

Melelani A. Oshiro
University of Hawaii at Manoa – Cooperative Extension
College of Tropical Agriculture and Human Resources
FTE Distribution: 0% I; 0% R; 100% E

Education

<u>Degree</u>	<u>Major</u>	<u>University</u>
MS	Animal Science	University of Hawaii at Mānoa
BS	Animal Science	Massey University, Palmerston NZ
BS	Agriculture, Pre-Veterinary Option	University of Hawaii at Hilo

Professional Appointments

<u>Title</u>	<u>Employer</u>	<u>Dates Employed</u>
Assistant Livestock Extension Agent	University of Hawaii-Manoa	3/2019 – Present
Research Assistant, Range and Livestock Programs	University of Hawaii-Manoa	12/2009 – 2/2019
Yearling Prep	Waikato Stud, Waikato NZ	11/2008 – 01/2009
Veterinary Technician	Veterinary Assoc.Inc., Kamuela, HI	8/1996 - 1/2008
Ranch Hand/Wrangler	Dahana Ranch, Kamuela, HI	8/2006 – 1/2008

Publications (reverse chronological order)

Thesis

Oshiro, M. 2018. Effects of Animal Behavior and Core-Body Temperature on Production Efficiency of Grass-Finished Beef Cattle. M.S. Thesis, University of Hawaii at Manoa, Honolulu, HI.

Refereed Journal Publications

Krushelnicky, P.D., F. Starr, K. Starr, **M. Abran**, M. Thorne, J. Leary, M. Fukada, D. Rubinoff. 2018. Performance of the biocontrol agent *Secusio extensa* (Lepidoptera: Erebidae) on its target host, *Senecio madagascariensis* (Madagascar fireweed), on an alternate host, *Delairea odorata* (Cape ivy), and on nontarget plants, in Hawaii. *Biological Control* 121: 234-246.

Published Abstracts

Thorne, M.S., M. Wright, G. Fukumoto, D. Oishi, S. Wilson, J. Mack, and **M. Oshiro**. 2019. Detection and management of Two-Lined Spittlebug (*Prosapia bicincta*) on Hawaii Rangelands. 72nd Annual meeting of the Society for Range Management. Minneapolis, MN. February 10-14, 2019.

Thorne, M.S., J.P. Hewlett, G.K. Fukumoto, **M.A. Oshiro**. (2018). Mineral Supplementation Program Development and Education for Hawaii Rangelands. Association of Natural Resource Professionals 2018 Conference. Biloxi, MS. April 29-May 3, 2018.

Thorne, M.S., J.P. Hewlett, G.K. Fukumoto, **M.A. Oshiro**. (2018). Development of an individual free-choice mineral supplementation program for improved grazing management in Hawaii's rangelands. 71st Annual meeting of the Society for Range Management, Sparks, Nevada. January 27-February 3, 2018.

Oshiro, M., M.S. Thorne, C.N. Lee, Y.S. Kim, G. Fukumoto. (2018). Effects of animal behavior on core-body temperature and production efficiency of grass-finished cattle. 71st Annual meeting of the Society for Range Management, Sparks, Nevada. January 27-February 3, 2018.

Thorne, M.S., **M.A. Abran**, C.N. Lee, G. Fukumoto. (2016). Animal behavior, body core temperature, and production efficiency of grass-finished cattle. 69th Annual meeting of the Society for Range Management, Corpus Christi, Texas. January 31-February 4, 2016.

Thorne, M.S., G.K. Fukumoto, Y.S. Kim, C.N. Lee, M.H. Stevenson, and **M. A. Abran**. (2015). Forage quality and weaning weight influences grass-finished cattle performance and meat quality. 68th Annual Meeting of the Society for Range Management, Sacramento, California. January 30 – February 7, 2015.

Thorne, M.S., G.K. Fukumoto, Y.S. Kim, C.N. Lee, M.H. Stevenson, and **M. A. Abran**. (2015). Grazing management for tropical grass-finish beef production. 68th Annual Meeting of the Society for Range Management, Sacramento, California. January 30 – February 7, 2015.

- Thorne, M.S., G.K. Fukumoto, M.H. Stevenson, and **M. A. Abran.** (2015). Drought management tools for Hawaii's rangelands. 68th Annual Meeting of the Society for Range Management, Sacramento, California. January 30 – February 7, 2015.
- Thorne, M.S., J.P. Hewlett, G.K. Fukumoto, M. Stevenson, and **M. A. Abran.** 2014. Hawaii Rainfall and Forage Production Index: An Evaluation Tool for Drought Affected Rangelands. 67th Annual Meeting of the Society for Range Management, Orlando Florida, February 8-13, 2014.
- Preston, Whitney Dawn, Marla Fergerstrom, Glen Fukumoto, Tracy Sy, **Melelani Abran,** Ashley Michelle Stokes. 2012. Weaning weight and impact on innate immunological status of beef cattle. Federation of American Societies for Experimental Biology Journal, 26:1

Technical Reports

- Thorne, M.S., J.L. Deenik, R.W. Godfrey, G.K. Fukumoto, J.S. Powley, M.H. Stevenson, L.J. Duponcheel, and **M. Abran.** 2010. Ranch pasture and Livestock Management Record Book. University of Hawaii at Manoa CTAHR Publication. Pp. 62.

Extension Publications

- Feuz, D. M., Thorne, M. S., **Oshiro, M.,** & Sand, S. (2022). Beef Cattle Retained Ownership Analysis Web-Based, Decision-Support Tools. *UH CTAHR Extension Publications*, AS-. <https://www.ctahr.hawaii.edu/oc/freepubs/pdf/AS-8.pdf>
- Le, T., Ahmad, A., Brown, E. L., Crum, J. A., Wong, A. K., Sand, S., Oshiro, M., & Kirk, E. (2022). Rates of Stress, Depression, and Suicide Among Hawai'i Agricultural Producers & Allied Professionals. *UH CTAHR Extension Publications*, MH-1. <https://www.ctahr.hawaii.edu/oc/freepubs/pdf/MHI-1.pdf>
- Le, T., Greenwood, H., Brown, E., Wong, A., Crum, J., Ahmad, A., Oshiro, M., & Sand, S. (2022). Reported Stressors and Desired Resources Expressed by Hawai'i Farmers and Ranchers. *UH CTAHR Extension Publication*, MHI-2. <https://www.ctahr.hawaii.edu/oc/freepubs/pdf/MHI-2.pdf>
- Katulski, S., Thorne, M. S., Odani, J., & Oshiro, M. (2020). Copper Supplementation for Beef Cattle in Hawai'i. *UH CTAHR Extension Publications*, LM-36. <https://www.ctahr.hawaii.edu/oc/freepubs/pdf/LM-36.pdf>
- Thorne, M.S., J.L. Deenik, R.W. Godfrey, G.K. Fukumoto, J.S. Powley, M.H. Stevenson, L.J. Duponcheel, and M. Abran. 2010. Ranch pasture and Livestock Management Record Book. University of Hawaii at Manoa CTAHR Publication. Pp. 62.

Extension and Outreach Presentations (Invited)

1. *Technology for Livestock and Pasture Management.* Cal-Pac SRM, Fall Meeting. October 2022
2. *Innovative Technology for Extension Programming: Podcasting - Lessons Learned?* NAE4HYDP Animal Science Working Group meeting. September 2022
3. *Livestock Wala'au- CTAHR Extension Podcast:Lessons Learned.* Innovative Technology for Extension Programing. UH CTAHR LEG Professional Development Program. May 2022
4. *All About Chicks:Backyard Chicken Production.* Hilo Hongwanji Preschool. April 2022.
5. *Frame Scores for Beef Cattle.* ANSC 201 Guest Speaker. February 2022
6. *Hawaii Land Management:Past and Present.* Cal-Pac Society for Range Management Fall Meeting. December 2021.
7. *Low-Stress Livestock Handling.* UH Animal Science Club. November 2021
8. *Backyard Livestock Production.* Hawaii Food Alliance Summit. July 2021
9. *Interisland Livestock Shipper Certification.* Maui Cattlemen's Association Annual Meeting/HCC Mid-Year Meeting. May 2021
10. *Using eXtension Online Campus.* How to create an account and enroll in course: Interisland Livestock Shipper Certification. March 2021
11. *Study Results: Effects of Animal Behavior on core-body temperature and production efficiency of grass-finished cattle.* Spring Forage Field Day Workshop-Practices for Sustainable Beef Production. June 2019
12. *What is a Livestock Extension Agent?* Honokaa Elementary School Career Day Guest Speaker. May 2019
13. Thorne, Mark S., Glen K. Fukumoto, Yong, S. Kim, Chin N. Lee, Matthew H. Stevenson and ***Melelani Abran.** (Sept. 2015). *An Update: Effects of Animal Behavior on Body Core Temperature and Production Efficiency of Grass Finish Cattle.* CTAHR Extension and Research Update Workshop, Maui, HI (Sept. 2015)
14. *Secusio extensa Release Program: a bio-control for Fireweed.* Stockman's Fall Field Day. April 2013

Workshops & Other Activities

1. September 8-9, 2022 Farm Health & Farmers' Wealth: Planning for a more sustainable and stable tomorrow. FRISAN Agent Roadshow. (Oahu).
2. August 17-19, 2022 Farm Health & Farmers' Wealth: Planning for a more sustainable and stable tomorrow. FRISAN Agent Roadshow. (Hawaii Island).
3. August 11-12, 2022 Farm Health & Farmers' Wealth: Planning for a more sustainable and stable tomorrow. FRISAN Agent Roadshow. (Kauai).
4. April 2022 VSGP Swine Health Lecture (East Hawaii) Co-Host.
5. April 2022 VSGP Swine Workshops (East Hawaii) Co-Hosted.
6. April 2021 **Hawaii Beef Quality Assurance Certification Training**. Beef Quality Assurance (BQA) & Hawaii Beef Ambassador Workshop.
7. September 2020 **Body Condition Scores and Frame Scores for Beef Cattle**. Livestock Extension Group Virtual Field Day.
8. May 2020 Four-Part Online Livestock Marketing Webinar; Part 1 – Online Marketing Livestock Panel; Part – 2 Using Online Sales Platforms: **Using Online Sales Platforms (Square) Presenter: Melelani Oshiro**, Different Online Payment Formats – Presenter: Shannon Sand; Part 3 – Marketing Using Social Media: Instagram for the farm and ranch Presenter: Shannon Sand, **Using Social Media to Market Animal Products (Facebook) Presenter: Melelani Oshiro**, Using Canva to Support Social Media Marketing Presenter: Savannah Katulski; Part 4- General Marketing & Branding, Direct Marketing and Branding Presenter: Shannon Sand
9. February 2020 Honeybee Health Lecture and Workshop held in East and West Hawaii which is part of Food Animal Medicine Continuing Education Series lead by Dr. Jenee Odani.
10. June 2019 Spring Forage Field Day – Practices for Sustainable Beef Production in Hawaii lead by Dr. Mark Thorne, Presentation on **Results of a Study on Grazing Behavior, Production Efficiency, & Carcass Quality in Beef Cattle**.
11. Nov. 2019 Waimea Country School Science Fair, Guest Scientist
12. May 2019 Stakeholder Focus Group: Hawaii Livestock Producer Assistance
13. May 2019 VSGP Poultry Health Workshop (East Hawaii)
14. May 2019 VSGP Poultry Health Lecture (East Hawaii)
15. May 2019 Honokaa Elementary School Career Day, Guest Speaker
16. 2019, 2018, 2012 Hawaii Grazing and Livestock Management Academy, Kamuela, HI,
17. June 2013 CTAHR Tropical Pasture and Livestock Management Conference, Tinian, CNMI Planning Committee.
18. August 2013 CTHAR, Stockman's Fall Field Day, Kamuela, HI, August 2013.
19. February 2013 Secusio Release Program, February 2013
20. May & June 2012 Marianas Grazing Academy – Workshop Series #4, Tinian, Rota, Saipan, Guam, Planning Committee
21. June 2012 Livestock Management Academy – Workshop Series #2, Palau, Pohnpei, Planning Committee.
22. January 2011 Marianas Grazing Academy-Workshop Series #3. Saipan, Guam, Planning Committee. January 2011
23. September 2011 CTAHR Tropical Pasture and Livestock Management Conference, Maui, HI., Planning Committee.
24. March & August 2011 Livestock Management Academy – Workshop Series #1, Palau, Pohnpei, Planning committee.
25. December 2010 Marianas Grazing Academy-Workshop Series #3. Tinian, Rota, Planning Committee.
26. June & September 2010 Marianas Grazing Academy-Workshop Series #2. Tinian, Rota, Saipan, Guam, Planning Committee.

Creative Works (i.e., Extension Videos, Websites, Blogs, Creative Designs and Exhibitions, etc.)

Website

Thorne, M. and Abran, M. (2012) Tropical Pasture and Livestock Management.

<http://manoa.hawaii.edu/ctahr/tpalm/index.html>

Oshiro, M. and Sand, S. (2021). Livestock Wala’au Podcast. University of Hawaii.
<https://sites.google.com/hawaii.edu/livestockwalaau/home>

Oshiro, M. (2021). Interisland Livestock Shipper Certification. University of Hawaii.
<https://sites.google.com/hawaii.edu/interisland-livestock-shipper/home>

Academic and Professional Awards, Memberships, and Activities

Professional Organizations

Society of Range Management – California-Pacific Section (2017-present)
National Association of County Agricultural Agents (NACAA) (2019 – present)

Community Organizations

Taste of the Hawaiian Range Agricultural Festival Committee Member (2019 – present)
Livestock Shipper Certification Committee (2020 – Present, Chair Dec.2020)
Hawaii Range Plant Identification Committee (2020)

CTAHR Committees

Livestock Extension Group (LEG) – 2019-Present
Sub-Committee: LEG-Needs Assessment Committee, LEG-Pau Hana Committee, LEG – Field Day Committee
Technology Outreach Committee (2020 – Present)
SEC-Ad Hoc Sub-Committee: Cross-Departmental Strategic Vision for CTAHR (2020)
CTAHR Extension Committee (Nov. 2020)

Professional Development

New Agent Mentor Series (January – April 2020)

Grant Support

External

<u>Title of Grant:</u>	Risk Management Education for Hawaii Beef Producers Underserved by Crop Insurance
<u>Source of Grant:</u>	Western ERME
<u>Total Dollar Value (Your share of the grant value):</u>	\$97,418
<u>Dates of Grant:</u>	10/2019 – 09/2024
<u>Role (PI, CoPI):</u>	PI
<u>Title of Grant:</u>	Western Regional Agricultural Program WRASP
<u>Source of Grant:</u>	WRSAP/WFRSAN/WSU
<u>Total Dollar Value (Your share of the grant value):</u>	\$9,3298
<u>Dates of Grant:</u>	3/2022-12/2022
<u>Role (PI, CoPI):</u>	Co-PI
<u>Title of Grant:</u>	Farm and Ranch Stress Assistance Network (FRSAN)-Hawaii State Plan. USDA-NIFA/State of Hawaii-Department of Agriculture.
<u>Source of Grant:</u>	USDA-NIFA/HDOA
<u>Total Dollar Value (Your share of the grant value):</u>	\$474,835
<u>Dates of Grant:</u>	2021-2023
<u>Role (PI, CoPI):</u>	CoPI

Title of Grant: Production, Marketing and Finance Risk Education for Hawaii
Beef Producers Underserved by Crop Insurance
Source of Grant: USDA-W ERME
Total Dollar Value (Your share of the grant value): \$70,000
Dates of Grant: 04/2021-9/2022
Role (PI, CoPI): CoPI

Title of Grant: Economic Evaluation of Beef Cattle Production Models and
Marketing Alternatives in Hawaii.
Source of Grant: Western SARE
Total Dollar Value (Your share of the grant value): \$54,386
Dates of Grant: 2021-2022
Role (PI, CoPI): CoPI

Internal

Title of Grant: Livestock Extension Group Coordination: Extension POW 14-
242
Source of Grant: USDA-CSREES
Total Dollar Value (Your share of the grant value): \$124,973
Dates of Grant: 10/2019 – 09/2024
Role (PI, CoPI): Collaborator

Title of Grant: Small Ruminant Health and Production
Source of Grant: USDA-NIFA
Total Dollar Value (Your share of the grant value): \$13,510
Dates of Grant: July 1, 2022 - June 30, 2023
Role (PI, CoPI): Co-PI

Title of Grant: Poultry Health and Production Outreach
Source of Grant: USDA-NIFA
Total Dollar Value (Your share of the grant value): \$10,950
Dates of Grant: July 1, 2022 - June 30, 2023
Role (PI, CoPI): Co-PI

Grants Submitted

Title of Grant: Seedless Leucaena hybrids for sustainable silvopasture
systems
Source of Grant: Western SARE
Total Dollar Value (Your share of the grant value): \$348,722
Dates of Grant: Submitted 10/2022 for FY2023
Role (PI, CoPI): CoPI

Title of Grant: Educating Hawaii's Producers, Farmworkers, and Pesticide
Handlers About Safe Pesticide Use to
Reduce Risks
Source of Grant: Western ERME
Total Dollar Value (Your share of the grant value): \$99,999
Dates of Grant: Submitted 11/2022 for FY2023
Role (PI, CoPI): CoPI

Presentations at Conferences

- Title: Changes in vegetative community composition following Twoline Spittlebug (*Prosapia bicincta*) infestations in Hawaii Rangelands.
Authors (*presenter): ***Thorne, M.S.**, M. Wright, S. Wilson, J. Mack, and M. Oshiro.
Name of Conference: 73rd. Annual Meeting of the Society for Range Management
Location: Denver, Colorado
Date of Presentation: February 16-20, 2020
- Title: Detection and management of Two-Lined Spittlebug (*Prosapia bicincta*) on Hawaii Rangelands.
Authors (put an asterisk on the presenter): *Thorne, M.S., M. Wright, G. Fukumoto, D. Oishi, S. Wilson, J. Mack, and **M. Oshiro**
Name of Conference: 72nd Annual meeting of the Society for Range Management
Location: Minneapolis, Minnesota
Date of Presentation: February 10-14, 2019
- Title: Mineral Supplementation Program Development and Education For Hawaii Rangelands.
Authors (put an asterisk on the presenter): *Thorne, M.S., J.P. Hewlett, G.K. Fukumoto, **M.A. Oshiro**
Name of Conference: Association of Natural Resource Professionals 2018 Conference
Location: Biloxi, Mississippi
Date of Presentation: April 29 – May3, 2018
- Title: Development of and individual free-choice mineral supplementation program for improved grazing management in Hawaii's rangelands.
Authors (put an asterisk on the presenter): *Thorne, M.S., J.P. Hewlett, G.K. Fukumoto, **M.A. Oshiro**.
Name of Conference: 71st Annual meeting of the Society for Range Management
Location: Sparks, Nevada
Date of Presentation: January 27 – February 3, 2018
- Title: Effects of animal behavior on core-body temperature and production efficiency of grass-finished cattle.
Authors (put an asterisk on the presenter): ***Oshiro, M.**, M.S. Thorne, C.N. Lee, Y.S. Kim, G. Fukumoto.
Name of Conference: 71st Annual meeting of the Society for Range Management
Location: Sparks, Nevada
Date of Presentation: January 27 – February 3, 2018
- Title: Animal Behavior, body core temperature, and production efficiency of grass-finished cattle.
Authors (put an asterisk on the presenter): *Thorne, M.S., **M.A. Abran**, C.N. Lee, G. Fukumoto
Name of Conference: 69th Annual meeting of the Society for Range Management
Location: Corpus Christi, Texas
Date of Presentation: January 31 – February 4, 2016
- Title: Forage quality and weaning weight influences grass-finished cattle performance and meat quality.
Authors (put an asterisk on the presenter): *Thorne, M.S., G.K. Fukumoto, Y.S. Kim, C.N. Lee, M.H. Stevenson, and **M. A. Abran**

Name of Conference: 68th Annual meeting of the Society for Range Management
Location: Sacramento, California
Date of Presentation: January 30 – February 7, 2015

Title: Grazing Management for tropical grass-finish beef production.
Authors (put an asterisk on the presenter): *Thorne, M.S., G.K. Fukumoto, Y.S. Kim, C.N. Lee, M.H. Stevenson, and **M. A. Abran**

Name of Conference: 68th Annual meeting of the Society for Range Management
Location: Sacramento, California
Date of Presentation: January 30 – February 7, 2015

Title: Drought management tools for Hawaii’s rangelands.
Authors (put an asterisk on the presenter): *Thorne, M.S., G.K. Fukumoto, Y.S. Kim, C.N. Lee, M.H. Stevenson, and **M. A. Abran**

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