

**Tina Lau**  
**College of Tropical Agriculture and Human Resources**  
**Department of Tropical Plant and Soil Sciences**  
FTE Distribution: 100% Extension

**Education**

<u>Degree</u>	<u>University</u>	<u>Major</u>
MS	University of Hawaii at Manoa	Botanical Sciences
BA	University of Hawaii at Manoa	Botanical Sciences, Specialization: Ecology, Evolution & Conservation Biology

**Professional Appointments**

<u>Title</u>	<u>Employer</u>	<u>Dates Employed</u>
Jr. Extension Agent	University of Hawaii at Manoa	2022 to Present
Lecturer	University of Hawaii at Manoa	2018, 2019

**Courses Taught**

Bot 350	Resource Management and Conservation Biology of Hawaii (3)
NA	O'ahu Master Gardener Course (non-credit)

**Publications**

Refereed Journal Publications

**Lau, T.**, E. Eno, G. Goldstein, C. Smith, & D.A. Christopher. 2006. "Ambient levels of UV-B in Hawaii combined with nutrient deficiency decrease photosynthesis in near-isogenic maize lines varying in leaf flavonoids: Flavonoids decrease photoinhibition in plants exposed to UV-B." *Photosynthetica*, 44(3), 394-403.

Santiago, L., **T. Lau**, P. Melcher, O. Steele, & G. Goldstein. 2000. Morphological and Physiological Responses of Hawaiian Hibiscus tiliaceus Populations to Light and Salinity. *International Journal of Plant Sciences*, 161(1), 99-106.

**Lau, T.** (1998). Protection of the Photosynthetic Apparatus from UV-B Radiation by Anthocyanin (flavonoid) Pigments in Near-isogenic Maize Lines. (Thesis)

Extension Publications

**Lau, T.**, Ahmad, A., Hauck, E., Manandhar, R., and Sugano, J. [Collective Action for Control of Invasive Species on Windward O'ahu](#). July 2022. Honolulu, HI. Pub. IP-53. pp. 1-6.

Web-based Extension Newsletter Articles

Higashi, J. and **T. Lau**. [Festive Plants for the Holidays](#). Landscape Industry Council of Hawaii. Honolulu, HI. Pub. #82: Jan/Feb 2025.

Matsunaga, D., C. Chung, and **T. Lau**. Growing Green Beans. Sustainable and Organic Agriculture Program. [Hānai 'Ai Newsletter 55](#): Sept. 2024. University of Hawaii at Mānoa. College of Tropical Agriculture and Human Resources.

Matsunaga, D., C. Chung, and **T. Lau**. Tomato Seed Saving. Sustainable and Organic Agriculture Program. [Hānai 'Ai Newsletter 54](#): June 2024. University of Hawaii at Mānoa. College of Tropical Agriculture and Human Resources.

**Lau, T.** and A. Ricordi. [Hawaiian Alphabet Tree Garden Serves as a Community Resource](#). Landscape Industry Council of Hawaii. Honolulu, HI. Pub. #74: September/October 2023

Fagan, S., B. Maresca, and **T. Lau**. [Ti Leaf Plant Propagation at Kaimuki High School Recommended Cutting Techniques](#). Sustainable and Organic Agriculture Program. Hānai 'Ai Newsletter 51: Sept. 2023. University of Hawaii at Mānoa. College of Tropical Agriculture and Human Resources.

Chung, P., C. Hanakawa, A. Ahmad., J. Uyeda, **T. Lau**, J. Silva, and J. Sugano. [Growing Lettuce Under Shade Conditions](#). Sustainable and Organic Agriculture Program. Hānai 'Ai Newsletter 50: June 2023. University of Hawaii at Mānoa. College of Tropical Agriculture and Human Resources.

Chung, P., J. Silva, J. Uyeda, C. Hanakawa, **T. Lau**, and J. Sugano. [Non-Chemical Weed Management in Small Gardens](#). Sustainable and Organic Agriculture Program. Hānai 'Ai Newsletter 49: March 2023. University of Hawaii at Mānoa. College of Tropical Agriculture and Human Resources.

Chung, P., C. Hanakawa, **T. Lau**, J. Uyeda, A. Ahmad, and J. Sugano. [Increasing Success Rate in Backyard Cilantro](#). University of Hawai'i at Mānoa, College of Tropical Agriculture and Human Resources. Sustainable and Organic Agriculture Program. Hānai 'Ai Newsletter 48: Nov. 2022. University of Hawaii at Mānoa. College of Tropical Agriculture and Human Resources.

Chung, P., C. Hanakawa, **T. Lau**, J. Uyeda, A. Ahmad and J. Sugano. [Hydroponics Solutions for Background or Classroom Systems](#). Sustainable and Organic Agriculture Program. Hānai 'Ai Newsletter 47: Sept. 2022. University of Hawaii at Mānoa. College of Tropical Agriculture and Human Resources.

Hanakawa, C., A. Ahmad, **T. Lau**, and J. Sugano. [Increasing Youth Engagement with Flowers](#). Sustainable and Organic Agriculture Program. Hānai 'Ai Newsletter 46: June 2022. University of Hawaii at Mānoa. College of Tropical Agriculture and Human Resources.

Ahmad, A., C. Hanakawa, **T. Lau**, and J. Sugano. June 2022. [Sunflower: A Multi-Purpose Crop: Edible Oil Production, Livestock Feed, and as an Ornamental Crop](#). Sustainable and Organic Agriculture Program. Hānai 'Ai Newsletter 46: June 2022. University of Hawaii at Mānoa. College of Tropical Agriculture and Human Resources.

Creative Works (i.e., Extension Videos, Websites, Blogs, Creative Designs and Exhibitions, etc.)  
**Lau, T.** and J. Higashi. 2024 - 2025. Short Takes: Monthly Volunteer Digital Newsletter.

**Lau T.** O'ahu Master Gardener Website. <https://cms.ctahr.hawaii.edu/uhtmprogram/Home/Oahu>

## Leadership Roles

### CTAHR Hiring Committees

Committee member. 2025. Assistant Extension Agent (Urban Horticulture). Maui County. Position #82139.

**Committee Chair.** 2025. Assistant Extension Agent (Urban Horticulture and Food Systems). Oahu County. Position #84954.

Committee Member. 2024. Junior Extension Agent (Pacific Crops and Master Gardener). Hawaii County. Position #85418T.

### **Grant Support**

Investigators: Baldos, O., A. Kaufman, A. Ricordi, **T. Lau**, S. Eng.

Title of Grant: Edible landscaping guidelines (from planning, design, maintenance and use) and demonstration gardens to enhance food security and sustainability in Hawai'i

Source of Grant: College of Tropical Agriculture and Human Resilience

Total Dollar Value: \$70,458

Dates of Grant: 2024 – 2025

Role: CoPI

Investigators: Jiang, N., Z. Du, Q. Li, K. Ho, H. Lutgen, A. Ahmad, J. Uyeda, J. Silva, and **T. Lau**.

Title of Grant: Deciphering the secret of pharmaceutical and nutraceutical compounds in traditional Pacific Island crops and endemic Hawaiian plants by metabolomic and transcriptomic analysis

Source of Grant: College of Tropical Agriculture and Human Resilience

Total Dollar Value: \$92,392

Dates of Grant: 2024 – 2025

Role: CoPI

Investigators: Arinaga, P, M. Garrity, A. Higa, K. Ho, K. Kane, **T. Lau**, J. Levinson, N. Lincoln, L. Marten, R. Quinn, T. Radovich, S. Reis-Moniz, **A. Ricordi**, P. Rutkowski, L. Thielen, M. Vickery, and N. Van der Lee.

Title of Grant: Trees for People: Growing an Urban Community Food & Native Forest

Source of Grant: USDA Forest Service Urban and Community Forestry

Total Dollar Value: \$5,000,000 (\$413,000)

Dates of Grant: 2025 – 2029. (Pending)

Role: CoPI

Investigators: **Lau, T.** and E. Horn.

Title of Grant: 2024 Arbor Day Grafted Tree Giveaway at the Urban Garden Center

Source of Grant: USDA Forest Service Division of Forestry and Wildlife, Kaulunani Urban and Community Forestry Program

Total Dollar Value: \$4,570

Dates of Grant: 2024

Role: PI

### **Presentations at Conferences**

Title: Developing a CRB-Safe Composting Method

Authors: **Lau, T.** and B. McCann.

Conference: Invasive Pest Conference 2023

Location: Honolulu, Hawaii.

Date: August 2023