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Education

2010 Ph.D. Economics, University of Hawai'i at Mānoa

2007 M.A. Economics, University of Hawai'i at Mānoa

2005 B.A. Economics, University of California, Berkeley

Professional Positions

2013–present Resource and Environmental Research Economist
University of Hawai'i Economic Research Organization
University of Hawai'i at Mānoa

2010–13 Postdoctoral Researcher
University of Hawai'i Economic Research Organization
University of Hawai'i at Mānoa

Journal Articles

Engels, J., Bruno, B. C., Suzuki, E., Suzuki, K., Dulai, H., Manning, M., Viviani, D., Keliipuleole, K., Dela Cruz, B., Ho, K., Kila, K., Malterre, T., Thepsenavong, A., Bremer, L., **Wada, C.**, Watson, S., Elshall, A. S., Arik, A. D., & Burnett, K. (2024). Co-Production of Knowledge at Sumida Farm Trains a New Generation of Community-Engaged Scientists. *Oceanography*, 37(1), 38-39.

- Okuhata, B. K., Delevaux, J. M. S., Richards Donà, A., Smith, C. M., Gibson, V. L., Dulai, H., El-Kadi, A. I., Stamoulis, K., Burnett, K. M., **Wada, C. A.**, & Bremer, L. L. (2023). Effects of Multiple Drivers of Environmental Change on Native and Invasive Macroalgae in Nearshore Groundwater Dependent Ecosystems. *Water Resources Research*, 59(7), Article e2023WR034593.
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- DeMaagd, N., Fuleky, P., Burnett, K., & **Wada, C.** (2022). Tourism water use during the COVID-19 shutdown: A natural experiment in Hawai'i. *Annals of Tourism Research*, 97, Article 103475.
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- Bremer, L. L., Elshall, A. S., **Wada, C. A.**, Brewington, L., Delevaux, J. M. S., El-Kadi, A. I., Voss, C. I., & Burnett, K. M. (2021). Effects of land cover and watershed protection futures on sustainable groundwater management in a heavily-utilized aquifer in Hawai'i. *Hydrogeology Journal*, 29, 1749-1765.
- Bremer, L. L., DeMaagd, N., **Wada, C. A.**, & Burnett, & K. M. (2021). Priority watershed management areas for groundwater recharge and drinking water protection: a case study from Hawai'i Island. *Journal of Environmental Management*, 286, 111622.
- Engels, J., Watson, S., Dulai, H., Burnett, K. M., **Wada, C. A.**, Aga, A., DeMaagd, N., McHugh, J., Sumida, B., & Bremer, L. L. (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.
- Burnett, K. M., Elshall, A. S., **Wada, C. A.**, Arik, A., El-Kadi, A., Voss, C. I., Delevaux, J. M. S., & Bremer, L. L. (2020). Incorporating Historical Spring Discharge Protection Into

- Sustainable Groundwater Management: A Case Study From Pearl Harbor Aquifer, Hawai'i. *Frontiers in Water*, 2, Article 14.
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- Roumasset, J., & **Wada, C. A.** (2015). Payments for Watershed Services as Adaptation to Climate Change: Upstream Conservation and Downstream Aquifer Management. *Water Economics and Policy*, 1(1), Article 1450003.
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Book Chapters

- Burnett, K. M., Pongkijvorasin, S., & **Wada, C. A.** (2024). Multidisciplinary and Intersectoral Collaborations in the Water-Energy-Food Nexus: Examples from Japan and Thailand. In E. Lee, B. Böer, L. Surendra, J. A. Chun & M. Taniguchi (Eds.), *The Water, Energy, and Food Security Nexus in Asia and the Pacific* (pp. 239-249). Springer Press.
- Lewis, D., **Wada, C. A.**, Burnett, K. M., Leary, J., & Mahnken, B. (2021). Evaluating Protection Strategies for an Invasive Plant Species: *Miconia calvescens*. In T. Pullaiah & M. R. Ielmini (Eds.), *Invasive Alien Species: Observations and Issues from Around the World* (vol. 4, pp. 285-302). Wiley-Blackwell.

- Burnett, K., & **Wada, C. A.** (2018). Accounting for Externalities in the Water Energy Food Nexus. In A. Endo & T. Oh (Eds.), *The Water-Energy-Food Nexus: Human-Environmental Security in the Asia-Pacific Ring of Fire* (pp. 261-272). Springer.
- Endo, A., Kumazawa, T., Burnett, K., Ishii, A., Tsurita, I., **Wada, C. A.**, Kato, T., Yamada, M., & Orenco, P. (2018). An Interdisciplinary Approach for Water-Energy-Food Nexus. In A. Endo & T. Oh (Eds.), *The Water-Energy-Food Nexus: Human-Environmental Security in the Asia-Pacific Ring of Fire* (pp. 289-299). Springer.
- Burnett, K., Pongkijvorasin, S., Roumasset, J., & **Wada, C. A.** (2015). Incentivizing interdependent resource management: watersheds, groundwater, and coastal ecology. In A. Dinar & K. Schwabe (Eds.), *Handbook of Water Economics* (pp. 150-161). Edward Elgar Publishing.
- Burnett, K., Roumasset, J. A., & **Wada, C. A.** (2015). The good, bad, and ugly of watershed management. In K. Burnett, R. Howitt, J. A. Roumasset & C. A. Wada (Eds.), *Routledge Handbook of Water Economics and Institutions* (pp. 100-110). Routledge.
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- Roumasset, J. A., & **Wada, C. A.** (2015). Integrating demand-management with development of supply-side substitutes. In K. Burnett, R. Howitt, J. A. Roumasset & C. A. Wada (Eds.), *Routledge Handbook of Water Economics and Institutions* (pp. 50-60). Routledge.
- Roumasset, J. A., & **Wada, C. A.** (2015). Ordering extraction from multiple aquifers. In K. Burnett, R. Howitt, J. A. Roumasset & C. A. Wada (Eds.), *Routledge Handbook of Water Economics and Institutions* (pp. 40-49). Routledge.
- Burnett, K. M., Roumasset, J. A., & **Wada, C. A.** (2015). Optimal Joint Management of Interdependent Resources: Groundwater versus Kiawe (*Prosopis pallida*). In A. M. Balisacan, U. Chakravorty & M. L. V. Ravago (Eds.), *Sustainable Economic Development: Resources, Environment and Institutions* (pp. 91-104). Academic Press.
- Roumasset, J. A., & **Wada, C. A.** (2015). Integrated Groundwater Resource Management. In A. M. Balisacan, U. Chakravorty & M. L. V. Ravago (Eds.), *Sustainable Economic Development: Resources, Environment and Institutions* (pp. 77-89). Academic Press.

Roumasset, J., & **Wada, C. A.** (2014). Groundwater economics. In J. Whitehead & T. Haab (Eds.), *Environmental and Natural Resource Economics: An Encyclopedia* (pp. 166-169). Greenwood.

Roumasset, J. A., & **Wada, C. A.** (2013). Economics of Groundwater. In J. F. Shogren (Ed.), *Encyclopedia of Energy, Natural Resource, and Environmental Economics* (vol. 2, pp. 10-21). Elsevier.

Edited Books

Burnett, K., Howitt, R., Roumasset, J. A., & **Wada, C. A.** (Eds.). (2015). *Routledge Handbook of Water Economics and Institutions*. Routledge.

Other Publications

Wada, C. A., Newfield, C., & Burnett, K. M. (2025). *Benefits and Costs of Biological Control: Coffee Berry Borer, Erythrina Gall Wasp, and Fireweed in Hawai'i*. University of Hawai'i Economic Research Organization.

Newfield, C., DeMaagd, N., **Wada, C.**, Burnett, K., & Bremer, L. (2025). *Return on Investment for Watershed Protection on Kaua'i*. University of Hawai'i Economic Research Organization.

Burnett, K., Newfield, C., & **Wada, C.** (2025). *Considerations for Understanding Water Availability in West Maui*. University of Hawai'i Economic Research Organization.

McLean, A., **Wada, C.**, Tyndall, J., Burnett, K., Ronquilio, K., & Coffman, M. (2024). *Transfer of Development Rights for Sea Level Rise Adaptation: An Analysis for O'ahu*. Institute for Sustainability and Resilience & University of Hawai'i Economic Research Organization.

Juarez, R., Maunakea, A., Bonham, C., Bond-Smith, D., Glatt, N., Le, B., Moore, C., Peres-David, R., Phankitnirundorn, K., Siegal, N., **Wada, C.**, Wood, C., Yee, J., & Rhinebolt, V. (2024). *Maui Wildfire Exposure Study: Community Health, Wellbeing, and Resilience*. University of Hawai'i Economic Research Organization.

Juarez, R., Bonham, C., Bond-Smith, D., Moore, C., **Wada, C.**, Le, B., Siegal, N., & Rhinebolt, V. (2023). *Shaping Health in Hawaii: The Influences of Poverty, Housing and Food Insecurity*. University of Hawai'i Economic Research Organization.

- Juarez, R., Halliday, T., Bonham, C., Bond-Smith, D., Moore, C., **Wada, C.**, Le, B., Siegal, N., Kang, Z., & Rhinebolt, V. (2023). *Vaccination Booster Uptake Lags as COVID Impact Reach Widens*. University of Hawai'i Economic Research Organization.
- Bond-Smith, S., Bonham, C., Burnett, K., **Wada, C.**, & Rhinebolt, V. (2022). *Economic Impact of Astronomy in Hawai'i: 2019 Update*. University of Hawai'i Economic Research Organization.
- Burnett, K., & **Wada, C.** (2021). *The Economic Impact of the University of Hawai'i System 2021 Update*. University of Hawai'i Economic Research Organization.
- Bremer, L. L., DeMaagd, N., **Wada, C.**, & Burnett, K. (2019). *Identifying priority watershed management areas for groundwater recharge protection on Hawai'i Island*. University of Hawai'i Economic Research Organization & Water Resources Research Center.
- Burnett, K., & **Wada, C.** (2019). *Characterizing Hawai'i's Natural Resources Management Sector: Jobs, Education, Salaries, and Expenditures*. University of Hawai'i Economic Research Organization.
- Wada, C.**, Bremer, L., DeMaagd, N., Medoff, S., Cloudwatcher, S., & Burnett, K. (2019). *Identifying areas of cost-effective watershed management for groundwater recharge protection on Hawai'i Island*. University of Hawai'i Economic Research Organization.
- Bremer, L., **Wada, C.**, Burnett, K., Medoff, S., Page, J., Lee, S., Falinski, K., & Allen, S. (2018). *Economic Valuation of The Nature Conservancy's Watershed Conservation Activities in Waikamoi Preserve, Maui*. University of Hawai'i Economic Research Organization.
- Chun, G., Adler, P., Arik, A., Burnett, K., Redding, N., & **Wada, C.** (2017). *Organizational Study of Water Management Networks and Processes in Hawai'i*. University of Hawai'i Economic Research Organization.
- Burnett, K., & **Wada, C.** (2016). *Assessing the Costs of Priority HISC Species in Hawaii*. University of Hawai'i Economic Research Organization.
- Burnett, K., & **Wada, C.** (2016). *Economic Valuation of The Nature Conservancy's Watershed Conservation on Hawai'i Island: Ka'u and Kona Hema*. University of Hawai'i Economic Research Organization.
- Burnett, K., & **Wada, C.** (2016). *Recent Trends in Hawai'i's Green Economy: Agriculture, Energy, and Natural Resource Management*. University of Hawai'i Economic Research Organization.

- Burnett, K., Cintina, I., & **Wada, C.** (2015). *Economic Impact of the Natural Energy Laboratory Hawaii Authority Tenants on the State of Hawaii*. University of Hawai'i Economic Research Organization.
- Burnett, K., Cintina, I., & **Wada, C.** (2014). *The Economic Impact of Astronomy in Hawai'i*. University of Hawai'i Economic Research Organization.
- Burnett, K., **Wada, C.**, & Coffman, M. (2013). *Methodologies to Assess the Value of the Coastal Zone Management (CZM) Special Management Area (SMA) Permit Program*. University of Hawai'i Economic Research Organization.
- Cintina, I., Burnett, K., & **Wada, C.** (2013). *The Economic Impact of the University of Hawai'i System*. University of Hawai'i Economic Research Organization.
- Burnett, K., & **Wada, C.** (2012). *Foundations for Hawai'i's Green Economy: Economic Trends in Hawai'i Agriculture, Energy, and Natural Resource Management*. University of Hawai'i Economic Research Organization.
- Burnett, K., D'Evelyn, S., Loope, L., & **Wada, C.** (2012). *Economic Analysis of the Proposed Rule to Prevent Arrival of New Genetic Strains of the Rust Fungus *Puccinia psidii* in Hawai'i* (Report No. 177). The Hawai'i-Pacific Islands Cooperative Ecosystem Studies Unit & Pacific Cooperative Studies Unit, University of Hawai'i at Mānoa.

Works in Progress

- McLean, A., **Wada, C. A.**, Tyndall, J., Burnett, K. M., Ronquilio, K., Newfield, C., & Coffman, M. Investigating the Potential for a Transfer of Development Rights Program to Facilitate Sea Level Rise Adaptation in O'ahu, Hawai'i.