

Joanna B. Bloese

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University of Hawaii at Manoa
College of Tropical Agriculture and Human Resources (CTAHR)
Plant and Environmental Protection Services
60% Extension, 40% Research, 0% Instruction

EDUCATION:

<u>Degree</u>	<u>Date</u>	<u>University</u>	<u>Major</u>
B.Sc.	2009-2013	California State Univ, Chico	Agriculture, minors in Italian and Glassblowing
M.Sc.	2014-2017	University of Calif., Davis	Entomology
Ph.D.	2017-2019	University of Calif., Davis	Entomology

PROFESSIONAL APPOINTMENTS:

<u>Title</u>	<u>Employer</u>	<u>Dates Employed</u>
Assistant Extension Specialist	University of Hawaii at Manoa	March 2020 to present

TEACHING:

Courses Taught			
<u>Course ID</u>	<u>Credits</u>	<u>Semester/Year</u>	<u>No of Students</u>
<u>Undergraduate Courses:</u>			
ENT 1	3	Spring 2018	31
ENT 1	3	Spring 2017	26
ENT 298	2	Winter 2017	15
ENT 1	3	Spring 2016	29
BIS 2b	4	Fall 2015	35
ENT 1	3	Spring 2015	60
<u>Graduate Courses:</u>			
ENT 498	3	Spring 2018	12
Guest Lectures:			
AG 100	3	Fall 2021	35
PEPS 410	3	Spring 2021	20
GE Design Team	NA	Summer 2021	25
Excellence in Teaching Fellows	NA	Fall 2021	10

Post-doctoral Students

Entomology/ Microbiology appointment: Dr. Vivek Rampaju - June 1, 2022 - Present

Entomology/ Chemical Ecologist appointment: Dr. TaeHyung Kwon – Aug 1, 2022 - Present

PUBLICATIONS:

Book Chapters

N/A

Conference Proceedings and Presentations

1. **Bloese, J.B.**, Galanti, R., Dong, C., and Suzuki, J. 2024. Silicon's dynamic role in the trade-off between increasing yield versus plant protection in monopodial and sympodial orchids. Pacific Branch Entomological Society of America (ESA). April 15, 2024. Waikoloa, HI, USA. Poster number: 162732
2. Dong H. Cha, Arooran Kanagendran, Vivek Kempraj, Todd Shelly, Paul E. Kendra, Xiangbing Yang, and **Joanna Bloese**. 2024. Developing new female attractants for improved monitoring of *Bactrocera dorsalis*. XXVII International Congress of Entomology 2024. Japan. Abstract Submitted. Submission No. C001032.
3. **Bloese, J.B.** & Wright, M. 2023. Hawaii Extension Implementation Project. WERA 1017. Sept. 6. 2023. Homer, AK, USA.
4. **Bloese, J.B.** 2023. The beneficial effects of soluble silicon fertilizer as an Integrated Pest Management (IPM) tool on epiphytic plants in Hawaii floriculture industry. Pacific Branch Entomological Society of America (ESA). April 4, 2023. Seattle, WA.
5. McCarty, C. & **Bloese, J.B.** 2023. Examining the effects of soluble silicon fertilizer on *Fusarium spp.* in Hawaii *Dendrobium* orchid. Pacific Branch Entomological Society of America (ESA). April 4, 2023. Seattle, WA.
6. **Bloese, J.B.** & Wright, M. 2022. Hawaii Update. 10th International IPM Symposium: WERA 1017 – 2022. Denver, CO, USA. Feb.28- March 1. <https://ipmsymposium.org/2022/program.html>
7. Porter, R., Lichty, J., Galanti, R. and **Bloese, J.B.** 2021. Utilizing soluble silicon fertilizer to augment traditional Integrated Pest Management (IPM) programs for Hawaii dendrobium growers. [abstract] In Proceedings of the Pacific Branch of Entomological Society of America Branch Meeting; 2021 April 5-7; Virtual EAS, 2021. Abstract nr. 154219 <https://esa.confex.com/esa/2021eb/meetingapp.cgi/Search/0?sort=Relevance&size=10&page=1&searchterm=Bloese>
8. Kow, T., DuPonte, M., and **Bloese, J.B.** 2021. Examining the effects of a novel biostimulant on production parameters and pest complexes in Hawaii anthuriums. . Pacific Branch Entomological Society of America (ESA). Virtual. <https://esa.confex.com/esa/2021eb/meetingapp.cgi/Search/0?sort=Relevance&size=10&page=1&searchterm=Bloese>
9. **Bloese, J.B.**, & Lichty, J. 2020. Silicon-mediated anthurium and dendrobium plant resistance to Thrips palmi (Thysanoptera: Thripidae): Effects of silicon amendment as an integrated pest management tool. Entomological Society of America (ESA), Annual Meeting, Virtual. <https://www.eventscribe.com/2020/entomology2020/searchGlobal.asp>
10. **Bloese, J.B.** 2019. “Understanding Evolution and the Origin of Species in the Art Studio” (10 minute podium presentation). Clubes de Ciencia and Tres Art Collection collaboration to form Where Art Technology and Science (WATS) meet. Conference, workshop & retreat.
11. **Bloese, J.B.** 2019. Symposium Organizer. Innovative Technologies and Methods in Integrated Pest Management. Entomological Society of America (ESA) Pacific Branch Meeting, San Diego, CA. Proposed,

planned, organized, moderated for 8 speakers at

symposium. <https://esa.confex.com/esa/2019pb/meetingapp.cgi/Session/35335>

12. **Bloese, J.B.**, Goding, K., Gofrey, L.D. 2019. "Insights into the practical use of biological controls in California rice". (20 minute podium presentation) Entomological Society of America (ESA) Pacific Branch Meeting, San Diego, CA. <https://esa.confex.com/esa/2019pb/meetingapp.cgi/Paper/141746>

13. **Bloese, J.B.**, Afzal, M. 2018. 287:10-min: P-IE, IPM, Field Crops. Moderator. Entomological Society of America (ESA), Annual Meeting. <https://esa.confex.com/esa/2018/meetingapp.cgi/Session/33922>

14. **Bloese, J.B.**, Goding, K.M, Godfrey, L.D. 2018. "Exploring the relationship between temperature and growth rate for tadpole shrimp (*Triops longicaudatus*) and its implications for California rice farmers." (10 minute podium presentation) Entomological Society of America (ESA) Annual Meeting, Vancouver, British Columbia, Canada. <https://esa.confex.com/esa/2017/meetingapp.cgi/Paper/125546>

15. **Bloese, J.B.**, 2018. "A retrospective examination of Integrated Pest Management of Tadpole shrimp (*Triops longicaudatus*) in California rice." (60 minute podium presentation) **Essig Entomology Seminar Series, University of California, Berkeley.**

16. **Bloese, J.B.**, Goding, M., Espino, L., & Godfrey, L.D. 2018. "Understanding field dynamics of using mosquito fish (*Gambusia* spp.) and predatory beetles (hydrophilid & dytiscid spp.) as biocontrols on tadpole shrimp (*Triops longicaudatus*) in California rice." (12 minute podium presentation) Entomological Society of America (ESA) Pacific Branch Meeting, Reno, NV. https://www.entsoc.org/sites/default/files/files/2018_Pacific_Branch_Meeting_Program_Book.pdf. Pg.27.

17. **Bloese, J.B.**, 2017. "Evaluating new chemical and biological management tactics for Tadpole shrimp (*Triops longicaudatus*) in California rice." (10 minute podium presentation) Entomological Society of America (ESA) Annual Meeting, Denver, CO. <https://esa.confex.com/esa/2017/meetingapp.cgi/Search/0?sort=Relevance&size=10&page=1&searchterm=Bloese>

18. **Bloese, J.B.**, Espino, L., Goding, M., & Godfrey, L.D. 2017. "Fire or Flood: what is their effect on tadpole shrimp (*Triops longicaudatus*)?" (Lightning talk, 3 minute podium presentation) Entomological Society of America (ESA) Annual Meeting, Denver, CO. <https://esa.confex.com/esa/2017/meetingapp.cgi/Paper/125600>

19. **Bloese, J.B.** 2017. Bottom-Up Control Tactics - **The Foundation & Future of IPM Symposium**. (20 minute podium presentation) "An alternative perspective to the bottom-up approach in IPM research management." Entomological Society of America (ESA) Pacific Branch Meeting, Portland, OR https://www.entsoc.org/sites/default/files/files/2017_PB_Program_Book.pdf pg. 23 & 28.

20. **Bloese, J.B.**, Espino, L., Goding, K., & Godfrey, L.D. 2017. "Fire or Flood: The efficacy of cultural management practices on tadpole shrimp (*Triops longicaudatus*) populations dynamics in California rice." (10 minute podium presentation) Entomological Society of America (ESA) Pacific Branch Meeting, Portland, OR. https://www.entsoc.org/sites/default/files/files/2017_PB_Program_Book.pdf pg. 23 & 28.

21. Godfrey, L.D., Espino, L., Mohammad-Amir, A., **Bloese, J.B.**, and Goding, K.M. 2016. "New IPM tactics and tools for management of key invertebrate pests in Californian rice." In 2016 International Congress of Entomology. ESA. <https://www.entsoc.org/sites/default/files/ICE-2016-Program-Book.pdf> pg. 192. & 449.

22. **Bloese, J.B.**, Espino, L., Goding, K., Rice, S., & Godfrey, L.D. 2016. "Developing a monitoring protocol using geostatistical Kriging to characterize the spatial distribution of tadpole shrimp (*Triops longicaudatus*) in California rice fields. (15 minute podium presentation). International Congress of Entomology, Orlando, FL. <https://www.entsoc.org/sites/default/files/ICE-2016-Program-Book.pdf> pg. 192. & 449.

23. **Bloese, J.B.**, Espino, L., Goding, K. & Godfrey, L.D. 2015. "Developing integrated pest management

practices for tadpole shrimp (*Triops longicaudatus*) in California rice fields.” (15 minute podium presentation) Entomological Society of America (ESA) Annual Meeting, Minneapolis, MN. https://www.entsoc.org/PDF/2015/2015_ESA_Annual_Meeting_Program.pdf pg. 150.

24. **Bloese, J.B.** 2015. Debate topic: “What is the single best tool for managing insects?” Graduate Student Debates. Entomological Society of America (ESA) Annual Meeting. Minneapolis, MN. (Debate Team. 1st Place in Division, 2nd Place overall). https://www.entsoc.org/PDF/2015/2015_ESA_Annual_Meeting_Program.pdf

25. **Bloese, J.B.**, & Boyd., E. 2013. “Understanding the ecological impact of an unknown predacious mite (*Balaustium* sp., Acari: Erythraeidae) in Northern California almond and walnut orchards.” Entomological Society of America (ESA) Annual Meeting. Poster Presentation, Austin, TX. <https://esa.confex.com/esa/2013/webprogram/Paper78729.html>

26. **Bloese, J.B.** 2013. “Four hands are better than two: Making the case for collaboration as seen through the glass studio”. (Oral presentation) California State University (CSU) State-wide Graduate Research Competition (I was the only undergraduate to present). Qualified for Semi-Finals at California State University Chico, and one of five to qualify for Finals at California State University, Pomona, CA.

27. **Bloese, J.B.**, & Boyd., E. 2012. “Evaluation of captured navel orangeworm, *Amyelois transitella* (Walker) (Lepidoptera: Pyralidae), by a novel kairomone-baited trap.” (15 minute podium presentation) Entomological Society of America (ESA) Annual Meeting, Knoxville, TX. <https://esa.confex.com/esa/2012/webprogram/Paper67599.html>

28. **Bloese, J.B.**, & Boyd, E. 2012. “Efficacy of a novel baited trap at capturing gravid navel orangeworm (*Amyelois transitella*).” (12 minute podium presentation) Entomological Society of America (ESA) Pacific Branch meeting- Portland, OR (**1st Place in Undergraduate Research Competition**). <https://esa.confex.com/esa/2012pb/webprogram/Paper62915.html>

29. **Bloese, J.B.**, & Boyd, E. 2012. “Efficacy of novel baited trap at capturing gravid navel orangeworm (*Amyelois transitella*).” Oral presentation) California State University (CSU) State-wide Graduate Research Competition (I was the only undergraduate to present). Qualified for Semi-Finals at California State University Chico, and one of five to qualify for Finals at California State University, Long Beach.

Refereed Journal Publications

Bloese, J.B. and Galanti R. (2024). Capitalizing on nutrient storage and metabolism of monopodial and sympodial orchids to improve production. *Journal of Integrated Pest Management*. In Prep.

Bloese, J.B. (2024). Contemporary anthropogenic effects on the evolution of long-term fitness strategies: *Triops longicaudatus* LeConte (Notostraca: Triopsidae): A case study. *Evolutionary Applications*. Submitted.

Bloese, J.B. Goding, K.M., and Godfrey L.D. (2024). Biological control options for the management of tadpole shrimp (*Triops longicaudatus* (LeConte)) in California rice. *Agriculture*. 14(7), 1136; <https://doi.org/10.3390/agriculture14071136>

Bloese, J.B., Galanti, R., Porter, R & Kow, T. (2024). The beneficial effects of soluble silicon fertilizer in *Dendrobium* orchids: Silicon-augmented resistance against damage by insect pests and fungal pathogens. *Insects*. 2024, 15(5), 323; <https://doi.org/10.3390/insects15050323>.

Kwon TH, Kim D-B, Kim B, **Bloese J**, Lee B-H, Cha DH. (2024). Ethyl Formate Fumigation against Pineapple Mealybug, *Dysmicoccus brevipes*, a Quarantine Insect Pest of Pineapples. *Insects*. 2024; 15(1):25. <https://doi.org/10.3390/insects15010025>

- Bloese, J.B.,** K. Goding, L.D. Godfrey. (2021). Alternative chemical control options and monitoring techniques for tadpole shrimp (*Triops longicaudatus* LeConte) (Notostraca: Triopsidae) in California rice. *Journal of Econ. Entomol.* [10.1093/jee/toab207](https://doi.org/10.1093/jee/toab207)
- Eng, S., Khun, T., Esquivel, M., Ooki, N., **Bloese, J.**, Sand, S., & Lincoln, N. (2021). Farmers' Perceived Needs of Extension' Support During Covid-19 in Hawai'i. *Journal of Extension*, 59(2), Article 15. <https://doi.org/10.34068/joe.59.02.15>
- Bloese, J.B.,** K. Goding, L.D. Godfrey. (2020). Effect of rice winter cultural management practices on tadpole shrimp, *Triops longicaudatus*, hatch counts. *Journal of Econ. Entomol.* Volume 113, Issue 3, June 2020, Pages 1243–1247, <https://doi.org/10.1093/jee/toaa006>
- Shukla, S, **J. B. Bloese**, T. Ray. (2016). Effect of yield, quality attributes and cost of rice (*Oryza sativa* L.) variety under System of Rice Intensification (SRI) organic and conventional methods of rice cultivation. *International Journal of Scientific and Research Publications.* 6(6):313-316. <http://www.ijsrp.org/research-paper-0616.php?rp=P545488>
- Rosecrance, R., W.H. Krueger, L.K. Milliron, **J.B. Bloese** (2015). Moderate regulated deficit irrigation can increase olive oil yields and decrease tree growth in super high density 'Arbequina' olive orchards. *Journal of Scientia Horticulturae.* Vol. 190:75-82 <https://doi.org/10.1016/j.scienta.2015.03.045>

Extension Publications

1. **Bloese, J.B.,** & R. Galanti 2023. Calculating pesticide rates for your needs. UH-CTAHR. In Review.
2. H. Lutgen, R. Galanti, **J. Bloese**, and L. Keith. 2023. Ornamental Pests of Hawaii: Fungal and nematode associations and symptoms on Protea & Leucospermum spp. UH-CTAHR. <https://www.ctahr.hawaii.edu/oc/freepubs/pdf/OF-60.pdf>.
3. H. Lutgen, R. Galanti, C. Cheng, and **J. Bloese**. 2023. Ornamental Pests of Hawaii: Disease management of Protea and Leucospermum spp. UH-CTAHR. <https://www.ctahr.hawaii.edu/oc/freepubs/pdf/OF-61.pdf>
4. R. Galanti, & **J. Bloese**. 2022. Pesticide Compatibility: Jar testing before tank mixing. UH CTAHR. <https://www.ctahr.hawaii.edu/site/Info.aspx.chromeextension://efaidnbmninnibpcajpcgclclefindmkaj/https://www.ctahr.hawaii.edu/oc/freepubs/pdf/PRRE-11.pdf>
5. McCarty, C. & **Bloese, J.B.** 2021. Harnessing Hilo Botanical Gardens for Grower Outreach and Education. – Landscape Industry Council of Hawaii (LICH) Magazine. May/June 2022 Edition.
6. E. Kirk, S. Sand, **J. Bloese**, R. Gutierrez-Coarite, J. Keach, and S. Eng 2021. COVID-19 Hawaii Agriculture Survey: Initial and On-going Impacts. UH-CTAHR. <https://cms.ctahr.hawaii.edu/soap/Hanai-Ai/ArtMID/40474/ArticleID/2276/Volume-44-Oct-%7C-Nov-%7C-Dec-2021.chrome-extension://efaidnbmninnibpcajpcgclclefindmkaj/https://gms.ctahr.hawaii.edu/gs/handler/getmedia.ashx?moid=70601&dt=3&g=12>
7. **Bloese, J.B.** & Galanti, R. 2021. The Silicon Solution. Landscape Industry Council of Hawaii (LICH) Magazine – November 2021 Edition.
8. **Bloese, J.B.** 2021. Achieving Sustainable and Profitable Agriculture through Natural Farming. – Landscape Industry Council of Hawaii (LICH) Magazine – May 2021 Edition.
9. R. Galanti, J. Hu, A. Larrea-Sarmiento, **J. Bloese**. 2020. Preventing and Controlling Pathogens in Red Ginger (*Alpinia purpurata*) Cut Flower Production: A better management practice guide. UH-CTAHR. <https://www.ctahr.hawaii.edu/oc/freepubs/pdf/OF-53.pdf>

Guest Lectures/Curriculum Presentations:

1. **Bloese, J.B.**, & A. Schiffner. 2022. **Workshop Presentation for Excellence in Teaching Fellows Program. "Interdisciplinarity"**. May, 18, 2022. Virtual/online. Hilo, HI.
2. **Bloese, J.B.** AG 100. 2021. "Landscape diversification and agricultural intensification". Nov. 16, 2021. Virtual/Online. Hilo, HI.
3. **Bloese, J.B.** & A. Schiffner. 2021. **UH Gen Ed Curriculum Design Team**. "Interdisciplinarity: The Past, Present and Future of Higher Education". July, 19, 2021. Virtual/Online. Hilo, HI.
4. **Bloese, J.B.** 2021. CTAHR Dean & Associate Vice President of Academic Programs & Policies. "Incorporating Art-Science Fusion Classes into the General Education curriculum at University of Hawaii at Manoa". May 28th, 2021. Virtual/Online. Hilo, HI.
5. **Bloese, J.B.** 2021. CTAHR Dean & Associate Dean Meeting. "Incorporating Art-Science Fusion Classes into the General Education curriculum at University of Hawaii at Manoa". May 10th, 2021. Virtual/Online. Hilo, HI.
6. **Bloese, J.B.** PEPS 410. 2021. "Exploring the mechanisms involved in silicon-mediated resistance to herbivorous insects and plant pathogens". Feb. 22, 2021. Virtual/Online, Hilo, HI.

Extension & Outreach Presentations

1. **Bloese, J.B.** 2024. "Integrated Pest Management (IPM) for Hawaii Agriculture". Virtual Webinar. June 4, 2024.
2. **Bloese, J.B.** 2024. Incorporating silicon fertilizer into a climate resilient cultivation system. Jan. 30th, 2024. In Person. Ornamental Webinar Series. Komohana Research and Extension Center, Hilo. HI.
3. **Bloese, J.B.** 2023. Big Island Breeders & Growers Forum. Board Participant. Nov. 9, 2023. In Person. Komohana Research and Extension Center, Hilo. HI.
4. **Bloese, J.B.**, 2023. Hawaii Floriculture and Nursery Association (HFNA) Research Webinar. "Ornamental Pest Management Update". Oct.26, 2023. Komohana Research and Extension Center, Hilo, HI.
5. **Bloese, J.B.** 2023. GoFarm. "Integrated Pest Management (IPM) Principles and Concepts. Virtual Webinar. Sept. 26, 2023.
6. **Bloese, J.B.**, 2023. Landscape Industry Council of Hawaii (LICH) Conference. "The beneficial effects of silicon fertilizer as an IPM tool". Sept. 14, 2023. Honolulu Convention Center, Oahu, HI.
7. **Bloese, J.B.** 2023. Nutrien Educational Conference. "The beneficial effects of silicon fertilizer as an Integrated Pest Management (IPM) tool." July, 17, 2023. Hilo Hawaiian Hotel Conference Room. Hilo, HI.
8. **Bloese, J.B.**, 2023. Master Gardeners Class. "Integrated Pest Management for Master Gardeners". May 16, 2023. Keaau, HI.
9. **Bloese, J.B.** 2022. Hawaii Floriculture and Nursery Association (HFNA) Research Seminar. "Significant Export Pests of Hawai'i Ornamentals & Silicon Trial Update." In-person. Komohana Research and Extension Center. Oct. 30, 2022. Hilo, HI.
10. **Bloese, J.B.** 2022. Kona Cacao Association. "Integrated Pest Management for Cacao in Hawaii." Big Island Chocolate Festival. May 13, 2022. In-Person Event, Marriott Waikoloa, HI.

11. **Bloese, J.B.** 2021. Hamakua Harvest INC. IPM class. “IPM: Insect identification, monitoring & management” In-person. July. 17, 2022. Honokaa, HI. [Http://hamakuaharvest.org/](http://hamakuaharvest.org/)
12. **Bloese, J.B.** 2021. Hawaii Floriculture and Nursery Association (HFNA) Grower Board Meeting. “Introduction and how-to presentation on MyIPM app prototype.” Virtual/Online. Nov. 17, 2021. Hilo, HI.
13. **Bloese, J.B.** 2021. CTAHR 1st Annual Ornamental Crop Field Day. “Efficacy of silicon fertilizer for control of thrips in dendrobium”. Oral Presentation. Sept. 30, 2021. Hilo, HI.
14. **Bloese, J.B.** 2021. CTAHR 1st Annual Ornamental Crop Field Day. “Utilization of silicon fertilizer as part of an IPM strategy for thrips management in anthuriums”. Oral Presentation. Sept. 30, 2021. Hilo, HI.
15. **Bloese, J.B.** 2021. Hawai’i Floriculture and Nursery Association (HFNA) Research Seminar. “Resistance management of various thrips pests of Hawaii ornamentals”. Virtual/Online. Sept. 29, 2021. Hilo, HI.
16. **Bloese, J.B.**, Galanti, R., Lutgen, H., & J., Keach. 2021. “Sanitation and cultural management practices of Hawaii floriculture and nursery crops.” Virtual/Online. July, 6, 2021. Hilo, HI.
17. **Bloese, J.B.** 2021. Hawaii Floriculture and Nursery Association (HFNA) Grower Board Meeting. “Examining chemical control options for thrips and examining resistant populations.” Virtual/Online. Feb. 18, 2021. Hilo, HI.
18. **Bloese, J.B.** 2020. Lunch and Learn Presentation. “Bottom-Up Management Strategies and Art-Science Collaborations: What do they have in common?” Virtual/Online. Hilo, HI.
19. **Bloese, J.B.** 2020. Hawai’i Department of Agriculture (HDOA) Pesticide Branch, Research Seminar. “Significant Export Pests of Hawai’i Ornamentals” Virtual/Online. Hilo, HI.
20. **Bloese, J.B.** 2020. Hawai’i Floriculture and Nursery Association (HFNA) Research Seminar. “Preliminary Results of Silicon Trial and Significant Export Pests of Hawaii Ornamentals”. Virtual/Online. Hilo, HI.
21. **Bloese, J.B.**, 2020. Science Café. Clubes de Ciencia. “Approaches and Collaborations in Science Art” Virtual/Online. Hilo, HI.
22. **Bloese, J.B.**, 2020. Lunch and Learn Presentation. “1+1=3: Exploring the synergistic effects of interdisciplinary experimentation & collaboration: application, research & experiences”. Komohana Research and Extension Center (KREC), Hilo, HI.
23. **Bloese, J.B.** 2017. Rice Field Day. Research Poster. “A closer examination of cultural management tactics for tadpole shrimp (*Triops longicaudatus*) in California rice”. Poster & abstract. Rice Field Day Booklet, Rice Experiment Station, Biggs, CA.
24. **Bloese, J.B.** 2017. Rice Growers Meetings. Oral Presentations at several meetings. “Rice Arthropod Update.” Colusa, Willows, Yuba City, and Richvale, CA.
25. **Bloese, J.B.** 2016. Rice Field Day. Research Poster. “Evaluating the effects of chemical and cultural management practices on the population dynamics of tadpole shrimp (*Triops longicaudatus*) in California rice.” Poster & abstract. Rice Field Day Booklet, Rice Experiment Station, Biggs, CA.
26. **Bloese, J.B.** 2015. Rice Field Day. Research Poster. “Exploring factors affecting tadpole shrimp (*Triops longicaudatus*) biology and population dynamics.” Poster & abstract. Rice Field Day Booklet, Rice Experiment Station, Biggs, CA.

CTAHR Notes:

1. **Bloese, J.B.** 2021. CTAHR Notes. “Pest Particulars” – Oct. 5, 2021.
<https://cms.ctahr.hawaii.edu/NewsLetter/ArtMID/52574/ArticleID/2197/Pest-Particulars>
2. **Bloese, J.B.** 2021. CTAHR Notes. “Ornamental Days: Join growers and researchers Sept. 29-30 on the Big Island” – Sept. 20, 2021.
<https://cms.ctahr.hawaii.edu/NewsLetter/ArtMID/52574/ArticleID/2171/Ornamental-Days>
3. **Bloese, J.B.** 2021. CTAHR Notes. “Art-Science Fusion: PEPS Extension participates in Mexican film” – June 22, 2021. <https://cms.ctahr.hawaii.edu/NewsLetter/ArtMID/52574/ArticleID/2117/Art-Science-Fusion>
4. **Bloese, J.B.** 2021. CTAHR Notes. “Less Rejection, More Value: The biosecurity of Hawai’i’s ornamental industry gets federal dollars” – Feb. 9, 2021.
<https://cms.ctahr.hawaii.edu/NewsLetter/ArtMID/52574/ArticleID/1979/Less-Rejection-More-Value>
5. **Bloese, J.B.** 2020. CTAHR Notes. “Mahalo! Hilo Medical Center: Extension researchers donate bouquets for healthcare workers” - <https://cms.ctahr.hawaii.edu/NewsLetter/ArtMID/52574/ArticleID/1947/Mahalo-Hilo-Medical-Center>
6. **Bloese, J.B.** 2020. CTHAR Notes. “AI is Eye-Opening: Mealani Station shares an important technique with CTAHR faculty” – July, 6. 2020 - <https://cms.ctahr.hawaii.edu/fcs/SiteAdm/Alumni-News-Articles/ArtMID/51791/ArticleID/1743>

EXTENSION/OUTREACH EVENTS:

MyIPM App training. Online, Sept. 29, 2023. Hilo, HI.

Several CTAHR Extension Agents & Specialists collaborated with Dr. Angel Acebes-Doria to bring a MyIPM training webinar to over 100 interested growers. Purpose and application of this technology was covered during the presentation as well as a lengthy Q&A afterwards.

Hawaii Floriculture and Nursery Association (HFNA) grower Forums. Nov. 10th, 2023. Komohana Research & Extension Center, Hilo, HI.

Several CTAHR Extension Agents & Specialists joined Nursery growers to record our discussion about current problems within the industry and the best way to address them. Grower forums were conducted on all islands and issues summarized across entire industry.

Hawaii Floriculture and Nursery Association (HFNA) Grower’s Import Replacement Educational Research Seminar. Thursday, October 26th. UH-CTAHR Komohana Research & Extension Center. Hilo, HI.

Over 10 presentations from scientists and growers in the Floriculture and Nursery industry from USDA ARS, CTAHR Extension Agents and Specialists, HDOA and prominent growers.

Cut Foliage Eucalyptus Field Day: Kauai. April 24, 2023. Kauai Agricultural Research and Extension Station

As part of a Specialty Crop Block Grant to improve eucalyptus production due to the recent ban of Myrtaceae by HDOA. Extension agents and specialists hosted field day events as part of an import replacement program. Presentations and eucalyptus seedling distributions occurred at each event.

Maui CTAHR CES Eucalyptus Seminar and Plant Distribution. April 10, 2023. Kahalui Cooperative Extension Office

As part of a Specialty Crop Block Grant to improve eucalyptus production due to the recent ban of Myrtaceae by HDOA. Extension agents and specialists hosted field day events as part of an import replacement program. Presentations and eucalyptus seedling distributions occurred at each event.

CTAHR Cooperative Extension Oahu Island Eucalyptus Trial Seminar and Field Day. March 6, 2023. Pearl City Urban Garden Center and Leeward Community College.

As part of a Specialty Crop Block Grant to improve eucalyptus production due to the recent ban of Myrtaceae by HDOA. Extension agents and specialists hosted field day events as part of an import replacement program. Presentations and eucalyptus seedling distributions occurred at each event.

Hawaii Floriculture & Nursery Association (HFNA) Wedding Celebration Webinar. Nov. 5th, 2022. Komohana Research & Extension Center, Hilo, HI.

A virtual presentation of the previous in-person event. All events were recorded and re-played for the three day webinar with question and answers after each video. This included live breeders and Extension agents/specialists and grower's forum, nursery tours, and floral designs created by eleven floral designers including featured designers Tim Farrell AIFD, Bruno Durante of Toronto, Susan McCleary of Passion Flowers, Canadian guest Brenna Quan AIFD, Hawaiian Island designers (Lois Hiranaga, Dottie Yadao, Sue Tabbal, and Lia Mercado) and a hands-on workshop with Hitomi Gilliam AIFD

Hawaii Floriculture & Nursery Association (HFNA) Wedding Celebration. Oct. 6th, 7th & 8th, 2022. Hilo Hawaiian Hotel, Hilo, HI.

This in-person event included live breeders and Extension agents/specialists and grower's forum, nursery tours, and floral designs created by eleven floral designers including featured designers Tim Farrell AIFD, Bruno Durante of Toronto, Susan McCleary of Passion Flowers, Canadian guest Brenna Quan AIFD, Hawaiian Island designers (Lois Hiranaga, Dottie Yadao, Sue Tabbal, and Lia Mercado) and a hands-on workshop with Hitomi Gilliam AIFD.

Building and Maintaining a Hollyhock Thrips (*Pseudophilothrips varicornis*) colony in Hawai'i. CTAHR Ornamental Extension Educational Videos. Sept. 22, 2022.

Undergraduate student, Tiani Kow & Tyler Trenton and Advisor Joanna Bloese create a methods video instructing colleagues on building and maintaining a hollyhock thrips colony in humid conditions.

Hawaii Floriculture & Nursery Association (HFNA) Research Webinar. Sept. 16th, 2022. Komohana Research & Extension Center, Hilo, HI.

Over 12 presentations from scientists and growers in the Floriculture and Nursery industry from USDA ARS, CTAHR Extension Agents and Specialists, HDOA and prominent growers.

Hawaii Floriculture & Nursery Association (HFNA) Grower's Forum. Aug. 12th, 2022. Komohana Research & Extension Center, Hilo, HI.

Several CTAHR Extension Agents & Specialists joined Nursery growers to record our discussion about current problems within the industry and the best way to address them. Grower forums were conducted on all islands and issues summarized across entire industry.

2nd Annual CTAHR Ornamental Field Day –May 12th, 2022. Waiakea Research Station, Hilo, HI.

Ornamental extension agents and specialists, Joanna Bloese, & Russell Galanti gave in-person presentations, tours and demos of the current research, innovations, and projects being conducted for the ornamental industry of Hawaii.

Science Field Day: Oct. 29th 2021. Moon Garden Farms, Mountain View, HI.

A collaboration with Volcano Charter School. I organized Science Day Field Trip where we connected third graders with local farmers. Students had the opportunities to learn principle theories in ecology and evolution with hands on experience and activities.

Hawaii Floriculture & Nursery Association (HFNA) Wedding Celebration. Nov. 19th, 20th & 21st, 2021. Komohana Research and Extension Center.

The webinar included live breeders and grower's forum, virtual nursery tours, and floral designs created by eleven floral designers including featured designers Tim Farrell AIFD, Ken Senter AIFD, Bruno Durante of Toronto and a hands-on workshop with Hitomi Gilliam AIFD. <https://www.hawaii Floriculture.org/>; <https://www.crowdcast.io/e/wedding-celebration-2021/register>

1st Annual CTAHR Ornamental Field Day – Sept. 30th 2021. Waiakea Research Station, Hilo, HI.
Ornamental extension agents and specialists, Joanna Bloese, Russell Galanti, Hannah Lutgen, James Keach and other guest speakers such as Joanne Lichty will be giving in-person presentations, tours and demos of the current research, innovations, and projects being conducted for the ornamental industry of Hawaii.
<https://www.eventbrite.com/e/ctahr-annual-ornamental-field-day-tickets-169939679155>

Hawaii Floriculture & Nursery Association (HFNA) Research Webinar – Sept. 29th 2021. Komohana Research & Extension Center, Hilo, HI.
Hawaii Floriculture and Nursery Association and CTAHR Extension Specialist, Dr. Bloese, organized a one day Research Update event to share newest research results for scientists and growers in the ornamental industry.
<https://www.crowdcast.io/e/Sept29HFNA>

Floriculture and Nursery Seminar Series. 2021. Bloese, Galanti, Lutgen & Keach.
August 10, 2021, 2:00 - 3:30 pm – Tissue Culture Basics.
Dr. Maureen Fitch and Hawaii Agriculture Research Center's tissue culture lab will discuss the fundamentals of tissue culture. The basic science behind tissue culture will be reviewed, as well as the state of tissue culture in Hawaii, the future possibilities, and addressing tissue culture from a practical economic standpoint. Registration link (by August 1, 2021): <https://www.eventbrite.com/e/2021-floriculture-and-nursery-seminar-series-tissue-culture-basics-tickets-154299930245>

Floriculture and Nursery Seminar Series. 2021. Bloese, Galanti, Lutgen, & Keach.
July 6, 2021, 2:00 - 3:30 pm – Sanitation and Cultural Practices.
Extension agents Russell Galanti, Hannah Lutgen, James Keach, and Extension Specialist Joanna Bloese will discuss greenhouse and nursery sanitation for cultural control of plant pathogens. Sanitation is the first line of defense against pathogen introduction and every physical part of a growing operation should be considered when understanding good sanitation. Registration link (by July 1, 2021): <https://www.eventbrite.com/e/2021-floriculture-and-nursery-seminar-series-sanitationcultural-practices-tickets-154299260241>

Floriculture and Nursery Seminar Series. 2021. Bloese, Galanti, Lutgen & Keach.
June 15, 2021, 2:00-3:30 pm – Economics/Recordkeeping continued: Introduction to recordkeeping and a cost estimator for cut ornamentals.
Dr. Stuart Nakamoto continues his discussion on economics and recordkeeping and introduces the cost estimator for ornamentals. Registration link (by June 7, 2021): <https://www.eventbrite.com/e/2021-floriculture-and-nursery-seminar-series-economicrecord-keeping-2-tickets-156029936741>

Floriculture and Nursery Seminar Series. 2021. Bloese, Galanti, Lutgen & Keach.
June 8, 2021, 2:00 – 3:30 pm – Economics/Record Keeping: Introduction to recordkeeping and a cost estimator for potted ornamentals.
Dr. Stuart Nakamoto (Dept. of Human Nutrition, Food and Animal Sciences) will discuss farm record keeping. Record Keeping is essential to understand how your business is running. Stuart will discuss the importance of record keeping and introduce several record keeping practices, as well as record keeping excel software that will be available for free to webinar attendees. Registration link (by June 1, 2021): <https://www.eventbrite.com/e/2021-floriculture-and-nursery-seminar-series-economicrecord-keeping-tickets-154297980413>

Hawaii Foliage Field Day. 2021. Kohala Kentia Nursery, Hawi, HI.
Organized a Farm Tour for foliage and floriculture growers on Big Island Hawaii. Best Management Practices for Coconut scale and precision nutrient management were covered during the Field Day/Workshop.

Hawaii Floriculture & Nursery Association (HFNA) Research Webinar – Sept. 2020. Komohana Research & Extension Center, Hilo, HI.
Hawaii Floriculture and Nursery Association and CTAHR Extension Specialist, Dr. Bloese, helped organize and presented at a one day Research Update event to share newest research results for scientists and growers in the ornamental industry.

Entomophagy Event: 2010-2012.

Researched use of insects as food across several different cultures. Examined human nutritional value of different varieties of insects. Discovered several different recipes involving insects. Developed pamphlets outlining above information. Organized a bug-feed potluck for CSU Chico students, in which students were welcome to bring an edible insect dish to share while we watched Insect-horror movies. This tradition has continued in the Agriculture dept. of CSU Chico.

DIVERSITY & INCLUSION

“Winning Edge - Leadership for Women” - Whole Day In-Person Workshop with Sylvia Dolena.

Attendee. Jan. 13, 2023.

Ku’ikahi Mediation Center 101 Apuni St. Suite PH 1014 B2, Hilo, HI, 97620

Hosted at UH Hilo

How do women learn to maneuver and succeed when advancing up the leadership ladder, especially given the additional obstacles we must overcome? Learn to access your innate talents and develop new skills for stepping powerfully into leadership!

“Making Peace with Conflict: Self-Discovery & Community Building with Lolo Haha” Workshop.

Attendee. Dec. 1, 2021

Ku’ikahi Mediation Center.

"How might our world change if we could lean into conflict more boldly and see conflict as an opportunity for self-discovery and community-building?" asks Lolo, counselor, equity consultant, conflict mediator, and social justice theatre director based in Oregon. "Let's be honest: few of us actually like conflict. Most of us avoid it, instead opting for private frustration or complaints to a friend." An interactive 2-hour workshop and learn to view conflict as an opportunity, identify tools to approach conflict from this new perspective, and process your personal barriers to approaching conflict.

“Ku I Ke Aloha: Stand-up, Speak Out with T. Llihi Gionson” Workshop. Attendee. Oct. 16. 2020.

Ku’ikahi Mediation Center.

"When we approach issues with a clear vision and focus, grounded in aloha for the people and places affected by the issue, we can express our values and concerns in a productive way," says Ilihia. In this interactive session, we will explore examples of individual and community advocacy that resulted in positive change in Hawai'i and beyond. Take away some communication skills for the real world--no matter the media--that you can use with aloha.

Unconscious Bias Workshop: 2020. Organizer & Host.

Organized meeting, presentation and led discussions on unconscious bias in the workplace.

This training helped individuals recognize their own unconscious bias in an effort to create a more inclusive workplace.

CTAHR Mindfulness Moments -Support Group: 2020-Present

A support group for CTAHR faculty in Hawaii county to meet and partake in discussions. As well as disseminate mindfulness practices, e.g. guided meditations, breaking exercises, etc.

Sisters in Science. **Co-founder and President.** 2015-2019. Sisters in Science.

Co-founded a women's in science support group, with bi-weekly meetings and monthly events including: Art and Beer, social hours, outdoor walks, garden/arboretum walks, University of California Davis Women's Love Lab, Library Q & A. Organized guest speaker to come talk about resources for students on UC Davis campus. This group consisted of people who identified as female or non-gender specific identified and of students of all ages, and levels in their degree progress. Ombudsman, UC Davis Faculty, UC Davis Women's center representatives, mental health professionals.

INTERDISCIPLINARY COLLABORATIVE PROJECTS:

ALEPH Film Festival: Mexico. June 2021. Art-Science Film Festival: Medicine and it's Borders

Title of Film: Inside the Looking Pill

Art is a lens that imagines us from within. <http://culturaunam.mx/elaleph/ejes/ciencia-literatura-y-el-arte-de-la-medicina/>

Cooperators: WATS; Fernanda Vizzuet, Joanna Bloese, Rodrigo Viñas, Ana Karen Barajas, Ilana Boltvinik.

"Inside the Looking Pill" is a scenic encounter, that in combination with video art, through a fictional Zoom session, to create a playful space that provokes the imagination of different scenarios within our body. It explores different ideas about the interaction of medicine and our cells, using metaphors and parallel images of the outside world and inside our body. How do we negotiate with our cells? What happens when the medicine ingested is art that allows us to re-imagine our interior? It proposes a game where disease and treatment are merely a provocation to the playful imagination. The patient ingests a pill that triggers a series of visualities, starting with the journey inside the body metaphorically. At the end of this journey the patient has a new relationship and vision of her body and the viewer has enjoyed and reflected on this relationship: about what medicine tells us the body is facing and what we imagine.

Short Documentary. "Understanding Humans Perceived Relationship with Their Environment". 2015.

<https://www.youtube.com/watch?v=2sOmstOQ8eo&t=218s>

I made this video to gain a better understanding of human's perceptions of their relationship to their environment. Is there a perceived separation between humans and nature? And do those perceptions have implications for subsequent environmental values, attitudes and behaviors. While many of the students I interviewed believe they themselves are a part of nature, they largely describe a natural environment as one void of any human interference. Gaining an understanding of this apparent contradiction may lead to better awareness of the importance of people's perceptions of themselves in nature, and how that perception relates to management and policy.

Organized & Taught Graduate Student Seminar. University of California, Davis. "The Relationship among Art, Science and Innovation" Faculty ambassador Diane Ullman: 2017.

The arts and the sciences share a common foundation on which the pillars of creativity and innovation stand. Our greatest contributions emerge from a state of mind where awareness of time almost disappears, focus sharpens and we are one with what we do. Although this perfect harmony usually feels effortless, the mental state where you produce your greatest results can be elusive. This class explores our current mental habits and patterns using ceramic arts and exercises to gain insight into our perceptions and how to create a mental environment conducive to creating and innovating.

LEADERSHIP ROLES (COMMITTEES, BOARDS, ADVISORY, ETC.):

Board Member. 2021-Present. Interdisciplinary Studies Faculty Council

Presenter/Consultant. May 2021 – Aug.2021. UH Gen Ed Curriculum Design Team. UH Gen Ed Summer Institute: Interdisciplinary.

Board Advisor. 2021- Present. Orchid Growers of Hawaii.

Board Member. 2020-Present. COVID Rapid Response Team.

Founder, Advisor. 2020-Present. CTAHR Mindfulness Moments.

Board Member. 2020-2021 & 2023-2024 Entomological Society of America (ESA) -Pacific Branch Meeting Planning Committee.

Board Advisor. 2020-Present. Hawaii Floriculture and Nursery Association (HFNA).

Advisor. 2020-Present. Coordinating Group of Alien Pest Species (CGAPS).

Board Member. 2020-Present. Invasive Pest Working Group.

Collaborator. 2019-Present. Where Art Science & Technology Meet (WATs) an International collaboration with MIT, RMIT, Univ. of San Francisco, TRES Art Collective, and Clubes de Ciencia.

Secretary. 2016-2017. Entomological Graduate Student Association, UC, Davis.

Member. 2016. Graduate Student Admissions Committee, UC, Davis.

Representative. 2015-2016. Graduate Student Association. UC, Davis.

Member. Hiring Committee. 2012. Adventure Outing of Associated Students.

Trip Leader. 2012. Adventure Outings New Staff Orientation Backpack Training.

Committee Head. 2010. Adventure Outings Scholarship Committee.

GRANT SUPPORT:

Total Grant Funding Since 2020 = \$3,129,182 (~3.1 M); 78% success rate of being funded.

Title of Grant: IPM extension implementation: Hawaii
Source of Grant: USDA NIFA CPPM EIP
Total Dollar Value (Your share of the grant value): \$442,371
Dates of Grant: 10/2024- 09/2027
Role (PI, CoPI): Co-PI

Title of Grant: Developing pesticide resistance management regime utilizing soluble silicon fertilizer.
Source of Grant: WSARE
Total Dollar Value (Your share of the grant value): \$348,543
Dates of Grant: 4/1/2024-3/31/2027
Role (PI, CoPI): PI

Title of Grant: Improving ornamental industry of Hawaii through evaluation and distribution if temperate cut flower crops.
Source of Grant: HDOA
Total Dollar Value (Your share of the grant value): \$36,332
Dates of Grant: 01/01/2024- 12/31/2025
Role (PI, CoPI): Co-PI

Title of Grant: Increasing production of Hawaii-grown Eucalyptus through Best Management Practices and Outreach
Source of Grant: HDOA
Total Dollar Value (Your share of the grant value): \$49,705
Dates of Grant: 01/01/2024- 12/31/2025
Role (PI, CoPI): Co-PI

Title of Grant: Relating to Ornamental Ginger, Act 258
Source of Grant: HB305 HD2 SD1 CD1 Legislature Funding- UH Manoa Budget Special Appropriation
Total Dollar Value (Your share of the grant value): \$112,500
Dates of Grant: 8/1/23-7/31/24
Role (PI, CoPI): Co-PI

Title of Grant: Regenerating Soil Health Through Shelterbelt Planting, Sheet Mulching, and Tree Mulch Plant Available Nitrogen Calculator.
Source of Grant: NRCS
Total Dollar Value (Your share of the grant value): \$771,442
Dates of Grant: 8/7/2023 – 8/6/2026
Role (PI, CoPI): Co-PI

Title of Grant: Identification of Giant African Snail Odors to Aid Detector Dog Training – Year 3
Source of Grant: USDA-APHIS
Total Dollar Value (Your share of the grant value): \$60,029
Dates of Grant: 8/1/23-7/31/24
Role (PI, CoPI): PI

Title of Grant: Development of Protein Food Odor-Based Chemical Lure for Female Oriental Fruit Fly
Source of Grant: USDA APHIS
Total Dollar Value (Your share of the grant value): \$145,839
Dates of Grant: 08/1/23- 7/31/24
Role (PI, CoPI): PI

Title of Grant: Identification of Giant African Snail Odors to Aid Detector Dog Training – Year 2
Source of Grant: USDA-APHIS
Total Dollar Value (Your share of the grant value): \$101,837
Dates of Grant: 9/1/22-8/31/24
Role (PI, CoPI): PI

Title of Grant: Improving the Sustainable Production of Hawaii's Ornamental Industry through Precision Nutrient

Management

Source of Grant: HDOA Specialty Crop Block Grant

Total Dollar Value (Your share of the grant value): \$39,885

Dates of Grant: 3/1/2022-02/29/2024

Role (PI, CoPI): PI

Title of Grant: Sustaining Hawaii County Agriculture: Resources to Support On-Farm Consultation and Service Programs

Source of Grant: County of Hawaii Dept. of Research & Development

Total Dollar Value (Your share of the grant value): \$15,954

Dates of Grant: 7/1/2021 – 6/30/2022

Role (PI, CoPI): Collaborator

Title of Grant: Increasing Production and Distribution of Eucalyptus and Other Myrtaceae Products

Source of Grant: Hawaii Department of Agriculture (HDOA)

Total Dollar Value (Your share of the grant value): \$27,500

Dates of Grant: 6/1/2021 – 5/31/2022

Role (PI, CoPI): Co-PI

Title of Grant: Identification of Giant African Snail Odors to Aid Detector Dog Training

Source of Grant: USDA APHIS

Total Dollar Value (Your share of the grant value): \$97,118

Dates of Grant: 9/1/2021 – 8/31/2022

Role (PI, CoPI): Co-PI

Title of Grant: Hawaii Statewide implementation of pest management information through extension activities.

Source of Grant: USDA NIFA CPPM (Crop Protection & Pest Management): EIP (Extension Implementation Program).

Total Dollar Value (Your share of the grant value): \$210,000

Dates of Grant: 9/1/2021 – 8/31/2024

Role (PI, CoPI): Co-PI

Title of Grant: Further investigations into the efficacy and functions of soluble silicon fertilizer in dendrobium production in Hawaii.

Source of Grant: USDA ARS

Total Dollar Value (Your share of the grant value): \$150,000

Dates of Grant: 08/06/2021 - 09/15/2022

Role (PI, CoPI): Co-PI

Title of Grant: Best Management Practices Program for Plant Quarantine Security of Hawaii's Tropical Flowers and Foliage: Year 2

Source of Grant: USDA APHIS

Total Dollar Value (Your share of the grant value): \$97,000

Dates of Grant: 8/1/2021-07/30/2022

Role (PI, CoPI): PI

Title of Grant: Examining Korean Natural Farming in Hawaii Floriculture and Foliage: Year 2

Source of Grant: Hawaii County R&D

Total Dollar Value (Your share of the grant value): \$19,060

Dates of Grant: 7/1/2021-06/30/2022

Role (PI, CoPI): PI

Title of Grant: Examining Korean Natural Farming in Anthuriums: A Systems Approach.

Source of Grant: Hawai'i County R & D

Total Dollar Value (Your share of the grant value): \$20,207

Dates of Grant: 01/2021 -01/2022

Role (PI, CoPI): PI

Title of Grant: Systems approaches to eliminate pests of concern to the Hawaii Ornamental Export Industry.

Source of Grant: USDA ARS

Total Dollar Value (Your share of the grant value): \$100,000

Dates of Grant: 6/15/2020 - 6/14/2022

Role (PI, CoPI): Co-PI

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Title of Grant: Best Management Practices Program for Plant Quarantine Security of Hawaii's Tropical Flowers and Foliage

Source of Grant: USDA APHIS

Total Dollar Value (Your share of the grant value): \$175,000

Dates of Grant: 10/01/2019-08/2021

Role (PI, CoPI): CoPI

Title of Grant: The Development of Ethyl Formate Fumigation and Its Application on Pineapple Mealybugs.

Source of Grant: Korean APHIS—APQA (Animal and Plant Quarantine Agency)

Total Dollar Value (Your share of the grant value): \$108,860

Dates of Grant: 03/01/2020-11/30/2022

Role (PI, CoPI): CoPI

Title of Grant: A collaborative approach to Integrated Pest Management for tadpole shrimp in California rice fields.

Source of Grant: WSARE

Total Dollar Value (Your share of the grant value): \$25,000

Dates of Grant: 08/01/2015-08/2019

Role (PI, CoPI): PI