RUBEN JUAREZ

UHERO–HMSA Distinguished Endowed Professor of Health Economics

Professor of Economics | University of Hawai'i at Mānoa

Co-director and Co-founder | Maui Wildfire Exposure Study

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Research and leadership profile

Dr. Ruben Juarez is the UHERO–HMSA Distinguished Endowed Professor of Health Economics at the University of Hawai'i Economic Research Organization and Professor in the Department of Economics at the University of Hawai'i at Mānoa. He is Co-director and Co-founder of the Maui Wildfire Exposure Study. His scholarship spans economic theory and applied research on public health, social networks, environmental exposures, and the conditions that shape community resilience.

Academic contributions. Dr. Juarez's interdisciplinary research program connects economics, public health, and biomedical science to examine trust, health behavior, social determinants of health, and biological risk. His scholarship also advances economic theory through research on incentives, mechanism design, and social networks. He combines formal economic models with empirical analysis, longitudinal population studies, and biomedical measurement. His publications appear in *PNAS*, *JAMA Psychiatry*, *JAMA Network Open*, the *American Journal of Public Health*, the *Journal of Economic Theory*, and *Games and Economic Behavior*, among other leading journals. His work connects fundamental questions about human behavior and institutions with evidence that informs public health policy and community interventions.

Sustained research funding. Dr. Juarez has maintained continuous research support for most of his career at the University of Hawai'i. He currently serves as PI on three active NIH R01 awards and one R33, totaling $12.99 million across their project periods. These awards support research on wildfire exposure and children's development, legacy pollutants and cardiopulmonary health, community resilience, and metabolic health in Native Hawaiian youth. He also serves as co-investigator on additional active NIH projects addressing food insecurity and hypertension, youth resilience, and the social and biological determinants of diabetes. His selected funding record encompasses $36.31 million across 33 awards. Support from the State of Hawai'i, Kaiser Permanente, Hawai'i Community Foundation, HMSA and the HMSA Foundation, Direct Relief, and other partners complements his federal research program.

Maui Wildfire Exposure Study. Dr. Juarez co-founded and co-directs a longitudinal social and biomedical research program established after the 2023 Maui wildfires. MauiWES integrates environmental exposures and biomonitoring with physical and mental health, housing, employment, displacement, and social support. The program has served more than 2,500 residents through more than 4,000 screening and follow-up appointments, making it the largest disaster cohort in Hawai'i and the most comprehensive wildfire cohort in the nation. It connects participants with health information, referrals, and community resources while producing evidence for long-term recovery. Senior-authored papers in JAMA Network Open, JAMA Psychiatry, and PNAS examine post-wildfire health, economic disruption, and internal metal mixtures associated with pulmonary impairment. NIH awards extend adult follow-up through 2029 and research on children through 2031.

Community engagement and population research. As Co-founder and Director of the Pacific Alliance Against COVID-19, Dr. Juarez helped build partnerships among health centers, schools, and community organizations that engaged more than 30,000 participants in testing, education, and research, with a focus on Native Hawaiian and Pacific Islander communities. He co-leads the Hawai'i Social Epigenomics of Early Diabetes cohort, integrating social networks and biomedical data to study diabetes risk and prevention among approximately 2,100 participants on O'ahu and Hawai'i Island. He

also co-directs the UHERO Statewide Rapid Survey, which follows more than 2,000 residents to examine social determinants of health and inform community and policy decisions.

Multidisciplinary and academic leadership. Dr. Juarez builds research partnerships connecting UHERO, Economics, the John A. Burns School of Medicine, various other units across the University of Hawai'i, and community organizations. These collaborations combine scientific expertise with local knowledge to define research priorities, support participation, and return findings to the people and organizations involved. His academic leadership includes service as Director of Graduate Studies in Economics and leadership of graduate admissions and curriculum committees. He has chaired six doctoral committees, served on twelve additional doctoral committees, and supervised four master's students. Presentations to NIH, the National Academy of Medicine, and the National Academies of Sciences, Engineering, and Medicine extend this work to national research and public health audiences.

Community leadership and public benefit. As Co-founder and CEO of Hawai'i Integrated Analytics, Dr. Juarez helps community organizations evaluate health, food security, youth development, and economic opportunity programs. As a Founding Board Member and Treasurer of the Hispanic Chamber of Commerce Hawai'i, he works with community organizations, business leaders, and Mexican and other Latin American consular partners to support Hawai'i's Hispanic and Latino communities. His research and service connect scholarly discovery with public benefit through community partnerships, accessible reports, participant feedback, and public education, with particular attention to populations underserved by existing institutions.

Academic appointments

2022–present UHERO–HMSA Distinguished Endowed Professor of Health Economics, University of Hawai'i Economic Research Organization

2020–present Professor, Department of Economics, University of Hawai'i at Mānoa

2011–present Research Fellow, University of Hawai'i Economic Research Organization

2014–2020 Associate Professor, Department of Economics, University of Hawai'i at Mānoa

2014–2015 Visiting Professor, Department of Economics, Université de Montréal

2008–2014 Assistant Professor, Department of Economics, University of Hawai'i at Mānoa

Education

2008 PhD in Economics, Rice University. Dissertation supervisor: Hervé Moulin.

2004 BS in Mathematics, Universidad de Guanajuato (CIMAT).

Research and institutional leadership

2023–present Co-director and Co-founder, Maui Wildfire Exposure Study and Registry

2020–2024 Director and Co-founder, Pacific Alliance Against COVID-19

2018–present Chief Executive Officer and Co-founder, Hawai'i Integrated Analytics

2019–present Founding Board Member and Treasurer, Hispanic Chamber of Commerce Hawai'i

2015–2019 Director of Graduate Studies, Department of Economics, University of Hawai'i at Mānoa

Additional program leadership includes leading the UHERO Statewide Rapid Survey and co-leading the Hawai'i Social Epigenomics of Early Diabetes cohort.

Honors and awards

2026 Mexicanos Distinguidos recognition, Consulate General of Mexico in San Francisco

2025 Award for Excellence in Research, College of Social Sciences, University of Hawai'i at Mānoa

2024 Board Member of the Year, Hispanic Chamber of Commerce Hawai'i

2011 Young Investigator Program Award, Air Force Office of Scientific Research

1998 Gold Medal, National Mathematics Olympiad

Editorial appointments

2023–present Associate Editor, Scientific Reports

2020–present Associate Editor, Mathematical Social Sciences

2019–present Associate Editor, Humanities and Social Sciences Communications

Selected research publications

1. **Climate-amplified wildland–urban interface disasters create persistent internal metal mixtures associated with pulmonary impairment.** With Alika K. Maunakea, Binh Le, Rafael E. de la Hoz, Alison G. Lee, Zitong Zhang, Martina Kamaka, Marsha Lowery, Lesley Umeda, Brennan Yamamoto, Kathrin Schilling. *Proceedings of the National Academy of Sciences* (2026). doi:10.1073/pnas.2613208123

2. **Gut microbiome signatures associate with DNA methylation-based biological aging.** With B. P. Kunihiro, B. Y. Yamamoto, and A. K. Maunakea. *Scientific Reports* (2026). doi:10.1038/s41598-026-52974-x

3. **Housing Displacement, Employment Disruption, and Mental Health After the 2023 Maui Wildfires.** With B. Le, C. Knightsbridge, M. Lowery, and A. K. Maunakea. *JAMA Psychiatry* (2026). doi:10.1001/jamapsychiatry.2026.0044

4. **Health and Social Support in the Aftermath of the Maui Wildfires.** With K. Phankitnirundorn, D. Bond-Smith, S. V. Ozorio Dutra, A. G. Lee, and A. K. Maunakea. *JAMA Network Open* (2025). doi:10.1001/jamanetworkopen.2025.25430

5. **Rural health disparities: Evidence from Hawai'i.** With S. Bond-Smith and D. Bond-Smith. *The Annals of Regional Science* (2025). doi:10.1007/s00168-025-01391-5

6. **Socioeconomic Determinants of Mental Health Outcomes Among Hawaii Adults.** With Le B., Bond-Smith D., Bonham C., Sanchez-Johnsen L., Maunakea A. *Frontiers in Public Health* (2025). doi:10.3389/fpubh.2025.1526687

7. **Socioeconomic Status, Lifestyle, and DNA Methylation Age Among Racially and Ethnically Diverse Adults.** With Maunakea A., Phankitnirundorn K, Peres R, Dye C, Walsh C, Slavens C, Park L, Wilkens L, Le Marchand L. *JAMA Network Open* (2024). doi:10.1001/jamanetworkopen.2024.21889

8. **Immuno-Microbial Signature of Vaccine-Induced Immunity against SARS-CoV-2.** With Umeda L., Torres A, Kunihiro B, Rubas N, Wells R, Phankitnirundorn K, Peres R, Maunakea A. *Vaccines* (2024). doi:10.3390/vaccines12060637

9. **Asian American and Native Hawaiian and Pacific Islander Visibility and Data Equity: Insights From NIH RADx-UP.** With Sabado-Liwag, Melanie D., Patchareeya P. Kwan, May Okihiro, Angela Sy, Janice Y. Tsoh, JiWon Choi, Chanchanit Martorell, Pearl A. McElfish. *American Journal of Public Health* (2024). doi:10.2105/AJPH.2024.307590

10. **HMGB1 mediates microbiome-immune axis dysregulation underlying reduced neutralization capacity in obesity-related post-acute sequelae of SARS-CoV-2.** With N. Rubas, R. Peres, B. Kunihiro, N. Allan, K. Phankitnirundorn, R. Wells, T. McCraken, R. Lee, L. Umeda, A. Conching, A. Maunakea. *Scientific Reports* (2024). doi:10.1038/s41598-023-50027-1

11. **The Mauli Ola Study: A Unique Academic–Community Partnership With MA'O Organic Farms to Understand and Address Health Inequities Among Native Hawaiians and Other Pacific Islanders in Hawai'i.** With Alika K. Maunakea and J. Kukui Maunakea-Forth. *Health Promotion Practice* (2023). doi:10.1177/15248399231190356

12. **Robust Equilibria in Tournaments.** With M. Vargas, L. Han. *Games and Economic Behavior* (2023). doi:10.1016/j.geb.2023.08.012

13. **Generalized consistent ranking and the formation of self-enforcing coalitions.** With K. Jandoc. *Review of Economic Design* (2023). doi:10.1007/s10058-023-00335-9

14. **Long COVID and Unemployment in Hawaii.** With Bonham C, Siegal N. *International Journal of Environmental Research and Public Health* (2023). doi:10.3390/ijerph20136231

15. **Sequencing the SARS-CoV-2 Genome from Stool Samples of Post-acute Cases Implicates a Novel Mutation Associated with Reduced Antibody Neutralization.** With Panova N, Allan NP, Rubas NC, Lee RH, Kunihiro BP, Umeda L, Peres R, Maunakea AK. *European Journal of Biomedical Research* (2023). doi:10.24018/ejbiomed.2023.2.3.66

16. **Examining the immunoepigenetic-gut microbiome axis in the context of self-esteem among Native Hawaiians and other Pacific Islanders.** With Becerra CY, Wells RK, Kunihiro BP, Lee RH, Umeda L, Allan NP, Rubas NC, McCracken TA, Nunokawa CKL, Lee MH, Pidlaoan FGS, Phankitnirondorn K, Dye CK, Yamamoto BY, Peres R, Maunakea AK. *Frontiers in Genetics* (2023). doi:10.3389/fgene.2023.1125217

17. **Gut microbial indicators of metabolic health underlie age-related differences in obesity and diabetes risk among Native Hawaiians and Pacific Islanders.** With Wells R, Kunihiro B, Phankitnirundorn K, Peres R, McCraken T, Umeda L, Lee R, Kim DY, Maunakea A. *Frontiers in Cellular and Infection Microbiology* (2022). doi:10.3389/fcimb.2022.1035641

18. **Dynamics of Trust and Consumption of COVID-19 Information Implicate a Mechanism for COVID-19 Vaccine and Booster Uptake.** With K. Zheng, K. Phankitnirundorn, M. Okihiro, A. Maunakea. *Vaccines* (2022). doi:10.3390/vaccines10091435

19. **Vaccine Associated Shifts in SARS-CoV-2 Infectivity among the Native Hawaiian and Other Pacific Islander Population in Hawaii.** With K. Phankitnirundorn, A. Ramirez, R. Peres, A.K. Maunakea, M. Okihiro. *American Journal of Public Health* (2022). doi:10.2105/AJPH.2022.306973

20. **Opposing role of trust as a modifier of COVID-19 vaccine uptake in an indigenous population.** With K. Phankitnirundorn, M. Okihiro, A. Maunakea. *Vaccines* (2022). doi:10.3390/vaccines10060968

21. **Financial Implications of COVID-19 Polymerase Chain Reaction Tests on Independent Laboratories.** With T. Halliday, C. Tan, S. Colby, G. Bai. *Journal of General Internal Medicine* (2022). doi:10.1007/s11606-022-07676-1

22. **The effects of COVID-19 vaccine mandates in Hawaii.** With N. Siegal, A. Maunakea. *Vaccines* (2022). doi:10.3390/vaccines10050773

23. **Mobile Money Networks with Tax-Incentives.** With I. Rivadeneyra, D. Suthers. *Humanities and Social Sciences Communications* (2022). doi:10.1057/s41599-022-01075-x

24. **Coalitional Efficient Profit-Sharing.** With K. Nitta, M. Vargas. *Economics Letters* (2021). doi:10.1016/j.econlet.2021.109875

25. **Incentive Compatible Simple Mechanisms.** With J. You. *Economic Theory* (2021). doi:10.1007/s00199-021-01342-z

26. **Non-cooperative bargaining with unsophisticated agents.** With K. Trejo, J. Clempner, A. Poznyak. *Computational Economics* (2020). doi:10.1007/s10614-020-10003-7

27. **Profit Sharing and Efficient Time Allocation.** With K. Nitta, M. Vargas. *Economic Theory* (2020). doi:10.1007/s00199-019-01230-7

28. **An Experimental Study of Self-Enforcing Coalitions.** With K. Jandoc. *Games* (2019). doi:10.3390/g10030031

29. **Continuous Mechanism Design.** *Ed. J.F. Laslier, H. Moulin, R. Sanver, W.S. Zwicker, The Future of Economic Design* (2019). doi:10.1007/978-3-030-18050-8

30. **Routing-proofness in Congestion-prone Networks.** With M. Wu. *Games* (2019). doi:10.3390/g10020017

31. **Optimality of the Uniform Rule under Single-peaked Preferences.** With Jung You. *Economic Theory Bulletin* (2019). doi:10.1007/s40505-018-0141-z

32. **Sharing Sequential Values in a Network.** With C. Ko, J. Xue. *Journal of Economic Theory* (2018). doi:10.1016/j.jet.2018.08.004

33. **Free Intermediation in Resource Transmission.** With Lining Han. *Games and Economic Behavior* (2018). doi:10.1016/j.geb.2018.06.006

34. **Self-enforcing Coalitions with Power Accumulation.** With Karl Jandoc. *International Journal of Game Theory* (2017). doi:10.1007/s00182-016-0538-6

35. **Towards an Economics of Irrigation Networks.** With K. Jandoc, J. Roumasset. *Routledge Handbook of Water Economics and Institutions* (2015). doi:10.4324/9781315670780-14

36. **Group strategyproof cost sharing: the role of indifferences.** *Games and Economic Behavior* (2013). doi:10.1016/j.geb.2013.07.005

37. **Implementing Efficient Graphs in Connection Networks.** With R. Kumar. *Economic Theory* (2013). doi:10.1007/s00199-012-0720-4

38. **Prior-free cost-sharing design: group strategyproofness and the worst absolute loss.** *Social Computing and Behavioral Modeling* (2009). doi:10.1007/978-1-4419-0056-2_16

39. **Solutions without dummy axiom for TU cooperative games.** *Economics Bulletin* (2008). doi:10.5018/econpapers.eb-07c70040

40. **The Worst Absolute Surplus Loss in the Problem of Commons: Random Priority vs. Average Cost.** *Economic Theory* (2008). doi:10.1007/s00199-006-0165-8

41. **Dissection of cooperative solutions in game theory using representation techniques.** With F. Sanchez-Sanchez, L. Hernandez-Lamoneda. *International Journal of Game Theory* (2008). doi:10.1007/s00182-006-0036-3

Selected policy and community reports

42. **The Road to Recovery: Strengthening Health, Stability, and Resiliency Three Years After the Maui Wildfires.** With Alika Maunakea, et al. *UHERO Public Health Report, July 2026.*

43. **Recovery Through a Disability Lens: Impacts of the 2023 Maui Wildfires on Disability Equity and Shared Prosperity.** With Daniela Bond-Smith and Alika Maunakea. *UHERO Public Health Report, November 2025.*

44. **Enduring Impacts of the November 2021 Red Hill Fuel Spill: Health, Social, Economic, and Trust Implications.** With Leah Bremer, Tara Sutton, Conrad Newfield. *UHERO Public Health Report, October 2025.*

45. **From Crisis to Recovery: Health and Resilience Two Years After the Maui Wildfires.** With Alika Maunakea, et al. *UHERO Public Health Report, June 2025.*

46. **Roots Reborn: "Our Financial Future" – Insights into the Challenges and Opportunities Facing Maui's Immigrant Community.** With Veronica Mendoza Jachowski, Lily Solano, and the Roots Reborn Team. *UHERO Report, May 2025.*

47. **Hawai'i's Health and Wellbeing Journey Over Time — Monitoring Equity and Access.** With Carl Bonham, Daniela Bond-Smith, et al. *UHERO Public Health Report, May 2025.*

48. **Investigating and Tackling Barriers and Needs for Small Business Success in Honolulu.** With Steven Lee, David Monroe, Kyle Zhang. *UHERO Report, February 2025.*

49. **Rural Health Disparities in Hawaii.** With Daniela Bond-Smith, Steven Bond-Smith. *UHERO Public Health Report, August 2024.*

50. **Maui Wildfire Exposure Study: Community Health, Wellbeing, and Resilience.** With Alika Maunakea, Carl Bonham, Daniela Bond-Smith. *UHERO Public Health Report, May 2024.*

51. **Public Health Report: Initial Findings from the Maui Wildfire Exposure Study.** With Alika Maunakea, Carl Bonham. *UHERO Public Health Report, February 2024.*

52. **Social, economic, and health impacts of the Red Hill fuel spill: preliminary survey results.** With Leah Bremer, Tara Sutton, Nicole Siegal, Nathan DeMaagd. *UHERO Blog, January 2024.*

53. **Shaping Health in Hawaii: The Influences of Poverty, Housing and Food Insecurity.** With Bonham C., Bond-Smith D., Moore C. *UHERO Public Health Report, July 2023.*

54. **Vaccination Booster Uptake Lags as COVID Impact Grows.** With Halliday T., Bonham C., Bond-Smith D., Moore C. *UHERO Public Health Report, January 2023.*

55. **Health Effects and Views of COVID-19 in Hawai'i.** With Halliday T., Bonham C., Bond-Smith D., Moore C. *UHERO Public Health Reports, May 2022.*

56. **Impact on COVID-19 Vaccine Uptake in the Pacific Islander Community.** *HIA and We are Oceania, 2022.*

57. **The Food Basket: Ho`olaha Ka Hua Plant-Based Diet Pilot.** *HIA and The Food Basket, 2022.*

58. **COVID-19 Mandates: Recommendation for Hawaii Businesses.** With Maunakea A., Okihiro M., Bonham C. *UHERO Public Health Reports, July 2021.*

59. **The Efficacy of COVID-19 Vaccine Mandates.** With A. Maunakea, M. Okihiro, C. Bonham. *UHERO Report 2021.*

60. **Communicating about COVID-19 Vaccinations: Recommendations for Hawai'i.** With Jack Barile, Jessica Gasiorek, Amy Ebesu Hubbard, and Hye-ryeon Lee. *College of Social Sciences Report, 2021.*

61. **Dialogues with Our Future Ancestors: An Inquiry into the Well-Being of MA'O and Kauhale Youth Leadership Training Program Participants 2003–2020.** *MA'O Organic Farms, 2020.*

62. **2018 Kīlauea Eruption: Potential socioeconomic impacts of the Kīlauea eruption.** With Mark Kimura. *Department of the Interior Strategic Sciences Group Technical Support, 2018.*

Selected research support

$36,308,029 across 33 selected awards; **$20,986,187** across the full award periods of the 10 active projects listed below.

Active support

NIH National Institute on Minority Health and Health Disparities | R01MD021856
ʻĀina-Based Engagement and Social Epigenomic Pathways to Metabolic Health in Native Hawaiian Youth
Sep 2026 – May 2031 | **$3,515,485** | Multiple PI

NIH National Institute on Minority Health and Health Disparities | R01MD021757
Evaluating the Health and Developmental Impacts of Wildfire Exposure on Children
Sep 2026 – Apr 2031 | **$3,696,965** | Contact PI

NIH National Institute of Environmental Health Sciences | R01ES038296
Impact of Legacy Pollutants on Cardiopulmonary Health Following Natural Disasters
Aug 2026 – May 2031 | **$3,590,350** | Contact PI

NIH National Institute on Minority Health and Health Disparities | R33MD019793
The Maui Wildfire Exposure Cohort Study on Community Health and Resilience
Jul 2026 – Jun 2029 | **$2,182,482** | Contact PI

National Institutes of Health
Navigating Hypertension and Food Insecurity: A Produce Prescription Program to Improve Health Outcomes for Native Hawaiian and Pacific Islander Communities
Sep 2026 – Aug 2031 | **$2,834,272** | Co-investigator

National Institutes of Health
Fostering Community Connections Through Native Hawaiian Cultural Values to Strengthen Youth Resilience, Health, and Well-Being
Sep 2023 – Sep 2028 | **$1,000,000** | Co-investigator

National Institutes of Health
Socioecological Determinants of Immunoepigenetic Signatures of Diabetes Risk in Indigenous Communities
Jul 2021 – Apr 2027 | **$3,346,133** | Co-investigator

Kaiser Permanente
The Maui Wildfire Exposure Study
Jan 2026 – Dec 2026 | **$337,500** | Co-PI

Hawaiʻi Community Foundation
The Maui Wildfire Exposure Study
Jan 2026 – Dec 2026 | **$450,000** | Co-PI

Direct Relief
The Maui Wildfire Exposure Study
Jan 2026 – Dec 2026 | **$33,000** | PI

Completed support

National Institutes of Health (Harvard University)
Air pollution disrupts Inflammasome Regulation in HEart And Lung Total Health (AIRHEALTH)
Aug 2025 – Jul 2026 | **$120,000** | Co-PI

National Institutes of Health (Harvard University)
SEAL (Stopping Atopic dermatitis and Allergy) Study: Prevent allergy by enhancing the skin barrier
Jul 2025 – May 2026 | **$504,000** | Co-PI

National Institutes of Health
The Maui Wildfire Exposure Cohort Study on Community Health and Resilience
Jul 2024 – Jun 2026 | **$1,454,988** | PI

State of Hawai'i
The Maui Wildfire Exposure Study and Registry
Jul 2024 – Jan 2026 | **$2,334,681** | Co-PI

Kaiser Permanente
The Maui Wildfire Exposure Study
Apr 2024 – Dec 2024 | **$250,000** | Co-PI

Hawai'i Community Foundation
The Maui Wildfire Exposure Study
Dec 2023 – May 2024 | **$250,000** | Co-PI

Department of Health
Social and Economic Impacts of Red Hill Water Contamination
Sep 2023 – Aug 2024 | **$25,000** | Co-PI

City and County of Honolulu
Investigating and Tackling Barriers and Needs for Small Business Success in Honolulu
Sep 2023 – Dec 2024 | **$50,000** | PI

National Institutes of Health
PAAC Ur-Test: Fostering Safe Schools by Accelerating COVID-19 Self-Testing Health Literacy
Mar 2022 – Mar 2023 | **$811,814** | Co-PI

State of Hawai'i
Longitudinal analysis of health disparities in Hawaii: response to systemic economic and health challenges exacerbated by COVID-19
Jul 2021 – Jun 2023 | **$400,000** | Co-PI

National Institutes of Health
Empowering schools as community assets to mitigate the adverse impacts of COVID-19
Jun 2021 – Jun 2025 | **$2,997,000** | Co-PI

National Science Foundation
Real time self-monitoring system for COVID-19 prognosis
Dec 2020 – Jul 2021 | **$256,000** | Co-investigator

National Institutes of Health
Community Driven Approach to Mitigate COVID 19 Disparities in Hawaii's Vulnerable Populations
Sep 2020 – Jun 2023 | **$4,500,000** | Project Co-Director

City and County of Honolulu
Honolulu's "Back on the Wave"
Sep 2020 – Jun 2021 | **$32,841** | PI

National Institute of Food and Agriculture via UH Maui College
Developing Sustainable Aquaponics Systems for Food Security and Community Resiliency in Hawaii
Jun 2020 – May 2022 | **$28,000** | Evaluator

Hawai'i Community Foundation
Multi-phase Initiative to Mitigate Impacts of COVID-19
Apr 2020 – Aug 2020 | **$82,041** | Co-PI

National Institutes of Health
Immunoepigenetic-gut microbiome axis in the social networks of health disparate youth
Sep 2019 – Aug 2020 | **$383,000** | Co-investigator

Kamehameha Schools
Determining the Health Impacts of ʻĀina-Based Programs
Jul 2018 – Jun 2020 | **$100,000** | PI

National Asian Pacific Center on Aging
Behavioral Risk Factor Surveillance System, AAPI Language Access Project and Dementia Friends Translation Project
Jun 2018 – Dec 2019 | **$120,000** | Co-Investigator

University of Hawaiʻi, C-MAIKI
Investigating the Gut Microbiome in Social Networks
Jan 2018 – Jun 2019 | **$10,000** | Co-PI

HMSA and HMSA Foundation
Community Based Health Impacts Using Social Networks
Jul 2017 – Dec 2019 | **$200,089** | PI

Hawaiʻi Community Foundation
Mapping Social Network in Health Disparate Communities
Jul 2016 – Nov 2017 | **$50,000** | PI

Air Force Office of Scientific Research FA9550-11-1-0173
Tournament Games with Externalities
Jul 2011 – Jun 2014 | **$362,388** | PI

Teaching and graduate mentorship

Graduate teaching

ECON 606 Microeconomic Theory. Fall 2008–2013 and 2015–2025.

ECON 620 Microeconomic Theory III. Spring 2009; Fall 2013, 2015, 2017, 2019, 2022, and 2024.

ECON 651 Public Economics II. Spring 2009 and 2010.

ECON 696 Microeconomics Theory and Experiments Workshop. Fall 2013 and 2015–2026; Spring 2014–2026.

ECON 699 Directed Research. Every semester since Fall 2010.

ECON 730 Research Seminar. Fall 2015–2018.

ECON 732 MA Capstone. Fall 2015–2018; Spring 2016–2018.

Undergraduate teaching

ECON 301 Intermediate Microeconomics. Spring and Fall 2011 and 2012.

ECON 355 Network Economics. Spring 2013, 2015, 2018, 2020, 2022, 2024, and 2025; Fall 2017.

ECON 420 Mathematical Economics. Spring 2010; Fall 2010, 2020, and 2021.

ECON 470 Industrial Organization. Spring 2011–2013.

Doctoral supervision as committee chair

2023 Minh Nguyen — Michigan State University

2023 Zheng Kang — Shenzhen University

2022 Ivan Rivadeneyra Camino — Loyola University Chicago

2021 Krit Phankitnirundorn — University of Hawai'i
2018 Lining Han — Wuhan University
2015 Karl Jandoc — University of the Philippines

Doctoral committee service

2024 Nicole Siegal — Indiana University
2024 Binh Le — Research Corporation of the University of Hawai'i
2024 Rangrang Zheng — University of California San Diego
2019 Deveraux Talagi — University of Hawai'i
2018 Miguel Ángel Vargas Valencia — CIMAT
2018 Kyeongkuk Kim — Korean Government
2017 Siyuan Li — California State University
2016 Pathomwat Chantarasap — Prince of Songkla University
2014 Clay McKell — California Polytechnic State University
2014 Kohei Nitta — FAU Erlangen-Nuremberg
2011 Sean D'Evelyn — Loyola Marymount University
2010 William Olivera — UASP

Master's supervision

2018 Andrew Beckmann — US Army
2016 Luke Hutchinson — State of Hawai'i
2014 Michael Wu — SMS Consulting
2013 Chuong Mai — Vietnam National University

National and institutional service

2021 NIH RADx-UP: Advisor on engaging Hispanic and Latino populations; Advisor on community capacity and impact.
2018 US Department of the Interior, Strategic Sciences Group: research on the socioeconomic impacts of the Kīlauea eruption.
2021–2026 Social Sciences Research Council, College of Social Sciences, University of Hawai'i at Mānoa.
2016–2019 University Graduate Council, College of Social Sciences representative.
2017–2018 Co-chair, Course and Curriculum Committee, University Graduate Council.
2016–2017 Chair, Administrative Admissions Advisory Committee, University Graduate Council.
2019 Selection committee, Frances Davis Award for Excellence in Undergraduate Teaching.
2018 Selection committee, Peter V. Garrod Distinguished Graduate Mentoring Award.
2008–present Economics departmental service on graduate and undergraduate programs, faculty hiring, personnel, placement, seminars, and department chair selection. Additional hiring committee service in the Social Sciences Research Institute.

Select Presentations

2026

Nov 4 American Public Health Association Annual Meeting, San Antonio, TX. Wildfire and health research presentation. Scheduled oral presentation.

Oct 8 International Society of Exposure Science Annual Meeting, Vancouver, Canada. "From Rapid Response to Long-Term Resilience: Innovative Community-Engaged Disaster Research Through the Maui Wildfire Exposure Study." Oral presentation.

Sep 30 Hawai'i Immigration & Inclusion Conference. "Economic Opportunity and Inclusion." Invited panelist.

Sep 10 National Academy of Medicine Climate Collaborative and Global Consortium on Climate and Health Education. Southeast + Islands Learning Collaborative. Invited speaker.

Jul 30 National Institutes of Health, Health and Extreme Weather Program Webinar Series. "Highlighting Wildfire Exposure and Health Research Efforts." Invited speaker.

Jun 15 National Academies of Sciences, Engineering, and Medicine, Forum on Medical and Public Health Preparedness for Disasters and Emergencies. "Wildfire Recovery, Adaptation, and Long-Term Health Impacts." Invited speaker.

May 6 1st National Symposium on Wildfires and Their Impact on the Environment and Health, Rutgers University, Piscataway, NJ. "Beyond Exposure: Mental, Physical, and Social Determinants of Health After the Maui Wildfires." Invited speaker.

Apr 2 Western Economic Association International, 18th International Conference, Chulalongkorn University, Bangkok, Thailand. "Housing Displacement, Employment Disruption, and Mental Health After the 2023 Maui Wildfires." Research presentation.

Jan 14 1st Annual LA Fires Research Conference, University of California, Los Angeles. "Lessons from the Maui Wildfire." Invited luncheon speaker.

Delivered more than 20 additional presentations to community members, policymakers, healthcare organizations, and other Hawai'i stakeholders on MauiWES findings and recovery.

2025

Society for the Advancement of Economic Theory, Ischia, Italy, July.

Workshop on Social Choice, Game Theory, and Mechanism Design in honor of Hervé Moulin's 75th birthday, Glasgow, UK, June.

National Academies of Sciences, Engineering, and Medicine, Health Impacts of Wildfires Panel, Washington, DC, March. Invited speaker.

Delivered more than 20 additional local presentations and participated in more than three dozen meetings advising scientists and community members on wildfire health, social impacts, and sustainable disaster registries, including implications for Los Angeles.

2024

National Academies of Sciences, Engineering, and Medicine, Action Collaborative on Disaster Research, September. Invited speaker.

Society for the Advancement of Economic Theory, Santiago, Chile, January.

Delivered more than 40 local presentations on MauiWES to stakeholders, community meetings, and Hawai'i organizations.

2023

Workshop on Games and Networks, Belfast, UK, July.

Society for the Advancement of Economic Theory, Paris, France, July.

2022

Society for Social Choice and Welfare, Mexico City, Mexico, July.

RCMI Consortium National Conference. "Multidisciplinary Community-based Research to Mitigate COVID-19," March. Invited speaker.

2021

State of Hawai'i House Special COVID Committee. "Getting Back on the Wave in Honolulu," December. Invited speaker.

NIH RADx-UP Inaugural Scientific Meeting. "Empowering Schools as Assets to Mitigate the Spread of the COVID-19 Pandemic," October. Invited speaker.

Hawai'i Business Roundtable. "COVID-19 Mandates: Recommendations for Hawaii Businesses," Honolulu, September. Invited speaker.

Hanahau'oli Professional Development Center. "Safer School Reopening: COVID-19 Strategies for Educators," Honolulu, August 25–26. Invited speaker.

2019

El Colegio de México, November. Invited speaker.

University of Rochester, October. Invited speaker.

University of Ottawa, September. Invited speaker.

Stony Brook International Conference on Game Theory, July.

Society for Economic Design, Budapest, June.

'Aha 'Imi Na'auao: Hawaiian Knowing and Wellbeing, Kapolei, February. Invited speaker.

2018

Ottawa Microeconomic Theory Workshop, October. Invited speaker.

Healthcare Association of Hawaii Inaugural Healthcare Conference, Honolulu, September. Plenary speaker.

Social Choice and Welfare Conference, Seoul, July.

Carnegie Mellon University, April. Invited speaker.

Games and Networks, Belfast, April. Invited speaker.

2017

Virginia Tech, November. Invited speaker.

Latin American Meeting of the Econometric Society, Medellín, November. Invited speaker.

East Asian Game Theory Conference, Singapore, July.

V Dynamic Games and Sciences and Jornadas Latinoamericanas de Teoría Económica, Mexico City, May. Plenary speaker.

Rice University, February. Invited speaker.

Texas A&M University, February. Invited speaker.

2016

Istanbul Technical University, September. Invited speaker.

World Congress of the Game Theory Society, Maastricht, July.

Social Choice and Welfare Conference, Lund, June.
Coalition Theory Networks, Moscow, April.
California State University East Bay, March. Invited speaker.

2015

Université Laval, October. Invited speaker.
University of Rochester, October. Invited speaker.
Université de Montréal, September. Invited speaker.
Econometric Society World Congress, Montréal, August.
Society for Economic Design, Istanbul, July.
University of Glasgow, June. Invited speaker.
Queen's University Belfast, June. Invited speaker.
El Colegio de México, June. Invited speaker.
Western Economic Association Annual Conference, Honolulu, June.
Singapore Management University, March. Invited speaker.
Workshop in Game Theory, Guanajuato, February.
National University of Singapore, January. Invited speaker.

2014

Latin American Econometric Society Meeting, Rio de Janeiro, November.
Social Choice and Welfare Conference, Boston, June.
Economic Science Association International Meeting, Honolulu, June.
Workshop on Games and Networks, Belfast, May.
University of Glasgow, May.
Workshop on Networks and Externalities, Budapest, May.
Queen's University Belfast, March.

2013

Texas A&M University, Microeconomic Theory Seminar, October. Invited speaker.
Asia-Pacific Econometric Society Meeting, Singapore, August.
Public Economic Theory Conference, Lisbon, July.
Conference in Economic Design, Lund, July.
Asia-Pacific Economic Science Association Conference, Tokyo, February.
AFOSR Trust and Influence Program Review, January.

2012

Fourth World Congress of the Game Theory Society, Istanbul, August.
Society for Social Choice and Welfare International Meeting, Delhi, August.
Korean Economic Association Meeting, Seoul, June. Invited speaker.
Public Economic Theory Conference, Taipei, June.

2011

Society for the Advancement of Economic Theory, Faro, June. Invited speaker.

Conference in Economic Design, Montréal, June.

Rice University, March. Invited speaker.

Conference in honor of Hans Haller, February. Invited speaker.

2010

Second Brazilian Workshop in Game Theory, São Paulo, August. Invited speaker.

Society for Social Choice and Welfare International Meeting, Moscow, July.

Workshop in Prior-Free Mechanism Design, Guanajuato, June. Invited speaker.

Southwest Economic Theory Conference, Lake Arrowhead, February.

2009

Universitat Autònoma de Barcelona, November. Invited speaker.

École Polytechnique, Paris, November. Invited speaker.

Stony Brook International Conference on Game Theory, July.

Society for Economic Design, Maastricht, June.

Université de Montréal, May. Invited speaker.

Social Computing and Behavioral Modeling Workshop, April.

2008

ITAM-CIE Economics Seminar, November. Invited speaker.

Latin American Econometric Society Meeting, Rio de Janeiro, November.

Rice University Microeconomic Theory Seminar, November.

Game Theory Society World Congress, Evanston, July.

Society for Social Choice and Welfare International Meeting, Montréal, June.

Society for Economic Design, Ann Arbor, June.

El Colegio de México, May. Invited speaker.

2007

Rice University Microeconomic Theory Seminar, October.

Stony Brook International Conference on Game Theory, July.

Society for the Advancement of Economic Theory, Kos, June.

Public Economic Theory Conference, Nashville, June.

2006

Society for the Advancement of Chicanos and Native Americans in Science, Tampa, October. Invited speaker.

Society for Social Choice and Welfare International Meeting, Istanbul, July.

Stony Brook International Conference on Game Theory, July.

Conference organization

2025 Main organizer, Workshop on Social Choice, Game Theory, and Mechanism Design in honor of Hervé Moulin's 75th birthday, Glasgow, UK, June.

2024 Main organizer, "Enhancing Resilience: Building Sustainable Health Registries for Disaster-Affected Communities," Maui Wildfire Exposure Study, Lahaina, Hawai'i, December.

2023 Main organizer, Social Networks and Health Workshop, Honolulu, May.

2022 Organizer, 15th Meetings of the Society for Social Choice and Welfare, Mexico City, June.

2014 Organizer, Economic Science Association International Meeting, Honolulu, June.

2013 Main organizer, Southwest Economic Theory Conference, Honolulu, March.

2010 Main organizer, Prior-Free Mechanism Design Workshop, Guanajuato, May.

Community partnerships and public engagement

Research and service partnerships connect longitudinal evidence with health services, community priorities, and policy decisions. Selected collaborations include:

- **Disaster recovery.** Roots Reborn, Maui Medic Healers Hui, Tagnawa for Maui, Healthy Mothers Healthy Babies, and other Maui organizations supporting wildfire health research and access to services.
- **Community health and education.** AHARO Network and federally qualified health centers, including Wai'anae Coast Comprehensive Health Center and Waimānalo Health Center; the Hawai'i Department of Education and public and charter schools; MA'O Organic Farms; Hawai'i Alzheimer Disease Initiative; and the National Asian Pacific Center on Aging.
- **Economic opportunity and program evaluation.** City and County of Honolulu, chambers of commerce, We Are Oceania, The Food Basket, and the Sustainable Living Institute of Maui, supporting needs assessments and evaluation of health, food security, and small-business programs.
- **Immigrant inclusion.** Hispanic Chamber of Commerce Hawai'i and the Consulate General of Mexico in San Francisco, supporting community needs assessments, outreach, and connections to services.

Selected media engagement

Research and commentary featured in more than 1000 articles and news stories by PBS NewsHour, The Washington Post, The Guardian, CBS News, Science Friday, Science, Inside Climate News, and national and international news outlets. Regular engagement with Honolulu Civil Beat, the Honolulu Star-Advertiser, Hawai'i Public Radio, and Hawai'i News Now addresses disaster recovery, health disparities, and public policy.

Recent engagement includes PBS NewsHour coverage of Maui recovery and health research in August 2026, national reporting on wildfire-associated metal exposure in September and October 2026.

Professional memberships

2020–present American Public Health Association

2008–present Econometric Society; Society for the Advancement of Economic Theory

2007–present Game Theory Society