

CURRICULUM VITAE

Kimberly M. Burnett

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EDUCATION

University of Hawaii, Ph.D., Economics, May 2007

University of Hawaii, M.A., Economics, December 2004

Loyola University New Orleans, B.B.A, Economics, 1998

PROFESSIONAL EXPERIENCE

Associate Director University of Hawaii Economic Research Organization	July 2020-present
Specialist University of Hawaii Economic Research Organization Social Science Research Institute	July 2018 – present
Associate Specialist University of Hawaii Economic Research Organization	July 2012 – June 2018
Affiliate Researcher Water Resources Research Center University of Hawaii at Manoa	January 2010–July 2021
Cooperating Graduate Faculty Department of Economics Department of Natural Resources and Environmental Management University of Hawaii at Manoa	January 2009–present
Assistant Specialist University of Hawaii Economic Research Organization Social Science Research Institute University of Hawaii at Manoa	July 2008– June 2012
Assistant Professor Department of Economics University of Puget Sound	July 2007– June 2008

PEER-REVIEWED PUBLICATIONS

Okuhata, B.K., A.I. El-Kadi, H. Dulai, J. Lee, C.A. Wada, L.L. Bremer, **K.M. Burnett**, J.M.S. Delevaux, C.K. Shuler. 2021. A density-dependent multi-species model to assess groundwater flow and nutrient transport in the coastal Keauhou aquifer, Hawai'i, USA. *Hydrogeology Journal*, <https://doi.org/10.1007/s10040-021-02407-y>

Wada C.A., **K.M. Burnett**, B.K. Okuhata, J.M.S. Delevaux, H. Dulai, A.I. El-Kadi, V. Gibson, C. Smith, L. L. Bremer. 2021 Identifying wastewater management tradeoffs: Costs, nearshore water quality, and implications for marine coastal ecosystems in Kona, Hawai'i. PLoS ONE 16(9): e0257125. <https://doi.org/10.1371/journal.pone.0257125>

Lewis, D., C.A. Wada, **K.M. Burnett**, J. Leary, B. Mahnken. 2021. Evaluating Protection Strategies for an Invasive Plant Species: *Miconia calvescens*. In: Invasive Alien Species, eds: T.Pullaiah and M.Ielmini, Wiley-Blackwell, 1472 Pages.

Bremer, L.L., A. Elshall, C.A. Wada, L. Brewington, J. Delevaux, A. El-Kadi, C. Voss, and **K.M. Burnett**. 2021. Effects of land cover and watershed protection futures on sustainable groundwater management in a heavily-utilized aquifer in Hawai'i. *Hydrogeology Journal*, <https://doi.org/10.1007/s10040-021-02310-6>.

Bremer, L.L., N. DeMaagd, C.A. Wada, **K.M. Burnett**. 2021. Identifying priority watershed management areas for groundwater recharge for drinking water on Hawai'i Island. *Journal of Environmental Management* <https://doi.org/10.1016/j.jenvman.2020.111622>.

Elshall, A.S., A.D. Arik, A.I. El-Kadi, S. Pierce, M. Ye, **K.M. Burnett**, C.A. Wada, L.L. Bremer, and G. Chun. 2020. Groundwater Sustainability: A Review of the Interactions between Science and Policy. *Environmental Research Letters* 15, <https://iopscience.iop.org/article/10.1088/1748-9326/ab8e8c>.

Engels J.L., S. Watson, H. Dulai, **K.M. Burnett**, C.A. Wada, A. Aga, N. DeMaagd, J. McHugh, B. Sumida, L.L. Bremer. 2020. Collaborative research to support urban agriculture in the face of change: The case of the Sumida watercress farm on O'ahu. PLOS ONE 15(7): e0235661. <https://doi.org/10.1371/journal.pone.0235661>

Burnett, K.M., A. S. Elshall, C.A. Wada, A. Arik, A. El-Kadi, C. I. Voss, J. Delevaux, and L. L. Bremer. 2020. Incorporating historical spring discharge protection into sustainable groundwater management: A case study from Pearl Harbor Aquifer, Hawai'i. *Frontiers in Water*, <https://doi.org/10.3389/frwa.2020.00014>.

Pongkijvorasin, S., C.A., Wada, and **K.M. Burnett**. 2020. Optimal multi-instrument management of interrelated resources and a groundwater dependent ecosystem. *Journal of Environmental Management*, 269, <https://doi.org/10.1016/j.jenvman.2020.110723>.

Wada, C. A., Pongkijvorasin, S. and **K.M. Burnett**. 2020. Mountain-to-sea ecological-resource management: forested watersheds, coastal aquifers, and groundwater dependent ecosystems. *Resource and Energy Economics*. <https://doi.org/10.1016/j.reseneeco.2019.101146>

Taniguchi, M., Dulai H, **Burnett, K.M.**, Santos I.R., Sugimoto R., Stieglitz T., Kim G., Moosdorf N. and Burnett W.C. 2019. Submarine Groundwater Discharge: Updates on Its Measurement Techniques, Geophysical Drivers, Magnitudes, and Effects. *Front. Environ. Sci.* 7:141. doi: 10.3389/fenvs.2019.00141.

Burnett, K.M., Ticktin, T., Bremer, L. Quazi, S. Geslani, C. Wada, C. Kurashima, N. Mandle, L. Pascua, P., Depraetere T., Wolkis, D., Edmonds, M., Giambelluca, T., Falinski, K., and Winter K. 2019. Restoring to the Future: Environmental, Cultural, and Management Tradeoffs in Historical versus Hybrid Restoration of a Highly Modified Ecosystem. *Conservation Letters*, e12606. <https://doi.org/10.1111/conl.12606>

Bremer, L.L., C.A. Wada, S. Medoff, J. Page, K. Falinski, and **K.M. Burnett**. 2019. Contributions of native forest protection to local water supplies in East Maui. *Science for the Total Environment*, 688, 1422-1432, <https://doi.org/10.1016/j.scitotenv.2019.06.220>.

Taniguchi, M. **K.M. Burnett**, J. Shimada, T. Hosono, C.A. Wada, and K. Ide. 2019. Recovery of lost nexus synergy via payment for environmental services in Kumamoto, Japan. *Frontiers in Environmental Science*, 7, doi: 10.3389/fenvs.2019.00028.

Delevaux, J.M.S., K. A. Stamoulis, R. Whittier, S. D. Jupiter, L.L. Bremer, A. Friedlander, N. Kurashima, J. Giddens, K. B. Winter, M. Blaich-Vaughan, **K.M Burnett**, C. Geslani, and T. Ticktin. 2019. Place-based management can reduce human impacts on coral reefs in a changing climate. *Ecological Applications*, 29(4). <http://dx.doi.org/10.1002/eap.1891>.

Burnett, K.M., C.A. Wada, M. Taniguchi, R. Sugimoto, and D. Tahara. 2018. Evaluating the Tradeoffs between Groundwater Pumping for Snow-Melting and Nearshore Fishery Productivity in Obama City, Japan. *Water*, 10, doi:10.3390/w10111556.

Burnett, K.M. and C.A. Wada. 2018. Accounting for Externalities in the Water Energy Food Nexus. In: Endo, A., Oh, T. (Eds.), *The Water-Energy-Food Nexus: Human-Environmental Security in the Asia-Pacific Ring of Fire*, Chapter 18, Springer, pp.261-272.

Pongkijvorasin, S. **K.M. Burnett**, and C.A. Wada. 2018. Joint Management of an Interconnected Coastal Aquifer and Invasive Tree, *Ecological Economics*, 146, 125-135.

Bremer, L.L., L. Mandle, C. Trauernicht, P. Pascua, H.L. McMillen, **K.M. Burnett**, C. A. Wada, N. Kurashima, S.A. Quazi, T. Giambelluca, P. Chock and T. Ticktin. 2018. Bringing Multiple Values to the Table: Assessing Future Land-use and Climate Change in North Kona, Hawaii. *Ecology and Society* 23 (1):33. <https://doi.org/10.5751/ES-09936-230133>.

Leary J, B. Mahnken, C.A. Wada and **K.M. Burnett**. 2018. Interpreting life-history traits of miconia (*Miconia calvescens*) through management over space and time in the East Maui Watershed, Hawaii (USA). *Invasive Plant Science and Management* 11:191–200. doi: 10.1017/inp.2018.26.

Bremer, L.L. K. Falinski, C. Ching, C.A. Wada, **K.M. Burnett**, K. Kukea-Shultz, N. Reppun, G. Chun, K.L. Oleson, and T. Ticktin. 2018. Biocultural Restoration of Traditional Agriculture:

Cultural, Environmental, and Economic Outcomes of Lo‘i Kalo Restoration in He‘eia, O‘ahu. *Sustainability*, 10, 4502. <https://doi.org/10.3390/su10124502>.

Delevaux, J.M.S., K. Winter, M. Vaughan, S. Jupiter, K. A. Stamoulis, L. L. Bremer, **K.M. Burnett**, P. Garrod, J. L. Troller, and T. Ticktin. 2018. Linking land and sea through collaborative research to inform contemporary applications of Traditional Resource Management in Hawaii. *Sustainability*, 10(9): 3147. <https://doi.org/10.3390/su10093147>.

Delevaux, J.M.S., R. Whittier, K.A. Stamoulis, L. Bremer, S. Jupiter, A. Friedlander, M. Poti, G. Guannel, N. Kurashima, K. Winter, R. Toonen, E. Conklin, C. Wiggins, A. Knudby, W. Goodell, **K.M. Burnett**, S. Yee, Hla Htun, K. Oleson, and T. Wiegner, T., Ticktin. 2018. A Linked Land-Sea Modeling Framework to Inform Ridge-to-Reef Management in High Oceanic Islands, *PLoS ONE*, 13(3): e0193230. <https://doi.org/10.1371/journal.pone.0193230>.

Burnett, K.M., C.A. Wada, A. Balderston. 2017. Benefit-Cost Analysis of Watershed Conservation on Hawaii Island. *Ecological Economics* 131, 262-274.

Wada, C.A., L. Bremer, **K.M. Burnett**, C. Trauernicht, T. Giambelluca, L. Mandle, E. Parsons, C. Weil, N. Kurashima, T. Ticktin. 2017. Estimating the Cost-Effectiveness of Hawaiian Dry Forest Restoration Using Spatial Changes in Water Yield and Landscape Flammability under Climate Change. *Pacific Science* 71(4), 401-424.

Kim, K., **K.M. Burnett** and J. Ghimire. 2017. Integrating Fast Feedback and GIS to Plan for Important Agricultural Land Designations in Kauai County, Hawaii. *Journal of Land Use Science*, 12(5): 375-390.

Burnett, K.M., C.A. Wada, A. Endo, and M. Taniguchi. 2017. The Economic Value of Groundwater in Obama. *Journal of Hydrology: Regional Studies*, 11: 44-52.
doi:10.1016/j.ejrh.2015.10.002

Endo, A., I. Tsurita, **K.M. Burnett**, P. Orenco. 2017. A Review of the Current State of Research on the Water, Energy, and Food Nexus. *Journal of Hydrology: Regional Studies*, 11:20-30,
doi:10.1016/j.ejrh.2015.11.010

Burnett, K.M., C.A. Wada, A. Endo, and M. Taniguchi. 2016. Cost-Benefit Analysis of Disaster Mitigation Infrastructure: The Case of Seawalls in Otsuchi, Japan. *Journal of Finance and Economics*, 4(3), 1-11. <http://dx.doi.org/10.12735/jfe.v4n3p01>.

Wada, C.A., **K.M. Burnett**, and J. Gurdak. 2016. Sustainable Agriculture Irrigation Management: The Water-Energy-Food Nexus in Pajaro Valley, California, *Sustainable Agriculture Research*, 5(3), 76-83, <http://dx.doi.org/10.5539/sar.v5n3p76>

Taniguchi, M. N. Masuhara, and **K.M. Burnett**. 2016. Water, Energy, and Food Security in the Asia Pacific Region. *Journal of Hydrology: Regional Studies*, 11: 9-19.
doi:10.1016/j.ejrh.2015.11.005

- Kim, K., **K.M. Burnett** and J. Ghimire. 2015. Assessing the Potential for Food and Energy Self-sufficiency on the Island of Kauai, Hawaii. *Food Policy*, 54, 44-51.
doi:10.1016/j.foodpol.2015.04.009
- Burnett, K.M.**, S. Pongkijvorasin, J. Roumasset, C.A. Wada. 2015. Integrated Management of Water Resources: Watersheds, Wetlands, Groundwater Stocks, and Coastal Ecology. In: Handbook of Water Economics, A. Dinar and K. Schwabe (Eds.), Chapter 9, Edward Elgar.
- Endo, A., **K.M. Burnett**, P. Orenco, T. Kumazawa, C.A. Wada, A. Ishii, I. Tsurita, and M. Taniguchi. 2015. Methods of the Water-Energy-Food nexus. *Water* 7, 5806-5830.
doi:10.3390/w7105806.
- Henly-Shepard, S. C. Anderson, **K.M. Burnett**, L. Cox, J. N. Kittinger, and M. Ka’auomoana. 2015. Quantifying Household Social Resilience: A Place-based Approach in a Rapidly Transforming Community. *Natural Hazards* 75(1), 343-363.
- Burnett, K.M.**, J. Roumasset, and C.A. Wada. 2015. Optimal Joint Management of Interdependent Resources: Groundwater Versus Kiawe (*Prosopis pallida*). In A. Balisacan, U. Chakravorty and M. Ravago (Eds.), *Sustainable Economic Development: Resources, Environment and Institutions*, Chapter 6, Academic Press. doi:10.1016/B978-0-12-800347-3.00006-6
- Burnett, K.M.**, R. Howitt, J. Roumasset and C.A. Wada, eds. 2014. Handbook of Water Economics and Institutions, Routledge.
- Burnett, K.M.**, J. Roumasset, and C.A. Wada. 2014. The Good, Bad, and Ugly of Watershed Management, in *Handbook of Water Economics and Institutions* K. Burnett, R. Howitt, J. Roumasset and C. Wada, eds; Routledge, 100-110.
- Burnett, K.M.**, and C.A. Wada. 2014. Optimal Groundwater Management when Recharge is Declining: A Method for Valuing the Recharge Benefits of Watershed Conservation, *Environmental Economics and Policy Studies*, 16 (3), 263-278. doi:10.1007/s10018-014-0077-y
- Burnett, K.M.**, L. Endress, M-L. Ravago, J. Roumasset, C.A. Wada. 2014. Islands of Sustainability in Time and Space. *International Journal of Sustainable Society* 6(1/2), 9-27.
- Burnett, K.M.**, J. Roumasset, and C.A. Wada. 2012. Multi-instrument Pollution Abatement from Multiple Sources: The Case of Nitrogen Pollution in Groundwater. *Journal of Sustainable Watershed Science and Management*, 1(3): 76–83. doi:10.5147/jswsm.2012.0088
- Burnett, K.M.**, S. D’Evelyn, L. Loope, and C.A. Wada. 2012. An Economic Approach to Assessing Import Policies Designed to Prevent the Arrival of Invasive Species: The Case of *Puccinia psidii* in Hawai‘i. *Environmental Science & Policy* 19-20: 158-168.
- Burnett, K.M.**, S. Pongkijvorasin, and J. Roumasset. 2012. Species Invasion as Catastrophe: The Case of the Brown Tree Snake. *Environmental and Resource Economics* 51(2): 241-254.
- Burnett, K.M.**, S. D’Evelyn, L. Loope, and C.A. Wada. 2012. Economic Analysis of the Proposed Rule to Prevent Arrival of New Genetic Strains of the Rust Fungus *Puccinia psidii* in Hawai‘i.

Technical Report No. 177. The Hawai'i-Pacific Islands Cooperative Ecosystem Studies Unit & Pacific Cooperative Studies Unit, University of Hawai'i, Honolulu, Hawai'i. 50 pp.

Duarte, T. K., S. Pongkijvorasin, J. Roumasset, D. Amato, and **K.M. Burnett**. 2010, Optimal Management of a Hawaiian Coastal Aquifer with Nearshore Marine Ecological Interactions, *Water Resources Research* 46, W11545, doi:10.1029/2010WR009094.

Kaiser, B. and **K.M. Burnett**. 2010. Spatial Economic Analysis of Early Detection and Rapid Response Strategies for an Invasive Species. *Resource and Energy Economics*, 32(4): 566-585.

Pongkijvorasin, S., J. Roumasset, T. Duarte, and **K.M. Burnett**. 2010. Renewable Resource Management with Stock Externalities: Coastal Aquifers and Submarine Groundwater Discharge. *Resource and Energy Economics* 32(3): 277-291.

Roumasset J., **K.M. Burnett**, and A.M. Balisacan (eds.) 2010. Sustainability Science for Watershed Landscapes. Singapore: Institute of Southeast Asian Studies; Los Banos, Philippines: Southeast Asian Regional Center for Graduate Study and Research in Agriculture.

D'Evelyn, S, N. Tarui, **K.M. Burnett**, and J. Roumasset. 2008. Uncertain Populations and the Value of Information. *Journal of Environmental Management* 89(4): 284-292.

Burnett, K.M., S. D'Evelyn, B. Kaiser, P. Nantamanasikarn and J. Roumasset. 2008. Beyond the Lamppost: Optimal Prevention and Control of the Brown Tree Snake in Hawaii, *Ecological Economics* 67: 66-74.

Roumasset, J., **K.M. Burnett**, and H. Wang. 2008. Environmental Resources and Economic Growth, in *China's Economic Transition: Origins, Mechanism, and Consequences* Brandt, L and T Rawski, eds. New York, NY: Cambridge University Press.

Kasier, B., B. Pitafi, J. Roumasset, and **K.M. Burnett**. 2008. The Economic Value of Watershed Conservation, in *Land Management Impacts on Coastal Watershed Hydrology* A. Fares and A. El-Kadi, eds. Southampton, U.K: WIT Press.

Burnett, K.M., B. Kaiser and J. Roumasset. 2007. Economic Lessons from Control Efforts for an Invasive Species: *Miconia calvescens* in Hawaii, *Journal of Forest Economics* 13 (2-3): 151-167.

Burnett, K.M., B. Kaiser and J. Roumasset. 2007. Invasive Species Control over Space and Time: *Miconia calvescens* on Oahu, Hawaii. *Journal of Agricultural and Applied Economics* 39: 125-132.

Burnett, K.M. 2006. Introduction of Invasive Species: Failure of the Weaker Link. *Agricultural Resource Economics Review* 35(1): 21-28.

Burnett, K.M., B. Kaiser, B. Pitafi, and J. Roumasset. 2006. Prevention, Eradication, and Containment of Invasive Species: Illustrations from Hawaii. *Agricultural and Resource Economics Review* 35(1): 63-77.

Kaiser, B. and **K.M. Burnett**. 2006. Economic Impacts of E. Coqui Frogs in Hawaii *Interdisciplinary Environmental Review* 8(2) 1-11.

Kaiser, B., **K.M. Burnett**, and J. Roumasset. 2006. Control of Invasive Species: Lessons from Miconia in Hawaii. 15th Australian Weeds Conference: Papers and Proceedings, Adelaide, South Australia. Council of Australian Weeds societies, C. Preston, J.H. Watts, and ND Crossman, eds. pp 663-667.

Levin, P., R. Cowie, C. Ferguson, J. Taylor, K. Hayes, **K.M. Burnett**, and C. Tran. 2006. Apple Snail Invasions and the Slow Road to Control: Ecological, Economic, Agricultural and Cultural Perspectives in Hawaii, in *Global Advances in Ecology and Management of Golden Apple Snails* (ed. R.C. Joshi). Philippine Rice Research Institute, Muñoz, Nueva Ecija.

GRANTS

2020 UH Vice President of Research and Innovation: “The Economic Impact of the University of Hawai‘i System 2021 Update,” (Principal Investigator)

2019 Maui Department of Water Supply: “Bioeconomic Models Prioritizing Mauka Catchment Basins of the East Maui Watershed for Protection Against Miconia Invasion,” (Principal Investigator)

2019 Hawaii Invasive Species Committee: “Building Research and Technology Capacity to Support Invasive Plant Species Management,” (Principal Investigator)

2018 Hau‘oli Mau Loa: “Natural Resource Management Report Update,” (Principal Investigator)

2018 Research Institute for Humanity and Nature Research Fellowship, “Economic Analysis of the Water-Energy-Food Nexus” (Principal Investigator)

2017 Hawaii Community Foundation “Spatial Analysis of Cost-Effective Watershed Restoration,” (Principal Investigator)

2017 Ulupono Initiative “Organizational Study of Water Management Networks and Processes in Hawaii,” (co-Principal Investigator)

2017 The Nature Conservancy “Economic Valuation of The Nature Conservancy’s Watershed Conservation in the East Maui Watershed,” (Principal Investigator)

2016 National Science Foundation IKE-IMUA EPSCoR Track-1 “Ike Wai: Securing Hawaii’s Water Future,” (Senior Personnel)

2016 Honolulu Board of Water Supply “Economic Analysis of Water Resource Impact of Red Hill Fuel Tanks,” (Principal Investigator)

2016 Hawaii Invasive Species Committee “Science and Technology Based Management of Incipient Miconia (*Miconia calvescens* DC) Utilizing Herbicide Ballistic Technology (HBT)” (co-Principal Investigator)

2015 National Science Foundation Food Energy Water Program, Supplement to: “Understanding the links between local ecological knowledge, ecosystem services, and resilience to climate change in Pacific Islands,” (co-Principal Investigator)

2015 Research Institute for Humanity and Nature Research Fellowship, “Economic Analysis of the Water-Energy-Food Nexus” (Principal Investigator)

2015 The Nature Conservancy “Watershed Conservation Return on Investment Analysis,” (Principal Investigator)

2015 Hawaii Invasive Species Committee: “Assessing the Costs of Invasive Species in Hawaii,” (Principal Investigator)

2015 Water Resources Research Center: “Towards an Understanding of Residential Water Conservation Behaviors on Oahu,” (co-Investigator)

2015 SeaGrant “Predicting Hawaii Water Demand under Climate Change” (co-Investigator)

2015 Hawaii Strategic Development Corporation “Evolution of the HI Growth Initiative” (Principal Investigator)

2015 University of Hawaii Student Services “An Assessment of Student Expenditures” (Principal Investigator)

2014 National Science Foundation Coastal SEES Program: “Understanding the links between local ecological knowledge, ecosystem services, and resilience to climate change in Pacific Islands,” (co-Principal Investigator)

2014 Hawaii Community Foundation: “Returns on Watershed Conservation,” (Principal Investigator)

2014 Hawaii Community Foundation: “Green Plumbing Code Benefit-Cost Analysis,” (Principal Investigator)

2014 Hau’oli Mau Loa: “Natural Resource Management Report Update,” (Principal Investigator)

2013 University of Hawaii at Manoa College of Social Sciences Research Support Award: “Developing a Decision Support System for Land Use and Water Management under a Changing Climate,” (Principal Investigator)

2013 Research Institute for Humanity and Nature: “Human-Environmental Security in Asia-Pacific Ring of Fire: Water-Energy-Food Nexus,” (co-Investigator)

2012 State of Hawaii Department of Business, Economic Development, and Tourism: “Scoping the Value of the Special Management Area Permit and Shoreline Setback Variance for the Coastal Zone Management (CZM) Program,” (co-Principal Investigator)

2012 United States Geological Survey: “Satisfying Growing Water Demand Through Integrated Groundwater and Watershed Management,” (Principal Investigator)

2011 Nature Conservancy and Hau’oli Mau Loa: “Hawaii’s Green Growth Initiative,” (Principal Investigator)

2011 SeaGrant Hawaii and Kyo-ya Co. Ltd.: “Indicators for Sustainable Coastal Tourism in Hawaii,” (Principal Investigator)

2010 United States Fish and Wildlife Service: “Estimating the Cost of Rodent Control in Hawaii,” (Principal Investigator)

2010 United States Geological Survey: “Evaluating Policy Options to Reduce the Risk of New Strains of Ohia Rust in Hawaii,” (Principal Investigator)

2009 Kamehameha Schools: “Assessing Affordable Housing Policies for Hawaii” (Principal Investigator)

2009 County of Kauai: “Kauai Important Agricultural Lands Study,” (Principal Investigator)

2009 National Science Foundation: “Ecosystem Function: Natural, Anthropogenic, and Invasive Species Contributions to Biogeochemical Evolution of Groundwaters and Coastal Environments of West Hawaii,” (Senior Personnel)

2009 Save the Waves Coalition: “Wave Valuation Study,” (Co-Investigator)

2008 University of Hawaii at Manoa: “Economic Impact of the University of Hawaii at Manoa,” (Principal Investigator)

2008 Department of Land and Natural Resource / Hawaii Invasive Species Council Award: “Ecological, Hydrological, and Economic Impacts of *Miconia* in Hawaii,” (Co-Investigator).

2007 US FWS Agreement number 122004J001: “Economic Impacts of *Miconia Calvescens* in Hawaii,” (Co-Investigator).

TECHNICAL REPORTS

Burnett, K.M., C.A Wada, 2021. The Economic Impact of the University of Hawai’i System 2021 Update. [University of Hawai’i Economic Research Organization Report](#).

Wada, C.A., L.L. Bremer, N. DeMaagd, S. Medoff, S. Cloudwatcher, and **K.M. Burnett**. 2018. Identifying areas of cost-effective watershed management for groundwater recharge protection on Hawaii Island. project report prepared for the Hawaii Community Foundation, https://uhero.hawaii.edu/assets/HCF2019_WatershedManagement.pdf

Bremer, L.L., C.A. Wada, **K.M. Burnett**, S. Medoff, J. Page, S.B. Lee, K. Falinski, and S. Cloudwatcher. 2018. Economic Valuation of The Nature Conservancy’s Watershed Conservation

Activities in Waikamoi Preserve, Maui, project report prepared for the Hawaii Community Foundation, <https://uhero.hawaii.edu/assets/TNCWaikamoiPreserve.pdf>

Chun, G., P. Adler, A. Arik, **K.M. Burnett**, N. Redding, and C. Wada. 2017. Organizational Study of Water Management Networks and Processes in Hawaii, project report for Ulupono Initiative.

Burnett, K.M. and C. Wada. 2016. Assessing the Costs of Priority HISC Species in Hawaii, project report for the Hawaii Invasive Species Committee, <http://uhero.hawaii.edu/products/view/546>

Bonham, C., **K.M. Burnett**, and S. Rosen. 2016. The Evolution of the HI Growth Initiative, project report for the Hawaii Strategic Development Corporation, http://uhero.hawaii.edu/assets/Evolution_HIGrowth_Initiative.pdf

Burnett, K.M. and C. Wada. 2016. Recent Trends in Hawaii's Green Economy: Agriculture, Energy and Natural Resource Management, project report for Hau'oli Mau Loa Foundation, <http://uhero.hawaii.edu/assets/NRM1-20.2016.pdf>

Burnett, K.M., I. Cintina, and C. Wada. 2015. Economic Impact of the Natural Energy Laboratory Hawaii Authority (NELHA) Tenants on the State of Hawaii, project report for NELHA, <http://uhero.hawaii.edu/assets/NELHAreport-final.pdf>

Burnett, K.M., I. Cintina, and C. Wada. 2014. The Economic Impact of Astronomy in Hawaii, project report for Mauna Kea Observatories, http://www.uhero.hawaii.edu/assets/UHERO_Astronomy_Final.pdf

Burnett, K.M. and C. Wada. 2014. Benefits and Costs of Implementing the IAPMO Green Plumbing and Mechanical Code Supplement in Hawaii, project report for Hawaii Community Foundation, http://uhero.hawaii.edu/assets/HCFGCOprojectenvironmentreport12_18.pdf

Burnett, K.M., I. Cintina, and C. Wada. 2013. The Economic Impact of the University of Hawai'i System, project report for the University of Hawaii, <http://www.uhero.hawaii.edu/assets/UHSystemImpactReport-Public.pdf>

Cintina, I., **K.M. Burnett**, and C. Bonham. The Contribution of the University of Hawai'i at Manoa to Hawai'i's Economy in 2012, <http://www.uhero.hawaii.edu/assets/UHEROEconomicImpactofUHManoa.pdf>

Bonham, C., **K.M. Burnett**, I. Cintina, and P. Bernstein. 2013. Economic Impact of the Natural Energy Laboratory Hawaii Authority Tenants, project report for NELHA, <http://uhero.hawaii.edu/assets/UHERONELHAimpactstudy-final.pdf>

Burnett, K.M. and C. Wada. 2012. Foundations for Hawaii's Green Economy: Economic Trends in Hawai'i Agriculture, Energy, and Natural Resource Management, project report for Hau'oli Mau Loa Foundation, <http://uhero.hawaii.edu/assets/GreengrowthreportFINAL.pdf>

Burnett, K.M., S. D'Evelyn, L. Loope, and C.A. Wada. 2012. Economic Analysis of the Proposed Rule to Prevent Arrival of New Genetic Strains of the Rust Fungus *Puccinia psidii* in Hawai'i.

Technical Report No. 177. The Hawai‘i-Pacific Islands Cooperative Ecosystem Studies Unit & Pacific Cooperative Studies Unit, University of Hawai‘i, Honolulu, Hawai‘i. 50 pp.

LaCroix, S. and **K.M. Burnett**. 2010. The Impact of Civil Unions on Hawaii’s Economy and Government, UHERO Working Paper, http://www.uhero.hawaii.edu/assets/WP_2010-6.pdf

Bonham, C., **K.M. Burnett** and A. Kato. 2010. Inclusionary Zoning: Implications for Oahu’s Housing Market, UHERO Working Paper, <http://www.uhero.hawaii.edu/assets/UHEROProjectReport2010-1.pdf>

Bonham, C., B. Gangnes, **K.M. Burnett**, and A. Kato. 2010. Maui Construction Jobs Down 12% Since March, UHERO Working Paper, http://www.uhero.hawaii.edu/assets/08Q4_MauiUpdate.pdf

Burnett, K.M., P. Leung, and J. Mak. 2009. The Contribution of University of Hawaii at Manoa to Hawaii’s Economy in 2007, UHERO Working Paper, <http://www.uhero.hawaii.edu/assets/UHMimpact2007.pdf>

Burnett, K.M. and S. LaCroix. 2009. Economic Education’s Roller Coaster Ride In Hawaii, 1965-2006, UHERO Working Paper, http://www.uhero.hawaii.edu/assets/UHERO_WP2009-02.pdf

SELECTED INVITED PRESENTATIONS

Considering Ecosystem Service Tradeoffs including Biodiversity and Culture in the Water-energy-food Nexus. Research Institute for Humanity and Nature, 11th International Symposium. Asia’s Transformations to Sustainability: Past, Present and Future of the Anthropocene. Kyoto, Japan, March 2017.

Restoring to the Future: Aiming for Resilience in Light of Economic, Cultural, and Ecological Tradeoffs in Limahuli Valley, Kaua‘i. Hawaii Conservation Conference, Honolulu, Hawaii, August 2017.

Economics of the Water-Energy-Food Nexus. Human-Environmental Security in Asia-Pacific Ring of Fire: Water-Energy-Food Nexus International Meeting, Otsuchi, Japan, October 2016.

Achievements and Opportunities^[1] in Invasive Species Management in Hawaii. Aloha Plus Challenge Policy Retreat, Honolulu, Hawaii, November 2015.

What’s Hawaii’s Environment Worth. Hawaii’s 1000 Friends, Honolulu, Hawaii, November 2015.

From Sustainable, Green and Inclusive Growth to Disaster Economics. Victoria University of Wellington, Wellington, N.Z., February 2014.

Economic Analysis of the Proposed Rule to Prevent Arrival of New Genetic Strains of Rust Fungus *Puccinia psidii*. Hawaii Conservation Conference. Honolulu, HI, August 2-4, 2011.

Using Economics to Predict Species Movement from 1850. World Congress on Environmental and Resource Economics, Montreal, Canada, June 28-July 2, 2010.

Managing Coastal Marine Nutrient Loads: Point and Non-point Sources in West Hawaii. Sustainability Science Conference. Honolulu, HI, May 27-28, 2010.

Paradise at the Crossroads: Sustainable Environomy or Basketcase? Hawaii Statehood Commemoration Conference, Honolulu, Hawaii, August 21, 2009.

Sustainability Science for Watershed Management: A Systems Approach for Efficient Conservation. Hawaii Conservation Conference, Honolulu, Hawaii July 29, 2009.

Optimal Management of a Coastal Aquifer with Near-Shore Marine Ecological Interactions. Western Economic Association Pacific Rim Conference, Kyoto, Japan, March 24-27, 2009.

Spatial Economic Analysis of Early Detection and Rapid Response Strategies for an Invasive Species. 6th World Congress of Herpetology, Manaus, Brazil, August 17-23 2008.

Worldwide Herpetological Species Movements from 1850: Accidental, Purposeful, and Costly Ecological Change. 6th World Congress of Herpetology, Manaus, Brazil, August 17-23 2008.
Curse of Paradise. Western Economic Association International 83rd Annual Conference, Honolulu, Hawaii, June 29-July 3 2008.

STUDENTS

- Diamond Tachera (Department of Earth Sciences Ph.D. student, current committee member)
- Aida Arik (Urban and Regional Planning Ph.D. 2021, committee member)
- Nathan DeMaagd (Economics Ph.D. 2020, committee member)
- Tanya Harrison (Natural Resources and Environmental Management M.S. 2020, committee member)
- Cory LePore (Economics M.A. 2020, committee member)
- John Woodill (Economics Ph.D. 2018, committee member)
- David Wade (Natural Resources and Environmental Management Undergraduate Intern Advisor, 2018)
- Cheryl Geslani Scarton (Natural Resources and Environmental Management Ph.D. 2017, Committee Chair)
- Natalie Kurashima (Botany Ph.D. 2016, Committee Member)
- Shane Rosen (Economics Undergraduate Intern Advisor, 2015)
- Sarah Henly-Shephard (Natural Resources and Environmental Management Ph.D. 2013, Committee Member)
- Veasna Kum (Natural Resources and Environmental Management Ph.D. 2011, Committee Member)
- Megan Chock (Economics Undergraduate Intern Advisor, 2012)

SELECTED SERVICE

- UHERO admin team and communications chair

- Frequent (1-2 articles/month) referee for economics and interdisciplinary journals including Ecological Economics, Journal of Environmental Management, Land Use Policy, PLOS One, etc.
- Regularly attend international (World Congress of Environmental and Resource Economists) and domestic economics and interdisciplinary meetings (Western Economics Association, Hawaii Conservation Conference) to present and discuss papers, and organize and chair sessions
- State of Hawaii Endangered Species Recovery Committee, University of Hawaii Representative, 2016-2019
- Member and frequent guest speaker of the Hawaii Economic Association
- Hawaii Council on Economic Education, Official Judge at Annual Economics Challenge
- Hawaii Dept. of Commerce and Consumer Affairs LifeSmarts Competition Judge
- Frequent outreach, discussions, and interviews with community and media regarding value of conservation, invasive species, and watershed management
- University service includes serving on department personnel committees, hiring committees, guest lecturing across campus and across the University of Hawaii system.