

## **RUBEN JUAREZ**

### Curriculum Vitae

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University of Hawaii

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### **PERSONAL DETAILS**

Citizenship: Mexico, USA

DOB: March 5, 1982

### **EDUCATION**

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

### **RESEARCH INTERESTS**

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

### **PROFESSIONAL EXPERIENCE**

- Associate Professor and Graduate Chair, University of Hawaii, August 2015-Present
- Associate Professor in Economics, University of Hawaii, August 2014-Present
- Visiting Professor in Economics, University of Montreal, August 2014-May 2015
- Assistant Professor in Economics, University of Hawaii, August 2008-July 2014

## GRANTS AND AWARDS

- Kamehameha Schools  
“Determining the Health Impacts of ‘Āina-Based Programs.” (co-PI)  
\$100,000; 2018-2019
- Hawaii Medical Science Association Foundation  
“Community Based Health Impact using Social Networks.” (PI)  
\$200,089; 2017-2018
- Hawaii Community Foundation,  
“Social and Economic Networks in Health Disparate Communities.” (PI)  
\$50,000; 2016-2017
- Air Force Office of Scientific Research, Young Investigator Program 2011.  
“Tournament Games with Externalities.” (PI)  
\$362,388; 2011-2014
- Gold medal, National Mathematical Olympiad 1998

## 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](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). *Handbook of Water Economics and Institutions* (2015)  
<http://www2.hawaii.edu/~rubenj/water.pdf>
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. Continuous Mechanism Design. *Future of Economic Design*. Springer, Ed. J.F. Laslier, H. Moulin, R. Sanver, W.S. Zwicker (forthcoming, 2018)
10. Optimality of the Uniform Rule under Single-peaked Preferences (joint with Jung You)  
*Economics Theory* (Bull, 2018)  
<https://doi.org/10.1007/s40505-018-0141-z>
11. Free Intermediation in Resource Transmission (joint with Lining Han). *Games and Economic Behavior* (2018)  
<https://doi.org/10.1016/j.geb.2018.06.006>
12. Sharing Sequential Values in a Network (joint with C. Ko and J. Xue). *Journal of Economic Theory* (conditionally accepted) (2018)

#### Submissions

13. Profit Sharing and Efficient Time Allocations (joint with K. Nitta and M. Vargas) (2018)
14. An Experimental Study of Self-Enforcing Coalitions (joint with K. Jandoc) (2018)
15. Optimal group strategyproof cost sharing (2018)
16. Optimal division of a dollar under ordinal reports (joint with C. Mai) (2018)
17. Envy-Free and Incentive-Compatible Division of a Commodity (joint with J. You) (2018)
18. The no-threat equilibrium in tournament games with externalities (joint with M. Vargas) (2018)

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

1. Strategy-proof division of a dollar in a network (joint with R. Kumar) (2018)  
First Target: *Econometrica*
2. Incentive Compatible Resource Transmission with Punishment (joint with L. Han) (2018)  
First Target: *Econometrica*
3. Impartial division of a dollar: A general characterization (joint with H. Moulin) (2015)  
First Target: *Econometrica*

4. Routing-proofness in Congestion-prone Networks (joint with M. Wu) (2018)  
First Target: Games and Economic Behavior
5. The effects of sharing rules in endogenous coalition formation (joint with K. Jandoc) (2018)  
First target: Journal of Mathematical Economics
6. Collusion-proof cost sharing (2017)  
First target: Journal of Mathematical Economics
7. Convex rationing solutions (2016)  
First target: Journal of Economic Theory

Work in Progress (preliminary progress available upon request)

Very active work in progress:

8. Community Health Impacts using Social Networks (joint with A. Maunakea, A. Sigmund, L. Han and K. Phankitnirundorn)
9. Investigating the Impact of Community-Based Programs on Gut Microbiome and Diabetes Risk in the Social Networks of Native Hawaiians and Pacific Islanders (joint with A. Sigmund, R. Wells, J. Doherty, C. Dye, R. Sultana and A. Maunakea)
10. Mobile Money Networks in Ecuador: Theory and Empirics (joint with Ivan Rivadeneyra Camino)
11. Efficient Implementation in Sharing Problems (joint with M. Vargas)
12. Efficient Dynamic Revenue Sharing (joint with J. Xue and C.Y. Ko)

Dormant:

13. Monotonic solutions to the expert aggregation problem
14. Optimal collusion-proof mechanism in a network
15. Optimal group strategyproof mechanisms for divisible goods (joint with Sidartha Gordon)
16. Aggregating student rankings
17. Group strategyproof double auctions: a negative result

## **UNIVERSITY OF HAWAII SERVICE**

- 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
- University of Hawaii Economics Department
  - Director of Graduate Studies, August 2015-December 2018
  - 3-4 Departmental Committees per year since Fall 2008

## **TEACHING**

### **(Four semester classes per year)**

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

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

Econ 699 (approximately every semester since Fall 2010)

Econ 696 (Fall 2013, 2015, 2016, 2017, 2018, Spring 2014, 2015, 2016, 2018)

Econ 651 Public Economics II (Spring 2009, 2010)

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

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

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

Econ 420 Mathematical Economics (Spring 2010, Fall 2010)

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

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

## **STUDENTS**

### PhD Chair

Lining Han (Wuhan University, 2018)

Karl Jandoc (University of Philippines, 2015)

### PhD Committee

Krit Phankitnirundorn (Expected, 2021)

Ivan Rivadeneyra Camino (Expected, 2021)

Deveraux Talagi (Expected, 2020)

Kristal Trejo (Expected, 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)

#### MA

Andrew Beckmann (2018)  
Luke Hutchinson (2016)  
Michael Wu (2014)  
Chuong Mai (2013)

#### **CONFERENCE ORGANIZATION**

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 once per month since 2008: Games and Economic Behavior, Journal of Economic Theory, Theoretical Economics, 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, Philosophy East and West, AFOSR, NSF, Social Sciences and Humanities Research Council of Canada, Springer (Book), Annals of Operations Research, Social Computing and Behavioral Modeling, European Journal of Operations Research

#### **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)

## **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 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

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)

4<sup>th</sup> World Congress of the Game Theory, Istanbul, Turkey August 2012

The 11<sup>th</sup> 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  
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 (semi-plenary speaker), 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)

Last update: June 2018