

Jensen Uyeda
College of Tropical Agriculture and Human Resources
Tropical Plant and Soil Science
FTE Distribution: 100% E

Education

<u>Degree</u>	<u>University</u>	<u>Major</u>
Bachelors	University of Hawaii at Manoa	Tropical Horticulture
Masters	University of Hawaii at Manoa	Tropical Horticulture

Professional Appointments

<u>Title</u>	<u>Employer</u>	<u>Dates Employed</u>
Associate Extension Agent	University of Hawaii at Manoa	2021-present
Assistant Extension Agent	University of Hawaii at Manoa	2015-2021
Junior Extension Agent	University of Hawaii at Manoa	2012-2015

Publications (reverse chronological order)

Books

Wang, K.H., J. Uyeda, J. Sugano. Banana Pest Management in the Tropical Pacific: A Guidebook for Banana Growers. 2018. <https://cms.ctahr.hawaii.edu/wangkh/Research-and-Extension/Banana-IPM/Banana-IPM-Guidebook>

Book Chapters

Ahmad, A., T. Radovich, H. Nguyen, J. Uyeda, A. Arakaki, J. Cadby, R. Paull, J. Sugano, and G. Teves. Organic Fertilizer: Use of Organic Fertilizers to Enhance Soil Fertility, Plant Growth and Yield in a Tropical Environment. InTech Open Publisher. 2016.

Refereed Journal Publications

Stockton, D., P. Follett, J. Uyeda, T. Matsumoto. Organic Insecticide Management of Avocado Lace Bug on Hybrid ‘Sharwil’ Avocado, 2022. Arthropod Management Tests. (Submitted October 2022)

Tavares, K., E. Kirk, S. Wages, J. Calpito, J.P. Bingham, A. Ahmad, K. Flanagan, J. Uyeda, M. Kantar, T. Radovich. Genotypic and Environmental Influence on fresh Rhizome Yield of Turmeric (*Curcuma longa* L.). Journal of Agronomy. October 2022

Pugh, M., J. Uyeda, K.-H. Wang, and I. Shikano. A naturalized weed, *Lepidium virginicum*, in Hawaii attracts the diamondback moth and its natural enemies. Journal of Biological Control. July 2022.

Klair, D., S. Dobhal, A. Ahmed, Z. Hassan, J. Uyeda, J. Silva, K.-H. Wang, S. Kim, A. Alvarez, and M. Arif. Exploring Taxonomic and Functional Microbiome of Hawaiian Stream and Spring Irrigation Water Systems Using Illumina and Oxford Nanopore Sequencing Platforms. American Society for Microbiology. July 2022.

Waisen, P., K.-H. Wang, J. Uyeda, and R. Meyers. Effects of Fluopyram and Azadirachtin on Plant-Parasitic and Free-Living Nematodes on Zucchini, Tomato, and Sweet Potato. Journal of Nematology. September 2020. (Submitted)

Boluk, G., E. Arizala, J. Ocenar, J. Mokwele, J. Silva, S. Dobhal, J. Uyeda, A. Alvarez and M. Arif. First Report of Pectobacterium Brasiliense Causing Soft Rot on Brassica oleracea var. sabellica L. in Hawaii, United States. May 2020. Plant Disease. <https://apsjournals.apsnet.org/doi/pdf/10.1094/PDIS-04-20-0701-PDN>

Arizala, D. S. Dobhal, S. Paudel, G. Boluk, J. Silva, A. Ahmad, J. Uyeda, J. Sugano, A. Alvarez, and M. Arif. First Report of Pectobacterium brasiliense Causing Bacterial Soft Rot and Blackleg Disease of Potato in Hawaii. April 2020. Plant Disease. <https://apsjournals.apsnet.org/doi/pdf/10.1094/PDIS-02-20-0395-PDN>

Sugano, J., S. Fukuda, S. Swift, S. Nakamoto, A. Kawabata, R. Hamasaki, M. Diaz-Lyke, J. Uyeda, R. Shimabuku,

K. Sewake, A. Kawabata, S. Motomura, R. Tsutsui, A. Arakaki, B. Bushe, C. Tamaru, T. Radovich, K. Wang, M. Kawate, J. Uchida, and B. Fox. 2013. LIFE (Local and Immigrant Farmer Education) in Hawaii. Rural Connections

Extension Publications

Uyeda, J., K. Tavares, R. Paull, S. Wages, L. Baligad. Garlic Production Guides for Hawaii. CTAHR Cooperative Extension Service VRC-123. October 2022.

Kawabata, A., J. Uyeda, M. Miyahira, R. Gutierrez-Coarite, S. Sand, S. Nakamoto. Sprayer Calibration with Handheld Sprayer Systems for Orchard Crops. CTAHR Cooperative Extension Services PRRE-10. November 2022.

Wang, K.-H., J. Uyeda, and A. Ahmad. Evaluation of Conventional and Organic Insecticides Against Avocado Lace Bug in Hawaii. CTAHR Cooperative Extension Service IP-51. March 2022.

Uyeda, J., M. Kawate, J. Coughlin, J. Kam, J. Sugano, S. Fukuda, R. Shimabuku, and K.-H. Wang. Sprayer Calibration Using the 1/128th Method for Motorized Backpack Mist Sprayer Systems. CTAHR Cooperative Extension Service PRRE-9. <http://www.ctahr.hawaii.edu/oc/freepubs/pdf/PRRE-9.pdf>

Uyeda, J., J. Sugano, S. Fukuda, T. Radovich, A. Pant, H. Valenzuela. 2014. Evaluation of Romaine Lettuce Varieties for Commercial Production in Hawaii 2011-2014. CTAHR Cooperative Extension Services VC-3. <https://www.ctahr.hawaii.edu/oc/freepubs/pdf/VC-3.pdf>

Uyeda, J., J. Sugano, S. Fukuda, M. Kawate, R. Shimabuku, and K.-H. Wang. 2013. Sprayer Calibration Using the 1/128th Method for Boom Spray Systems. CTAHR Cooperative Extension Service PRRE-8. <http://www.ctahr.hawaii.edu/oc/freepubs/pdf/PRRE-8.pdf>

Uyeda, J., J. Sugano, S. Fukuda, M. Kawate, R. Shimabuku, and K.-H. Wang. 2013. Sprayer Calibration Using the 1/128th Method for Handheld Spray Gun Systems. CTAHR Cooperative Extension Service PRRE-7. (available online: <http://www.ctahr.hawaii.edu/oc/freepubs/pdf/PRRE-7.pdf>)

Uyeda, J., J. Sugano, M. Chou, S. Fukuda, J. Uchida, M. Melzer, D. Tsuda, K. Wang, and M. Kawate. Major Basil in Hawaii. Three Economically Important basil Pest as of 2012. October 2012. CTAHR Cooperative Extension Service PD-92. (Chinese) <http://www.ctahr.hawaii.edu/oc/freepubs/pdf/PD-92-1-Chinese.pdf>

Uyeda, J., J. Sugano, M. Chou, S. Fukuda, J. Uchida, M. Melzer, D. Tsuda, K. Wang, and M. Kawate. Major Basil in Hawaii. Three Economically Important basil Pest as of 2012. October 2012. CTAHR Cooperative Extension Service PD-92. <http://www.ctahr.hawaii.edu/oc/freepubs/pdf/PD-92.pdf>

Sugano, J., M. Melzer, A. Pant, T. Radovich, S. Fukuda, S. Migita, and J. Uyeda. 2011. Field Evaluation of Tomato Yellow Leaf Curl Virus Resistant Varieties for Commercial Production. CTAHR Cooperative Extension Service PD-78. <http://www.ctahr.hawaii.edu/oc/freepubs/pdf/PD-78.pdf>

Uyeda, J., L. Cox, and T. Radovich. An Economic Comparison of Commercially Available Organic and Inorganic Fertilizers for Hydroponic Lettuce Production. 2011. CTAHR Cooperative Extension Service SA- 5. <http://www.ctahr.hawaii.edu/oc/freepubs/pdf/SA-5.pdf>

Leadership Roles (Committees, Boards, Advisory, etc.)

Western Sustainable Agriculture Research and Education State PDP Co-Coordinator
Epsilon Sigma Phi, President

Grant Support

Title of Grant: University of Hawaii Transition Organic Partnership Program. California Certified Farmers Inc.

Source of Grant: USDA

Total Dollar Value: \$375,000

Dates of Grant: 2023-2027

Role: CoPI

Title of Grant: Revitalizing Soil Health and Crop Productivity with Biochar Produced from Invasive Species.

Source of Grant: USDA

Total Dollar Value: \$149,961

Dates of Grant: 2023-2026

Role: CoPI

Title of Grant: Supporting Organic Food Crop Production through the Washington Place Organic Garden

Source of Grant: HDOA

Total Dollar Value: \$75,000.

Dates of Grant: 2023-2024

Role: CoPI

Title of Grant: Conservation of Green Lacewings in Avocado Groves to Suppress Avocado Lace Bug Populations

Source of Grant: USDA

Total Dollar Value: \$40,000

Dates of Grant: 2023-2025

Role: CoPI

Title of Grant: Educating Hawaii's Producers, Farmworkers, and Pesticide Handlers About Safe Pesticide Use to Reduce Risks

Source of Grant: USDA

Total Dollar Value: \$99,999

Dates of Grant: 2023-2024

Role: CoPI

Title of Grant: Developing Clonal Rootstocks for Hawaii's Cacao Growers and Researchers

Source of Grant: HDOA

Total Dollar Value: \$17,291.86

Dates of Grant: 2022-2023

Role: PI

Title of Grant: Developing a Web-Based Mapping Platform for Cropland Rating and Optimum Crop Selection

Source of Grant: HDOA

Total Dollar Value: \$199,218

Dates of Grant: 2023-2024

Role: CoPI

Title of Grant: Increasing Hawai'i Access to Garlic Planting Material and Value-Added Products.

Source of Grant: HDOA

Total Dollar Value: \$40,000

Dates of Grant: 2023-2025

Role: PI

Title of Grant: Hawai'i Climate Smart Commodities: A Portfolio Approach to Equitably Scaling the Agriculture Sector

Source of Grant: USDA

Total Dollar Value: \$11,267,322

Dates of Grant: 2022-2027

Role: CoPI

Title of Grant: Increasing the Number of Sweet Potato Storage Roots to Increase the Yield of Sweet Potato Crops in Hawaii

Source of Grant: HDOA

Total Dollar Value: \$40,000

Dates of Grant: 2023-2025

Role: CoPI

Title of Grant: Regenerating Soil Health through Shelterbelt Planting, Sheet Mulching and Tree Mulch Plant-Available Nitrogen Calculator.

Source of Grant: USDA

Total Dollar Value: \$771,441.70

Dates of Grant: 2023-2028

Role: CoPI

Title of Grant: GoFarm Hawaii (GFH): Growing Hawaii's Agricultural Workforce and Industry

Source of Grant: USDA

Total Dollar Value: \$440,984

Dates of Grant: 2022-2025

Role: CoPI

Title of Grant: Support Development of the Western Cover Crops Council and Enhance Cover Crop Educational Resources and Adoption in the Western U.S.

Source of Grant: USDA

Total Dollar Value: \$26,149

Dates of Grant: 2022-2023

Role: CoPI

Title of Grant: Limited-English and Immigrant Farmer Education (LIFE): Improving Access to Support Services for Hawaii's Agricultural Population with Limited English Proficiency

Source of Grant: USDA

Total Dollar Value: \$743,667

Dates of Grant: 2022-2025

Role: CoPI

Title of Grant: Evaluating Garlic Production in Hawaii County.

Source of Grant: County of Hawaii Dept of Research and Development

Total Dollar Value: \$23,728

Dates of Grant: 2021-2022

Role: CoPI

Title of Grant: Increasing Hawai'i Access to Garlic Planting Material and Value-Added Products.

Source of Grant: HDOA.

Total Dollar Value: \$40,000.

Dates of Grant: 2023-2025.

Role: PI

Title of Grant: Research, Extension, and Education Activities to Improve Sustainable and Organic Farming in Hawaii.

Source of Grant: HDOA,

Total Dollar Value: \$49,500.

Dates of Grant: 2021-2022

Role: Co-PI

Title of Grant: Evaluating Garlic Production in Hawaii County.

Source of Grant: Hawaii County.

Total Dollar Value: \$21,200.

Dates of Grant: 2022-2023.

Role: Co-PI

Title of Grant: Expanding Availability of High Yielding Mamaki Varieties for Better Selection by Hawaii's

Growers.

Source of Grant: HDOA.

Total Dollar Value: \$55,000.

Dates of Grant: 2022-2024

Role: Co-PI

Title of Grant: Engaging Asian American and Pacific Islander (AAPI) Grower Educational Needs for Safe Fruit & Vegetable Production in HI & CA.

Source of Grant: USDA

Total Dollar Value: \$550,000

Dates of Grant: 2021-2024

Role: Co-PI

Title of Grant: A Unified Proposal for National Clean Plant Network-Sweetpotato for 2021-2022.

Source of Grant: USDA

Total Dollar Value: \$40,000

Dates of Grant: 2021-2022

Role: Co-PI

Title of Grant: Develop Technical Information to Support Implementation of Long-Term Ground Cover in Orchard or Trellis Agroecosystems.

Source of Grant: USDA.

Total Dollar Value: \$60,488.18.

Dates of Grant: 2021-2023

Role: Co-PI

Title of Grant: Sustainable Pest Management Strategies Against Sweetpotato Weevil in Hawaii.

Source of Grant: Western Sustainable Agriculture Research and Education

Total Dollar Value: \$350,000

Dates of Grant: 2021-2024

Role: Co-PI

Title of Grant: SARE State Implementation Grant 2021 for Hawaii.

Source of Grant: Western Sustainable Agriculture Research and Education

Total Dollar Value: \$90,000

Dates of Grant: 2021-2024

Role: PI

Title of Grant: Forecasting Daily Reference Evapotranspiration and Rainfall for Water Resources Conservation and Sustainable Agriculture.

Source of Grant: USDA

Total Dollar Value: \$900,000

Dates of Grant: 2020-2023

Role: Co-PI

Title of Grant: Expanding the Market for Organically Produced Hawaiian Ginger with High Gingerol Content Varieties.

Source of Grant: Hawaii Department of Agriculture

Total Dollar Value: \$40,000

Dates of Grant: 2020-2022

Role: Co-PI

Title of Grant: Promotion of Off-season Mango Production to Meet Increased Market Demand for Local Produce.

Source of Grant: Hawaii Department of Agriculture

Total Dollar Value: \$40,000

Dates of Grant: 2020-2022

Role: PI

Title of Grant: Building Competencies in Hawaii's Agriculture Professionals and Stakeholders in Under-Represented Ag Communities Through Collaborative Partnerships.

Source of Grant: Western Sustainable Agriculture Research and Education

Total Dollar Value: \$40,000

Dates of Grant: 2019-2022

Role: Co-PI

Title of Grant: Increasing Production of Yellow Potatoes in Hawaii.

Source of Grant: Hawaii Department of Agriculture

Total Dollar Value: \$19,999

Dates of Grant: 2019

Role: PI

Title of Grant: Immigrant Farmer Support Program – Translation Services.

Source of Grant: CTAHR Supplemental

Total Dollar Value: \$23,450

Dates of Grant: 2019

Role: Co-PI

Title of Grant: Evaluating Vegetable, Fruit and other Specialty Crop Varieties for the Diverse Cropping Systems on Oahu.

Source of Grant: CTAHR Supplemental

Total Dollar Value: \$11,510

Dates of Grant: 2019

Role: Co-PI

Title of Grant: Agricultural Workforce Project.

Source of Grant: Maui County

Total Dollar Value: \$11,209

Dates of Grant: 2019-2020

Role: Co-PI

Title of Grant: Implementing Soil Management Strategies and Soil Testing Technologies to reduce Nutrient Loading and Increase Soil Health for Intensive Farms on Oahu.

Source of Grant: Hawaii Dept of Health

Total Dollar Value: \$349,518.14

Dates of Grant: 2019-2021

Role: Co-PI

Title of Grant: Crop-Specific Fertilizer Schedules to Improve Nitrogen Fertilizer Management for High-Value, Short-Season Vegetables and Herbs on Oahu.

Source of Grant: CTAHR Supplemental

Total Dollar Value: \$78,112.48

Dates of Grant: 2019-2020

Role: Co-PI

Title of Grant: Hawaii Integrated Pest Management Program for Diamondback Moth and Other Lepidopteran Pest on Crucifers.

Source of Grant: Hawaii Dept of Agriculture

Total Dollar Value: \$49,500

Dates of Grant: 2019-2020

Role: Co-PI

Title of Grant: Selecting Green Bean and Pigeon Pea Varieties for Market Preference, Value-added Products, and

Other Benefits.

Source of Grant: Hawaii Dept of Agriculture

Total Dollar Value: \$40,000

Dates of Grant: 2019-2021

Role: Co-PI

Title of Grant: Expanding the Market for Hawaiian Turmeric with High Yielding and High Curcumin Varieties.

Source of Grant: Hawaii Dept of Agriculture

Total Dollar Value: \$40,000

Dates of Grant: 2019-2021

Role: Co-PI

Title of Grant: Farm Food Safety Training for Local and Immigrant Crop Producers.

Source of Grant: Hawaii Dept of Agriculture

Total Dollar Value: \$20,000

Dates of Grant: 2019-2021

Role: Co-PI

Title of Grant: Planting Techniques for Increasing Locally Produced Corm and Bulb Spices in the Pacific.

Source of Grant: Hawaii Dept of Agriculture

Total Dollar Value: \$40,000

Dates of Grant: 2019-2021

Role: PI

Title of Grant: SARE State Implementation Grant 2019 for Hawaii.

Source of Grant: Western Sustainable Agriculture Research and Education

Total Dollar Value: \$30,000

Dates of Grant: 2018-2020

Role: PI

Title of Grant: Western Regional Center to Enhance Food Safety Continuation

Source of Grant: NIFA

Total Dollar Value: \$9,999

Dates of Grant: 2018-2021

Role: PI

Title of Grant: Virtually There: Enhancing the Online Capacity and Impact of Hawaii Agricultural Professionals.

Source of Grant: Western Sustainable Agriculture Research and Education

Total Dollar Value: \$24,965

Dates of Grant: 2018-2019

Role: PI

Presentations at Conferences

Title: Evaluating diverse turmeric (*Curcuma longa*) cultivars for commercial production in Hawaii.

Authors: Kirk E., K. Tavares, J. Calpito, S. Wages, J.-P. Bingham, A. Ahmad, **J. Uyeda**, E. Collier and T. Radovich,

Name of Conference: ASHS Annual Conference

Location: Chicago, Illinois

Date of Presentation: August 2022

Title: Evaluating Garlic Varieties for Production in Hawaii

Authors: Tavares K., S. Wages, S. Sand, A. Kawabata, L. Baligad and **J. Uyeda**.

Name of Conference: ASHS Annual Conference

Location: Chicago, Illinois

Date of Presentation: August 2022

Title: Use of Rooting Hormone to Enhance Cutting Propagation of Breadfruit

Authors: Uyeda, J., T. Radovich, L. Baligad, and E. Collier.

Name of Conference: ASHS Annual Conference

Location Chicago, Illinois

Date of Presentation: August 2022

Title: Insecticide Resistance Monitoring and Management of Diamondback Moth, *Plutella xylostella*, In Hawaii and Taiwan.

Authors: Chou, M.Y.*, R. Shimabuku, J. Sugano, J. Uyeda, R. Hamasaki, K. Tavares, J. Silva, Y.B. Huang, C.H. Kao and R. Mau

Name of Conference: 8th International DBM Conference at Tainan

Location: Tainan, Taiwan

Date of Presentation: March 2019

Title: Comparison of Organic Fertilizers to Produce Ginger (*Zingiber officinale*) in Pots.

Authors: Motomura, S.*, K. Tavares, J. Silva, J. Uyeda

Name of Conference: ASHS 2019 Annual Conference

Location: Las Vegas, Nevada

Date of Presentation: July 2019

Title: Pre-Emergent Herbicides and Hand Weeding for Perennial and Annual Weed Management in Hawaii Green Onion Field Systems..

Authors: Silva, J.*, J. Uyeda, K.H. Wang, J. Sugano, A. Ahmad

Name of Conference: ASHS 2019 Annual Conference

Location: Las Vegas, Nevada

Date of Presentation: July 2019

Title: Yield and Quality of Turmeric and Related Germplasm on Maui.

Authors: Tavares, K.*, T. Radovich, J.P. Bingham, J. Calpito, A. Ahmad, E. Kirk, G. Teves, S. Motomura, J. Silva, J. Uyeda, J. Sugano, L. Nakamura-Tengan

Name of Conference: ASHS 2019 Annual Conference

Location: Las Vegas, Nevada

Date of Presentation: July 2019

Title: Effects of Automated Soil Moisture Based Irrigation on Yield of Three Cultivars of Taro (*Colocasia esculenta*).

Authors: Uyeda, J.*, T. Radovich, J. Sugano, S. Motomura, and A. Ahmad

Name of Conference: ASHS 2019 Annual Conference

Location: Las Vegas, Nevada

Date of Presentation: July 2019

Title: Evaluating

Manganese Toxicity of Lettuce Grown in Oxisol Soils with Low pH.

Authors (put an asterisk on the presenter): Uyeda, J.*, A. Ahmad, S. Motomura, J. Sugano and S. Miyasaka

Name of Conference: ASHS 2019 Annual Conference

Location: Las Vegas, Nevada

Date of Presentation: July 2019

Title: The Effects of Biochar Application on Soil Health and Legume Crop's Growth and Yield in Hawaii.

Authors: Ahmad, A.*, H. Nguyen, T. Radovich, K.H. Wang, J. Sugano, J. Uyeda, S. Motomura, J., Silva, K. Tavares.

Name of Conference: ASHS 2019 Annual Conference

Location: Las Vegas, Nevada

Date of Presentation: July 2019