6. doi: <https://doi.org/10.1242/jeb.242199>
- 2020 ● Logan M.L., ..., Padilla Perez, D.J.⁶, ..., Cox, C.L., 2020. Sex-specific microhabitat use is associated with sex-biased thermal physiology in *Anolis* lizards. *Journal of Experimental Biology*, 224-2. doi: <https://doi.org/10.1242/jeb.235697>
- 2020 ● Cox, C.L., ..., Padilla Perez, D.J.⁷, ..., Logan, M.L., 2020. Ectoparasite extinction in simplified assemblages during experimental island invasion. *Biol. Lett.*, 16-8, 20200474. doi: <http://dx.doi.org/10.1098/rsbl.2020.0474>

- 2020 ● Graham, Z.A., Padilla Perez, D.J.⁸, Angilletta Jr., M.J., 2020. Virile crayfish escalate aggression according to body size instead of weapon size. *Animal Behaviour*, 163, 9-15. doi: <https://doi.org/10.1016/j.anbehav.2020.02.014>
- 2019 ● Vimmerstedt, J.C., Padilla Perez, D.J.⁹, Angilletta Jr., MJ, VandenBrooks, J.M., 2019. Oxygen supply limits the heat tolerance of avian embryos. *Biol. Lett.*, 15-11, 20190566. doi: <http://dx.doi.org/10.1098/rsbl.2019.0566>
- 2015 ● Padilla Perez, D.J.¹⁰, Murillo Monsalve, J.D., Rincon Baron, E.J., Daza, J.M., 2015. Non-specialized caudal pseudoautotomy in the Emerald Racer snake *Drymobius rhombifer* -Gunther, 1860-. *Herpetology Notes*, 8, 567-569.

GRANTS AND AWARDS

- 2019 | 2018 ● **Grant #2018/17251-0, Sao Paulo Research Foundation**
Federal University of Sao Paulo (UNIFESP)  Sao Paulo, Brazil
• Project: What drives the evolution of dorsal coloration in tropidurid lizards?
- 2019 | 2018 ● **Grant #2017/21747-8, Sao Paulo Research Foundation**
Federal University of Sao Paulo (UNIFESP)  Sao Paulo, Brazil
• Project: Effects of food intake and the hydration state on behavioral thermoregulation in the tropidurid lizard *Tropidurus catalanensis*
- 2018 | 2016 ● **Coordenacao de Aperfeicoamento de Pessoal de Nivel Superior, CAPES**
Federal University of Sao Paulo (UNIFESP)  Sao Paulo, Brazil
• Project: Effects of food intake and the hydration state on behavioral thermoregulation in the tropidurid lizard *Tropidurus catalanensis*
- 2017 | 2017 ● **Young investigator and innovator for peace, Colciencias**
Universidad del Atlantico  Barranquilla, Colombia
• Project: Diversity, distribution and some topics on the behavior of frugivorous butterflies in zones of post-conflict in the Colombian Caribbean

MEMBER OF COMMITTEE AND MENTORING

- 2024 ● **Mentoring**
Bailey Kane, undergraduate at Barrett, the Honors College at Arizona State University
Rachel Doherty, undergraduate student at Arizona State University  Tempe, AZ
- 2020 ● **Diversity and microhabitat use by amphibians present in four plant coverages of the Brasilar reserve of Cerro de Maco, San Jacinto, Bolivar-Colombia.**
Jose Julio, B.S. in Biology from the Universidad del Atlantico (2020)  Barranquilla, Colombia

- 2020 • Use of spatial and trophic resources by Anole species Daudin, 1982-Squamata:Dactyloidae- in a fragment of tropical dry forest, Bolivar, Colombia.
Ricardo Ortega, B.S. in Biology from the Universidad del Atlantico (2020)  Barranquilla, Colombia
- 2017 • Locomotor performance among males and females of the invasive amphibian *Eleutherodactylus johnstonei*.
Raphaela Batista, B.S. in Biology from the Federal University of Sao Paulo (2017)  Sao Paulo, Brazil
- 2017 • Intraspecific comparative analysis of maternal body condition and offspring quality in the snake species *Pantherophis guttatus*-Serpentes, Colubridae.
Eduardo Dinelli, B.S. in Biology from the Federal University of Sao Paulo (2017)  Sao Paulo, Brazil



RECENT TALKS, INVITED TALKS, WORKSHOPS ATTENDED

- 2024 • Padilla Perez, D.J.¹¹. Larger prokaryotes grow faster only at high temperatures.
Third Joint Congress of Evolutionary Biology (July 26-30)  Montreal, Canada.
• <https://dylanpadilla.netlify.app/talk/evolution-2024-talk/>
<https://dylan-padilla.github.io/EVO2024/#1>
- 2024 • Padilla Perez, D.J.¹². Beyond Microsoft: A Series of YouTube Shorts.
ASN Graduate Student Mixer (July 28)  Montreal, Canada.
• <https://dylan-padilla.github.io/beyond-microsoft-slides/#1>
- 2024 • SLiM Workshop.
Ancona (May 26-31)  Italy
- 2024 • Padilla Perez, D.J.¹³, Liam Revell, and Michael Angilletta. Gene copy number promotes the rapid evolution of pests across Diptera.
TAGC24 (Mar 06-10)  Washington, D.C.
• <https://dylan-padilla.github.io/TAGC24-poster/>
- 2023 • Padilla Perez, D.J.¹⁴ The population genetics of foraging behavior.
Evolution 2023 (Jun 21-25)  Albuquerque, NM
• <https://dylan-padilla.github.io/EVO2023/>
- 2023 • Padilla Perez, D.J.¹⁵ Challenging the foraging mode paradigm: a case study of lizards.
Herp group 2023 (Apr 28)  Phoenix, AZ
• Invited speaker
<https://dylan-padilla.github.io/herp-group2023/#1>
- 2023 • Workshop on Genomics.
Cesky Krumlov (May 14-21)  Czech Republic

- 2022
- Padilla Perez, D.J.¹⁶, DeNardo, D.F., Angilletta Jr., M.J. The correlated evolution of foraging mode and reproductive effort in lizards.
Evolution 2022 meeting (Jun 24-28)
· https://youtu.be/Dj1V7JM4P_4
 - Cleveland, OH

2022

 - Padilla Perez, D.J.¹⁷, Angilletta Jr., M.J. Macroclimatic and maternal effects on the evolution of reproductive traits in lizards.
ESEB 2022 (Aug 14-19)
· <https://github.com/Dylan-Padilla/poster-ESEB2022/blob/main/index.pdf>
 - Prague, Czech Republic

SERVICE AND SOCIETY MEMBER

- present | 2021
- Society for the Study of Evolution
· Active member
 - USA
- present | 2021
- The American Society of Naturalists
· Active member of the American Society of Naturalists Diversity Committee
Current Graduate Student Representative of the American Society of Naturalists
 - USA
- 2024 | 2022
- Judge at the Annual Undergraduate Research Symposium.
Arizona State University (April 22, 2022)
 - Tempe, AZ

REVIEWER

- Evolutionary Applications
- Journal of Zoology
- Oikos

LANGUAGES

- English: B2-TOEFL
- Portuguese: Intermediate-advance (CELPE-BRAS)
- Spanish: Good