

IDENTIFYING INFORMATION:

NAME: Ávila-Lovera, Eleinis

ORCID iD: <https://orcid.org/0000-0003-3529-3600>

POSITION TITLE: Assistant Professor

PRIMARY ORGANIZATION AND LOCATION: University of Utah, Salt Lake City, Utah, United States

Professional Preparation:

ORGANIZATION AND LOCATION	DEGREE (if applicable)	RECEIPT DATE	FIELD OF STUDY
Smithsonian Tropical Research Institute, Panama City, Panama, Panama	Postdoctoral Fellow	08/2020 - 07/2023	Stem photosynthesis
Chapman University, Orange, California, United States	Postdoctoral Fellow	07/2018 - 06/2020	Plant functional traits
University of California Riverside, Riverside, California, United States	PHD	06/2018	Evolution, Ecology and Organismal Biology
Smithsonian Tropical Research Institute, Panama City, Panama, Panama	Other training	06/2012 - 09/2012	Plant nutrients
Universidad Central de Venezuela, Caracas, Not Applicable, N/A, Venezuela	BS	12/2011	Biology

Appointments and Positions

- 2023 - present Assistant Professor, University of Utah, School of Biological Sciences, Salt Lake City, Utah, United States
- 2012 - 2013 Instructor of record in Plant Biology and Plant Physiology, Central University of Venezuela, Caracas, Not Applicable, N/A, Venezuela
- 2012 - 2012 Research Assistant, Central University of Venezuela, Caracas, Not Applicable, N/A, Venezuela

Products**Products Most Closely Related to the Proposed Project**

- Ávila E, Herrera A, Tezara W. Contribution of stem CO₂ fixation to whole-plant carbon balance in nonsucculent species. *Photosynthetica*. 2014; 52(1):3-15. Available from: <http://ps.ueb.cas.cz/doi/10.1007/s11099-014-0004-2.html> DOI: 10.1007/s11099-014-0004-2
- Ávila-Lovera E, Zerpa A, Santiago L. Stem photosynthesis and hydraulics are coordinated in desert plant species. *New Phytologist*. 2017 August 21; 216(4):1119-1129. Available from: <https://nph.onlinelibrary.wiley.com/doi/10.1111/nph.14737> DOI: 10.1111/nph.14737
- Ávila-Lovera E, Haro R, Ezcurra E, Santiago L. Costs and benefits of photosynthetic stems in desert species from southern California. *Functional Plant Biology*. 2019; 46(2):175-. Available from: <http://www.publish.csiro.au/?paper=FP18203> DOI: 10.1071/FP18203
- Santiago L, Bonal D, De Guzman M, Ávila-Lovera E. Drought Survival Strategies of Tropical

Trees. *Tree Physiology* [Internet] Cham: Springer International Publishing; 2016. Chapter Chapter 11243-258p. Available from: http://link.springer.com/10.1007/978-3-319-27422-5_11 DOI: 10.1007/978-3-319-27422-5_11

5. Harenčár J, Ávila-Lovera E, Goldsmith G, Chen G, Kay K. Flexible drought deciduousness in a neotropical understory herb. *American Journal of Botany*. 2022 August 25; 109(8):1262-1272. Available from: <https://bsapubs.onlinelibrary.wiley.com/doi/10.1002/ajb2.16037> DOI: 10.1002/ajb2.16037

Other Significant Products, Whether or Not Related to the Proposed Project

1. Ávila-Lovera E, Urich R, Coronel I, Tezara W. Seasonal gas exchange and resource-use efficiency in evergreen versus deciduous species from a tropical dry forest. *Tree Physiology*. 2019 September; 39(9):1561-1571. Available from: <https://academic.oup.com/treephys/article/39/9/1561/5499166> DOI: 10.1093/treephys/tpz060
2. Ávila-Lovera E, Garcillán P, Silva-Bejarano C, Santiago L. Functional traits of leaves and photosynthetic stems of species from a sarcocaulous scrub in the southern Baja California Peninsula. *American Journal of Botany*. 2020 October 14; 107(10):1410-1422. Available from: <https://bsapubs.onlinelibrary.wiley.com/doi/10.1002/ajb2.1546> DOI: 10.1002/ajb2.1546
3. Ávila-Lovera E, Garcillán P. Phylogenetic signal and climatic niche of stem photosynthesis in the mediterranean and desert regions of California and Baja California Peninsula. *American Journal of Botany*. 2020 December 06; 108(2):334-345. Available from: <https://bsapubs.onlinelibrary.wiley.com/doi/10.1002/ajb2.1572> DOI: 10.1002/ajb2.1572
4. Ávila-Lovera E, Goldsmith G, Kay K, Funk J. Above- and below-ground functional trait coordination in the Neotropical understory genus *Costus*. *AoB PLANTS*. 2022 February 01; 14(1):- . Available from: <https://academic.oup.com/aobpla/article/doi/10.1093/aobpla/plab073/6448074> DOI: 10.1093/aobpla/plab073
5. Ávila-Lovera E, Winter K, Goldsmith G. Evidence for phylogenetic signal and correlated evolution in plant–water relation traits. *New Phytologist*. 2022 December 02; 237(2):392-407. Available from: <https://nph.onlinelibrary.wiley.com/doi/10.1111/nph.18565> DOI: 10.1111/nph.18565

Synergistic Activities

1. Highschool Outreach. Multiple events aimed to increase the interest of high school students in STEM, with my most recent participation at a Science Q&A, organized by the Science Club at Hillcrest High School, Midvale, UT (November 27, 2023). As one of three panelists, I presented my research and the path to my current position, and students asked about research opportunities at the University of Utah.
2. Outreach and community service. Served as a member in multiple teams designed to increase DEI and accessibility at the Smithsonian Tropical Research Institute, with the most recent participation in the Anti-Harrasment Task Force (2022). This team was in charge of proposing ideas to the director on how to address issues of harassment that came up after a global environment survey was conducted at the institute.
3. Editorial Service. Reviewer for multiple journals but most importantly, reviewing editor for *Applications in Plant Sciences* (2020-2022), the open-access journal of the American Journal of

Botany, where new methods and protocols are shared with the plant biology community.

4. Service to Research Community. Founding member (along Dr. Aleyda Acosta-Rangel from UF) of the Latin American Network for Plant Ecophysiology in 2020. The main goal of the network is to increase the visibility of the science done in Latin America, and serve as a connecting point for multiple researchers that can potentially collaborate on projects. So far, we have held four annual symposia and numerous monthly seminars and discussion panels on topics related to the ecophysiology of plants from Latin American countries.
5. Mentoring. Both as a graduate student and as a postdoctoral fellow, I have had the opportunity to mentor undergraduate students from diverse backgrounds. These were unique opportunities to teach students the scientific method: teach them how to ask questions, test hypotheses, collect and analyze data, and present results. Some of the students that I have mentored presented their research at local and international conferences, and some of these students have also been co-authors of my publications.

Certification:

When the individual signs the certification on behalf of themselves, they are certifying that the information is current, accurate, and complete. This includes, but is not limited to, information related to domestic and foreign appointments and positions. Misrepresentations and/or omissions may be subject to prosecution and liability pursuant to, but not limited to, 18 U.S.C. §§ 287, 1001, 1031 and 31 U.S.C. §§ 3729-3733 and 3802.

Certified by Ávila-Lovera, Eleinis in SciENcv on 2024-01-10 19:29:28