Stanford

Lucas Jacob Albano

Lecturer, Biology

CONTACT INFORMATION

- **Contact**

  Lucas Jacob Albano

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Bio

BIO

Lucas is an evolutionary ecologist who focuses on adaptation to environmental change in plants. Through his academic pathway in Canada, he has studied plant responses to their environment in agricultural systems (B.Sc.), interior Alaskan wetlands (M.Sc.), and human-disturbed environments across the eastern United States and Europe (Ph.D.). More recently, he was a Postdoctoral Research Associate at North Carolina State University, investigating responses to climate warming and drought in scarlet monkeyflower populations from California and Oregon. Lucas joined the Department of Biology at Stanford University in September 2026 to continue to explore his passion for providing unique, relevant, and practical educational experiences for undergraduate students in ecology and evolution courses.

ACADEMIC APPOINTMENTS

- Lecturer, Biology

PROFESSIONAL EDUCATION

- Doctor of Philosophy, University of Toronto , Ecology and Evolutionary Biology (2024)
- Master of Science, University of Guelph , Integrative Biology (2018)
- Bachelor of Science, University of Western Ontario , Environmental Science and Biology (2015)

Teaching

COURSES

2026-27

- Introduction to Ecology: BIO 81 (Aut)
- Introduction to Research in Ecology and Evolutionary Biology: BIO 47, EARTHSYS 47 (Win)

Publications

PUBLICATIONS

- **The evolution of plasticity in drought-related traits in central and edge populations of Mimulus cardinalis.** *Journal of evolutionary biology*

Cook, E., Albano, L. J., Gomez-Vega, X., Kutella, K., Moazed, M., Strebler, M., Wang, D., Muir, C. D., Flores-Renteria, L., Sexton, J. P., Sheth, S. N., Diez, J.

2026

- **A field experiment assessing the roles of drought, herbivory, and local climate on cyanogenesis cline formation and local adaptation in Trifolium repens.** *Journal of evolutionary biology*

  Albano, L. J., Patterson, C. M., Kidder, E. J., Kooyers, N. J., Johnson, M. T.

  2026; 39 (4): 535-551

- **A transcontinental experiment elucidates (mal)adaptation of a cosmopolitan plant to climate in space and time** *ECOLOGICAL MONOGRAPHS*

  Albano, L. J., Bastias, C. C., Estarague, A., Hendrickson, B. T., Innes, S. G., King, N., Patterson, C. M., Tudoran, A., Vasseur, F., Puentes, A., Violle, C., Kooyers, N. J., Johnson, et al

  2026; 96 (1)

- **Rangewide responses of Mimulus cardinalis to an extreme heat event.** *American journal of botany*

  Albano, L. J., Bingham, R. A., Correa, S., Laufenberg, C. G., Payst, C., Muir, C. D., Sheth, S. N.

  2026; 113 (2): e70145

- **Evolutionary Responses to Historic Drought across the Range of Scarlet Monkeyflower.** *The American naturalist*

  Sheth, S. N., Albano, L. J., Blanchard, C., Cook, E., Diaz, R., Gomez-Vega, X., Kutella, K., Moazed, M., Patel, M., Prange, J., Ramadoss, N., Regan, A., Riley, et al

  2026; 207 (1): 135-155

- **Evolution of drought resistance strategies following the introduction of white clover (Trifolium repens L.).** *Annals of botany*

  Hendrickson, B. T., Stamps, C., Patterson, C. M., Strickland, H., Foster, M., Albano, L. J., Kim, A. Y., Kim, P. Y., Kooyers, N. J.

  2025; 135 (7): 1377-1392

- **Haploblocks contribute to parallel climate adaptation following global invasion of a cosmopolitan plant.** *Nature ecology & evolution*

  Battlay, P., Hendrickson, B. T., Mendez-Reneau, J. I., Santangelo, J. S., Albano, L. J., Wilson, J., Caizergues, A. E., King, N., Puentes, A., Tudoran, A., Violle, C., Vasseur, F., Patterson, et al

  2025; 9 (8): 1441-1455

- **Assessing the Benefits and Costs of the Hydrogen Cyanide Antiherbivore Defense in Trifolium repens** *PLANTS-BASEL*

  Fadoul, H., Albano, L. J. J., Bergman, M. E. E., Phillips, M. A. A., Johnson, M. T. J.

  2023; 12 (6)

- **Interactions between environmental factors drive selection on cyanogenesis in Trifolium repens** *OIKOS*

  Albano, L. J. J., Johnson, M. T. J.

  2023; 2023 (5)

- **Deep roots of Carex aquatilis have greater ammonium uptake capacity than shallow roots in peatlands following permafrost thaw** *PLANT AND SOIL*

  Albano, L. J., Turetsky, M. R., Mack, M. C., Kane, E. S.

  2021; 465 (1-2): 261-272

- **Investigating the ability of Pseudomonas fluorescens UW4 to reduce cadmium stress in Lactuca sativa via an intervention in the ethylene biosynthetic pathway.** *Canadian journal of microbiology*

  Albano, L. J., Macfie, S. M.

  2016; 62 (12): 1057-1062