

RUBEN JUAREZ

Curriculum Vitae

University of Hawaii

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Department of Economics

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PERSONAL DETAILS

Citizenship: Mexico, USA

DOB: March 5, 1982

EDUCATION

- Ph.D. Economics, Rice University. May 2008.
Supervisor: Hervé Moulin.
- B.S. Mathematics, CIMAT-Universidad de Guanajuato. June 2004.

RESEARCH INTERESTS

- Microeconomic Theory
- Game Theory
- Network Economics
- Mechanism Design
- Cost Sharing

PROFESSIONAL EXPERIENCE

- Associate Professor in Economics, University of Hawaii, August 2014-Present
- Research Fellow, UH Economics Research Organization (UHERO), July 2011-Present
- Graduate Chair in Economics, University of Hawaii, August 2015-January 2019
- Visiting Professor in Economics, University of Montreal, August 2014-May 2015
- Assistant Professor in Economics, University of Hawaii, August 2008-July 2014

RESEARCH

1. Dissection of cooperative solutions in game theory using representation techniques (joint with L. Hernandez and F. Sanchez).
International Journal of Game Theory (2008)
<https://doi.org/10.1007/s00182-006-0036-3>
2. The Worst Absolute Surplus Loss in the Problem of Commons: Random Priority vs. Average Cost.
Economic Theory (2008)
<https://doi.org/10.1007/s00199-006-0165-8>
3. Solutions without dummy axiom for TU cooperative games.
Economics Bulletin (2008)
<https://EconPapers.repec.org/RePEc:ebl:ecbull:eb-07c70040>
4. Prior-free cost-sharing design: group strategyproofness and the worst absolute loss.
Social Computing and Behavioral Modeling (2009)
https://doi.org/10.1007/978-1-4419-0056-2_16
5. Implementing Efficient Graphs in Connection Networks.
Economic Theory (2013)
<https://doi.org/10.1007/s00199-012-0720-4>
6. Group strategyproof cost sharing: the role of indifferences.
Games and Economic Behavior **82** (2013)
<https://doi.org/10.1016/j.geb.2013.07.005>
7. Towards an Economics of Irrigation Networks (joint with K. Jandoc and J. Roumasset).
Routledge Handbook of Water Economics and Institutions (2015)
<https://bit.ly/2D4TEKU>
8. Self-enforcing Coalitions with Power Accumulation (joint with Karl Jandoc)
International Journal of Game Theory (2017)
<https://doi.org/10.1007/s00182-016-0538-6>
9. Optimality of the Uniform Rule under Single-peaked Preferences (joint with Jung You)
Economics Theory Bulletin (2018)
<https://doi.org/10.1007/s40505-018-0141-z>
10. Free Intermediation in Resource Transmission (joint with Lining Han).
Games and Economic Behavior (2018)
<https://doi.org/10.1016/j.geb.2018.06.006>
11. Sharing Sequential Values in a Network (joint with C. Ko and J. Xue).
Journal of Economic Theory (2018)
<https://doi.org/10.1016/j.jet.2018.08.004>

12. Routing-proofness in Congestion-prone Networks (joint with M. Wu)
Games (2019)
<https://doi.org/10.3390/g10020017>
13. Continuous Mechanism Design. Ed. J.F. Laslier, H. Moulin, R. Sanver, W.S. Zwicker
The Future of Economic Design (2019)
<https://doi.org/10.1007/978-3-030-18050-8>
14. An Experimental Study of Self-Enforcing Coalitions (joint with K. Jandoc)
Games (2019)
<https://doi.org/10.3390/g10030031>
15. Profit Sharing and Efficient Time Allocation (joint with K. Nitta and M. Vargas)
Conditionally Accepted, *Economic Theory* (2019)

Submissions

16. Incentive Compatible Simple Mechanisms (joint with J. You) (2019)
17. Economic Networks with Incentives: The Mobile Money Case in Ecuador (joint with I. Rivadeneyra and D. Suthers) (2019)
18. Optimal group strategyproof cost sharing (2019)
19. Forming Coalitions under Sharing Disagreements (joint with K. Jandoc) (2019)
20. Non-cooperative bargaining with unsophisticated agents (joint with K. Trejo, J. Clempner and A. Poznyak) (2019)
21. Robust Equilibria in Tournaments with Externalities (joint with M. Vargas) (2019)

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Working papers (drafts available on my website <http://www2.hawaii.edu/~rubenj>)

1. Strategy-proof division of a dollar in a network (joint with L. Han and R. Kumar) (2019)
2. Sharing Profits by Ranking Partners (joint with C. Ko, C. Mai, J. You) (2019)
3. Truthful Intermediation with Monetary Punishment (joint with L. Han) (2019)
4. Collusion-proof cost sharing (2018)
5. Convex rationing solutions (2017)

Work in Progress (available upon request)

Very active work in progress:

6. Peer Effects in Diabetes: Evidence from Waianae (joint with K. Phankitnirundorn and A. Maunakea) (2019)
7. Social influences on the gut microbiome composition associates with obesity risk in Native Hawaiian and Pacific Islanders (joint with K. Phankitnirundorn, R. Wells, A. Sigmund, R. Peres, R. Sultana and A. Maunakea) (2019)
8. Efficient Implementation in Sharing Problems (joint with M. Vargas) (2019)
9. Efficient Dynamic Revenue Sharing (joint with J. Xue and C. Ko) (2019)
10. Strong Efficiency in Profit Sharing (joint with K. Nitta and M. Vargas) (2019)
11. Impartial division of a dollar: A general characterization (2018)

In transition:

12. Optimal collusion-proof mechanism in a network
13. Optimal group strategyproof mechanisms for divisible goods (joint with Sidartha Gordon)
14. Aggregating student rankings
15. Group strategyproof double auctions: a negative result

GRANTS AND AWARDS

Pending Support

National Institute of Health
01/01/2020-12/31/2024 **\$3,891,328**
Immunoepigenetic-gut microbiome axis in the social networks of health disparate youth
Role: co-Investigator
Scored: 13%-quantile (pending)

Ongoing Research Support

HMSA and HMSA Foundation
07/01/2017-12/31/2019 **\$200,089**
Community Based Health Impacts Using Social Networks.
Role: Principal Investigator

Kamehameha Schools
07/01/2018-06/30/2020 **\$100,000**
Determining the Health Impacts of 'Āina-Based Programs
Role: Principal Investigator

National Asian Pacific Center on Aging
06/01/2018-12/31/2019 **\$120,000**
Behavioral Risk Factor Surveillance System, AAPI Language Access Project and Dementia Friends Translation Project
Role: Co-Investigator

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Completed Research Support

University of Hawaii, C-MAIKI	
01/01/2018-06/30/2019	\$10,000
Investigating the Gut Microbiome in Social Networks	
Role: co-Principal Investigator	
Hawaii Community Foundation	
07/01/2016-11/01/2017	\$50,000
Mapping Social Network in Health Disparate Communities	
Role: Principal Investigator	
Air Force Office of Scientific Research FA9550-11-1-0173	
07/01/2011-06/30/2014	\$362,388
Tournament Games with Externalities	
Role: Principal Investigator	
Air Force Office of Scientific Research	
02/01/2007-06/30/2010	\$1,611,416
Role: co-Investigator (Post-award)	

Awards

Air Force Office of Scientific Research, Young Investigator Award 2011

Gold medal, National Mathematical Olympiad 1998

SERVICE

FEDERAL

- United States Department of Interior, Strategic Sciences Group, 2018

UNIVERSITY OF HAWAII

- University of Hawaii Graduate Council
 - College of Social Sciences Representative, January 2016-July 2019
 - Course and Curriculum Committee Co-Chair, August 2017-July 2018
 - Administrative-Admissions-Advisory Chair, August 2016-July 2017
 - Selection Committee Members for the 2018 Peter V. Garrod Distinguished Graduate Mentoring Award
 - Selection Committee Members for the 2019 Frances Davis Award for Excellence in Undergraduate Teaching
- College of Social Sciences
 - Social Sciences Research Institute APT Hiring Committee 2018-2019
- University of Hawaii Economics Department
 - Director of Graduate Studies, August 2015-December 2018
 - 3-4 Departmental Committees per year since Fall 2008 including:
 - Economics Dept. Chair Selection, Graduate Program Committee, Undergraduate Program Committee, Faculty Hiring Committee, Departmental Personnel Committee, Seminar Committee,...

CONFERENCE ORGANIZATION

15th Meetings of the Society for Social Choice and Welfare, Mexico City, Mexico, June 2020

Economics Science Association International Meeting, Honolulu, Hawaii, June 2014

Southwest Economic Theory conference, Honolulu, Hawaii, March 2013 (Main Organizer)

Prior-free mechanism design, Guanajuato, Mexico, May 2010. (Main Organizer)

REFEREE WORK

Approximately 2 per month: Games and Economic Behavior, Journal of Economic Theory, Theoretical Economics, Econometrica, Economic Theory, International Journal of Game Theory, Mathematical Social Sciences, Economics Letters, Journal of Mathematical Economics, Economics Bulletin, BE Journal of Theoretical Economics, Social Choice and Welfare, SERIEs, Operations Research, Electronic Commerce, Proceedings of the Third Erich L. Lehmann Symposium, Symposium on Theoretical Aspects of Computer Science, Theory and Decision, Discrete Applied Mathematics, Review of Economic Design, Philosophy East and West, AFOSR, NSF, Social Sciences and Humanities Research Council of Canada, Springer Books, Annals of Operations Research, Social Computing and Behavioral Modeling, European Journal of Operations Research, Artificial Intelligence, Games, Reliability Engineering and System Safety,...

RECENT MEDIA

[Changing Habits Yields Health Benefits At MA'O Farms In Waianae, Civil Beat \(7/19\)](#)

[Ma'o Farms: A 60% improvement in diabetes risk found in a study done by UH, KITV \(3/19\)](#)

[UH/MA'O Farms data show 60% improvement in diabetes risk, UH News \(2/19\)](#)

[University of Hawaii study of Ma'o Farms shows interns reaping health benefits, Star Advertiser \(2/19\)](#)

[Can 'Aina-based educational programs improve a person's health and well-being? Kamehameha Schools IMUA Magazine \(1/19\)](#)

[UH Studies How People's Connections With Land Affect Their Health, Civil Beat \(3/18\)](#)

[Study examines social and economic impacts on health in Wai'anae, UH News \(1/18\)](#)

[Economics professor awarded grant to research how coalitions are formed, UH News \(7/11\)](#)

TEACHING

Regular teaching load of four semester-courses per year in addition to a year-round Microeconomic workshop and student advising. Some of the classes taught include:

Graduate:

Econ 732 MA Capstone (Fall 2015, 2016, 2017, 2018, Spring 2016, 2017, 2018)

Econ 730 Research Seminar (Fall 2015, 2016, 2017, 2018)

Econ 699 Directed Research (about every semester since Fall 2010)

Econ 696 Microeconomics (Theory & Experiments) Workshop (Fall 2013, 2015, 2016, 2017, 2018, 2019 Spring 2014, 2015, 2016, 2017, 2018, 2019)

Econ 651 Public Economics II (Spring 2009, 2010)

Econ 620 Microeconomic Theory III (Spring 2009, Fall 2013, 2015, 2017, 2019)

Econ 606 Microeconomic Theory (Fall 2008, 2009, 2010, 2011, 2012, 2013, 2015, 2016, 2017, 2018, 2019)

Undergraduate:

Econ 470 Industrial Organization (Spring 2011, 2012, 2013)

Econ 420 Mathematical Economics (Spring 2010, Fall 2010)

Econ 355 Network Economics (Spring 2013, 2015, 2018, 2020 Fall 2017)

Econ 301 Intermediate Microeconomics (Spring 2011, 2012 Fall 2011, 2012)

STUDENTS

Ph.D. Chair

Karl Jandoc (University of Philippines, 2015)

Lining Han (Wuhan University, 2018)

Krit Phankitnirundorn (Expected, 2021)

Ivan Rivadeneyra Camino (Expected, 2021)

Kang Zheng (Expected, 2022)

Ruben Juarez (CV)

Ph.D. Committee

Deveraux Talagi (University of Hawaii, 2019)

Miguel Ángel Vargas Valencia (CIMAT, 2018)

Kyeongkuk Kim (Korean Government, 2018)

Siyuan Li (California State University, 2017)

Pathomwat Chantarasap (Prince of Songkla University, 2016)

Clay McKell (California Polytechnic State University, 2014)

Kohei Nitta (FAU Erlangen-Nuremberg, 2014)

Sean D'Evelyn (Loyola Marymount U, 2011)

William Olivera (UASP, 2010)

M.A. Committee

Andrew Beckmann (U.S. Army, 2018)

Luke Hutchinson (State of Hawaii, 2016)

Michael Wu (SMS Consulting, 2014)

Chuong Mai (Vietnam National University, 2013)

MEMBERSHIP IN PROFESSIONAL SOCIETIES

The Econometric Society

Society for Social Choice and Welfare

Society for Economic Design

Game Theory Society

Society for the Advancement of Economic Theory

Society for the Advancement of Chicanos and Native Americans in Science (SACNAS)

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PRESENTATIONS AT CONFERENCES, WORKSHOPS AND RESEARCH VISITS

The Eight International meeting of the Society for Social Choice and Welfare, Istanbul, Turkey, July 2006.

The 17th International Conference in Game Theory, Stony Brook, NY, July 2006.

Society for the Advancement of Chicanos and Native Americans in Science, Tampa, FL, October 2006. (Invited)

The SAET conference on current trends in economics, Kos, Greece, June 2007.

Public Economic Theory Conference, Nashville, TN, June 2007.

The 18th International Conference on Game Theory, Stony Brook, NY, July 2007.

Rice University Microeconomic Theory Seminar, October 2007.

Colegio de Mexico, Departmental Seminar, May 2008 (Invited)

The Ninth International meeting of the Society for Social Choice and Welfare, Montreal, Canada, June 2008.

Society for Economic Design, Ann Arbor, MI, June 2008

Third World Congress of the Game Theory Society, Evanston, IL, July 2008

Latin American Econometric Society Meeting, Rio de Janeiro, Brazil, November 2008

Rice University Microeconomic Theory Seminar, November, 2008

ITAM-CIE Economics Seminar, November 2008 (Invited)

Social computing and behavioral modeling workshop, April 2009

University of Montreal Microeconomic Theory Seminar, May 2009 (Invited)

Society for Economic Design, Maastricht, The Netherlands, June 2009

The 20th International Conference on Game Theory, Stony Brook, NY, July 2009

Universitat Autònoma de Barcelona Seminar, Barcelona Spain, November 2009. (Invited)

L'Ecole Polytechnique Seminar, Paris, France, November 2009. (Invited)

Southwest Economic Theory Conference, Lake Arrowhead, UCLA, California, February 2010.

Workshop in Prior-Free Mechanism Design, Guanajuato, Mexico, June 2010. (Invited)

The Tenth international meeting of the Society for Social Choice and Welfare, Moscow, Russia, July 2010.

Second Brazilian workshop in Game Theory, Sao Paulo, Brazil, August 2010. (Invited)

Bargaining, Evolution and Networks: A Conference in Honor of Hans Haller, February 2011 (Invited)

Rice University Microeconomic Theory Seminar, March 2011 (Invited)

Conference in Economic Design, Montreal, CA, June 2011

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Society for the Advancement of Economic Theory, Faro, Portugal, June 2011 (Invited)
Public Economic Theory Conference, Taipei, Taiwan, June 2012
Korean Economic Association Meeting, Seoul, Korea, June 2012 (Invited)
4rd World Congress of the Game Theory, Istanbul, Turkey August 2012
The 11th International Meeting of the Society for Social Choice and Welfare, Delhi, India, August 2012
Airforce Office of Scientific Research, Trust and Influence Program Review, January 2013 (Invited)
Asia-Pacific Economic Science Association Conference, Tokyo, Japan, February 2013
Public Economic Theory Conference, Lisbon, Portugal, July 2013
Conference in Economic Design, Lund, Sweden, July 2013
Asia-Pacific Econometric Society Meeting, Singapore, August 2013
Texas A&M Microeconomic Theory Seminar, October 2013 (Invited)
Queens University Belfast, Belfast, UK, March 2014
Workshop on Games and Networks, Belfast, UK May 2014
University of Glasgow, Glasgow, UK, May 2014
Second Workshop on Networks and Externalities, Budapest, Hungary, May 2014
Social Choice and Welfare Conference, Boston, MA, June 2014
Economic Science Association International Meeting, Honolulu, HI, June 2014
Université de Montréal, Economics Department, Montreal, QC, September 2015 (Invited)
Université Laval, Economics Department, Quebec City, QC, October 2015 (Invited)
University of Rochester, Economics Department, Rochester, NY, October 2015 (Invited)
Latin American Econometric Society Meeting, Rio de Janeiro, Brazil, November 2014
National University of Singapore, Economics Department, Singapore, January 2015 (Invited)
Singapore Management University, Economics Department, Singapore, March 2015 (Invited)
University of Glasgow, Economics Department, Glasgow, UK, June 2015 (Invited)
Queens University Belfast, Economics Department, Belfast, UK, June, 2015 (Invited)
El Colegio de Mexico, Economics Department, Mexico City, Mexico, June 2015 (Invited)
90th Annual Conference of the Western Economic Association, Honolulu, HI, June 2015
Society for Economic Design, Istanbul, Turkey, July 2015
World Congress of the Econometric Society, Montreal, QC, August 2015
Workshop in Game Theory, Guanajuato, Mexico, February, 2015

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California State University, East Bay, California, March 2016 (Invited)

Coalition Theory Networks, Moscow, Russia, April 2016

Social Choice and Welfare Conference, Lund, Sweden, June 2016

The World Congress of the Game Theory Society, Maastricht, Netherlands, July 2016

Istanbul Technical University, Istanbul, Turkey, September 2016 (Invited)

Latin American Meeting of the Econometric Society, Medellin, Colombia, November 2017 (Invited)

Rice University, Houston, Texas, Departmental Seminar, February 2017 (Invited)

Texas A&M, College Station, Texas, Departmental Seminar, February 2017 (Invited)

V Dynamic Games and Sciences and Jornadas Latinoamericanas de Teoria Economica, Mexico City, Mexico May 2017 (Plenary speaker)

East Asian Game Theory conference, Singapore, Singapore July 2017

Virginia Tech, Departmental Seminar, Blacksburg, Virginia, November 2017 (Invited)

Carnegie Mellon University, Departmental Seminar, April 2018 (Invited)

Games and Networks, Belfast, United Kingdom, April 2018 (Invited)

Social Choice and Welfare Conference, Seoul, Korea, July 2018

2018 Inaugural Healthcare Conference: Building a Stronger, Healthier Hawaii: Integrate, Innovate & Inspire, Healthcare Association of Hawaii, Honolulu, Hawaii, September 2018 (Plenary speaker)

Ottawa Microeconomic Theory Workshop, Ottawa, Canada, October 2018 (Invited)

‘Aha ‘Imi Na‘auao: Hawaiian Knowing and Wellbeing, Kapolei, Hawaii, February 2019 (Invited)

Society for Economic Design, Budapest, Hungary, June 2019

The 30th Stony Brook International Conference on Game Theory, July 2019

University of Ottawa Departmental Seminar, September 2019 (Invited)

University of Rochester Departmental Seminar, October 2019 (Invited)

Colegio de Mexico, Departmental Seminar, Mexico City, Mexico, November 2019 (Invited)

Research Statement

Over the last 11 years, my research interests have focused on the areas of microeconomic theory, game theory, and network economics. In particular, I have been studying the design of mechanisms and institutions for the efficient, incentive compatible and fair allocation of costs and resources in the presence of externalities (*e.g.*, behaviors, coalitions, or network effects). In these areas, I have consistently published in top field journals such as the *Journal of Economic Theory*, *Games and Economic Behavior*, *Economic Theory*, the *International Journal of Game Theory and Games*. In addition to my work on theory, I actively participate in research as evidenced by my role as principal investigator on several grants from a variety of local and national funding agencies, including the Hawaii Medical Service Association, Kamehameha Schools, the Hawaii Community Foundation, and the Air Force Office of Scientific Research and co-investigator in several other grants. I am passionate about developing theoretical microeconomic models, especially those that can be derived from real-world community-based settings to make a positive impact on society. My goal is to continue expanding these research interests by collaborating in multidisciplinary research environments, including in particular the health sciences where opportunities abound for incorporating microeconomic theory in addressing social and resource allocation issues. The following summarizes my general research experiences by interest area:

Prior-free mechanism design. During the course of my research, I have designed mechanisms in settings where the planner does not have enough information about the participants to be able to form a prior belief about characteristics of the agents. This may apply to a planner dealing with agents in a large and complex network. As examples, the planner of an auction might not know whether or not a group of agents know each other and may collude or coordinate bids; in routing games, the planner might not know whether or not the agents can coordinate routes. My research identified robust mechanisms that do not use specific knowledge about the information held by the agents in the economy but instead works for a wide variety of circumstances. In this area, I have designed cost-sharing mechanisms that are immune to coalition maneuvers by agents (*Games and Economic Behavior*, 2013); and have also applied worst-case measures to evaluate the performance of mechanisms in routing networks (*Economic Theory*, 2013), scheduling problems (*Economic Theory*, 2008), and resource sharing (*Economic Theory Bulletin*, 2018). Further, I am currently working on characterizing optimal group strategy-proof cost-sharing mechanisms (*in review*) and routing-proof mechanisms in congestion prone networks (*Games*, 2019).

Resource and cost-sharing in networked problems. One of the largest unexplored issues in mechanism design occurs in the presence of network externalities. My research has explored the axiomatic and implemented sharing in sequential processes (*Journal of Economic Theory*, 2018), the sharing of profits in companies (*Economic Theory*, CA), and the sharing of profits by ranking partners (*in review*). In addition, I have explored the role of transmission of divisible resources in the presence of intermediaries (*Games and Economic Behavior*, 2018), characterized incentive compatible mechanisms when the planner has the ability to punish intermediaries when they misreport their ability to transmit the resource (*in preparation*), and studied the optimal sharing of water in irrigation networks (*Handbook of Water Economics and Institutions*, 2015). My research in this area continues to expand, as I am currently designing theoretical models of strategy-proof sharing mechanisms in the presence of externalities (*in preparation*), the sharing of revenues in dynamic problems (*in preparation*), the study of economic incentives in mobile money in Ecuador (*under review*), and the study of network externalities in health (see below).

Coalition formation and cooperative games. My early work in game theory included axiomatic characterizations of solutions in cooperative games (*International Journal of Game Theory*, 2008 and *Economics Bulletin*, 2008). More recently, my work in the area of coalition formation has been to construct equilibria that predict which coalitions form when agents are endowed with power (e.g. political or military) with externalities across agents (e.g., altruism generated by cultural characteristics such as race, language, religion or ancestral homeland). As part of this project, my models were introduced, tested and applied to technology developed by the Air Force Office of Scientific Research (AFOSR) via grants AFOSR Coherence-Based Modeling of Cultural Change and Political Violence (CCPV) and AFOSR Young Investigator Program, in which I participated. Some of the models and equilibria I developed include the study of self-enforcing coalitions for dynamic coalition formation settings (*International Journal of Game Theory*, 2017), which were tested in a laboratory setting (*Games*, 2019). Further, I am currently studying the formation of coalitions when agents have sharing disagreements (*in review*) and robust coalition formation equilibria in the presence of externalities (*in review*).

Community-based research. I have a solid background in mathematics and theoretical microeconomics that I apply to diverse fields beyond economics. Indeed, as the only researcher working in games, mechanism design and network economics in Hawaii, my goal is to apply my knowledge to relevant projects that affect the state and the nation. As such, I have been working on strategies to implement incentives that improve the efficiency of resource allocation in electricity, water networks, and health care in the state. For instance, over the last three years I have been focused a substantial part of my research studying issues related to public health and health disparities, where my expertise in social and economic networks can address problems from a perspective that has not been explored before in the state of Hawaii especially with respect to economic modeling, public policy, and institutional design. Health disparities within Hawaii is one of the most pressing public health concerns where an understanding of social and economic networks can play a major role both in explaining the origins of such disparities and in addressing them. In partnership with a researcher at the John A. Burns School of Medicine at the University of Hawaii and partly funded the largest health care insurer in Hawaii (HMSA and HMSA Foundation) with supplemental support by local funding agencies (Kamehameha Schools, Hawaii Community Foundation, and the University of Hawaii C-MAIKI program) and pending R-01 support by NIH (fundable score of 13%), we have been mapping social networks and identifying nodes of detrimental interactions that may be modified to reverse the increased prevalence of diseases of health disparity in Native Hawaiian and Pacific Islander populations. Importantly, we are measuring the impact that community-based programs focused on education and socioeconomics in the state have on the health of individuals using a social network approach. Such novel work has opened opportunities for collaboration with other community partners throughout the state, measuring the impact of interventions such as that applied by *Dementia Friends*. These research activities add a unique multidisciplinary component to my previous theoretical work that I envision to continue being vital to linking social scientists with health researchers in the state of Hawaii.