

CURRICULUM VITA James A. Roumasset

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

M.A., Economics, University of Hawaii; Fields: Agricultural Economics, Mathematical Economics

Ph.D., Economics, University of Wisconsin, Madison; Fields: Public Economics, Economic Development, Advanced Theory

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University Appointments

University of Hawaii, Manoa, 1976-1982 and 1982-present: Associate Professor and Professor (Environmental and Resource Economics, Economic Development, Public Microeconomics).

2008-present Research Fellow, UHERO

University of the Philippines, Diliman and Los Baños 1978-1979 and 2013-present: Visiting Professor (Economics of Agricultural Development, Research Methodology, Advanced Microeconomics, Social Organization of Agriculture, and Agricultural Policy for Development, Resource Economics, Energy Economics, Disaster Economics)

University of California, Davis, 2007: Agricultural Extension Specialist (Organizer, First Occasional All-UC Water Retreat, Dec 20 at UC Davis).

Australian National University, Canberra Summer 1981: Visiting Professor (Risk and Decision-Making, and Agricultural Development)

University of Maryland, College Park; Spring 1985: Visiting Professor (Production Economics, Economics of Agricultural Development)

Yale University, New Haven 1985: Visiting Fellow (Population and Rural Development, Economic Policy for Agricultural Development)

University of California, Davis, 1972-1976: Assistant Professor (Graduate and Undergraduate Public Economics, Econometrics, and Decision- Making under Uncertainty)

Research/Administrative Positions:

Graduate Placement Officer, 2014-16.

Chair, Tenure Promotion and Review Committee, Economics Department, UHM, 2012-3

University of Hawaii, Manoa Working Group on Sustainability Curriculum, 2012-3

Program Committee, European Association of Environmental and Resource Economists Annual Conference (Rome), 2012

Program Committee, American Association of Environmental and Resource Economists Annual Workshop (Seattle), 2012

Environmental Director for UHERO, 2009-2012

Board of Editors, *Contemporary Economic Policy*, 2007-2011.

Board of Editors, *Asian Journal of Agricultural Economics*, Ongoing.

Editorial Advisory Board, *Asian Journal of Agriculture and Development*, Ongoing.

Universities Council on Water Resources, 2010.

Professional activities

Referee for eight journals in environmental economics, agricultural and resource economics, public economics, international and development economics, and industrial organization (12-15 manuscripts per year).

Recent conference and workshop presentations

90th Annual Conference of the Western Economic Association International, Honolulu, Hawaii, June 28-July 3, 2015.

International Conference of the Western Economic Association International, Wellington, NZ, January 7-12, 2015

Annual Meeting of the Philippine Economic Society, Makati City, November 14, 2014

12th and 13th Occasional California Workshops on Environmental and Resource Economics. University of California at Santa Barbara November 12-13, 2010 and February 24 - 25, 2012.

International Energy Workshop, Stanford University, Palo Alto, CA, July 6-8, 2011

SEARCA-UH-EWC-IFPRI Workshop on “Sustainability Science for Food, Forest, and Floods: Integrating Climate Adaptation and Pro-Poor Resource Management, Honolulu, May 27-28, 2010.

Addressing the Impacts of Climate Change in the Philippine Agriculture Sector: Project Inception Workshop, NEDA-IFPRI, Eastwood Richmond Hotel, QC January 13- 14, 2014

NEDA-PCED-UPSE Social Protection Forum, April 15, 2013, Manila

“Risk, Resources, Governance and Development: Foundations of Public Policy,” Dec. 7-8, 2012, Honolulu, Hawaii

Graduate teaching and advising

Chair, dissertation committee for following Ph.D. graduates, 2010-15.

Chris Wada, 2010

Geri Mason, 2010

Min Min Thaw, 2011

Majah Ravago, 2012

Emiko Naomasa 2015

Kanae Tokunaga 2015

Graduate Courses Taught, 2010-15

Econ 611: Economic Development Policy (twice)

Econ 638: Environmental Resource Economics (twice)

Econ 650: Foundations of Public Economics (twice)

Graduate Placement Officer, 2014 to present

Awards and Grants:

“Sustainability Science for Food, Forests, and Floods: Integrating Climate Adaptation and Pro-Poor Resource Management” grant to organize a workshop. UHM Office of the Vice Chancellor for Research and Graduate Education \$ 5,700, International Food Policy Research Institute \$3,000, 2011.

“Ecosystem Function: Natural, Anthropogenic, and Invasive Species Contributions to Biogeochemical Evolution of Groundwaters and Coastal Environments of West Hawaii” NSF/EPSCoR \$113,291, January 2010-September 2014 Island of Hawaii and Honolulu, Hawaii, UH (Co-investigator; No salary support)

“Incentives for Carbon Sequestration in Forests: Offsets and Direct Payments,” International Food Policy Research Institute, \$28,455; 2009-2010. (Principal Investigator)

“Sustainable groundwater management for Southern Oahu in the face of climate change,” UHM Office of the Vice Chancellor for Research and Graduate Education, \$21,800; 2009. (Principal Investigator)

“Optimal Groundwater Extraction and Water Recycling,” US Geological Survey via the University of Hawaii Water Resources Research Center; \$12,689; 2009-10. (Principal Investigator)

“Integrated Management of Multiple Aquifers in the Face of Climate Change,” US Geological Survey via the University of Hawaii Water Resources Research Center; \$20,525; 2008-9. (Principal Investigator)

“Sustainability Seed Grant,” UH Sustainability Council; \$10,400; 2007-2008. (Principal Investigator)

“Sustainability Science for Watershed Landscapes,” Southeast Asian Regional Center for Graduate Studies and Research in Agriculture (SEARCA) via University of Hawaii Water Resources Research Center, \$7,500, 2007-2008. (Principal Investigator)

“Efficient Water Management and Block Pricing for Integrated Aquifers: Lessons from Southern Oahu,” US Geological Survey via the University of Hawaii Water Center; \$8,906; 2007-2008. (Principal Investigator)

University of Hawaii Manoa College of Social Sciences Distinguished Research Award, 2005-06

“Integrated water management with multiple aquifers,” US Geological Survey via the University of Hawaii Water Center; \$17,632; 2006-7. (Principal Investigator)

“Optimal Public Control of Exotic Species,” US Fish and Wildlife Service, \$44,111; 2005-7 (Principal Investigator).

“Coastal Groundwater Management with Positive Stock Externalities,” US Geological Survey via the University of Hawaii Water Center; \$151,414; 2005-8. (Principal Investigator).

“Integrated Management of Multiple Aquifers with Subsurface Flows and Inter-District Water Transport,” US Geological Survey via the University of Hawaii Water Center; \$19,713; 2005-6. (Principal investigator)

“Integrating Prevention and Control of Invasive Species: Lessons from Hawaii,” US Department of Agriculture (PREISM program); \$200,000; 2003-6. (Principal investigator)

“Efficient Water Allocation and Pricing with Win-Win Conservation Surcharges: The Central Oahu Corridor,” US Geological Survey via the University of Hawaii Water Center; \$24,045; 2003-2005.

“Mitigating Runoff as Part of an Integrated Strategy for Nearshore Resource Conservation,” National Oceanic and Atmospheric Administration via the University of Hawaii Sea Grant College Program; \$65,125; 2003-5. (Principal investigator)

“A Win-Win Approach to Water Pricing and Watershed Conservation,” US Geological Survey via the University of Hawaii Water Center; \$24,375; 2002-4. (Principal Investigator)

Impacts of Globalization on Food Security and the Environment, UH Globalization Center grant, 2000. (Principal investigator)

Environmental Valuation and the Hawaiian Economy, The Nature Conservancy, \$40,000 1998. (Principal investigator)

Sustainable Resource Management and the Depreciation of Environmental Capital: Applications to Energy Use and Global Warming, National Science Foundation Grant SES 91-22370, 1992-94. \$106,918 (Principal investigator)

Specialization and the Coevolution of Agricultural Markets, University of Maryland Institutional Reform and the Information Sector Grant, 1992-94. (Principal investigator)

Second Sourcing and Organization Efficiency in Japan and the U.S. (Co-PI, with J. Richardson), Pacific-Asia Management Institute Grant, 1991

Environmental Depreciation and National Income Accounting, Office of Research Administration Grant, University of Hawaii, 1990-91 (Principal investigator)

Environmental Mediation: The Case of Global Warming and Seawalls, (Co-PI, with K. Lowry and M. Ridgely), College of Social Sciences, University of Hawaii, 1990-91

Rural Labor Markets and Economic Development (Co-PI, with R. Evenson and L. Martin), Population Council Grant, 1984-86

The Causes and Consequences of Tenure Choice, National Science Foundation Grant, 1974-1976. (Co-PI with Joe Reid).

The Causes and Consequences of Tenure Choice, National Science Foundation Grant to UHM, 1976-1977. (Principal investigator).

First place in 1973 Omicron Delta Epsilon Society competition for best U.S. Ph.D. dissertation in Economics: "Risk and Choice of Techniques for Peasant Agriculture and the Case of Philippine Rice Farmers"

Listed among top 2% of economists at: ideas.repec.org/top/top.person.dnbworks.html#pro186

Memberships:

American Economic Association, American Agricultural Economics Association International, Association of Agricultural Economists Association of Environment and Resource Economists, International Society for the New Institutional Economics, Western Economic International Association, Philippine Economic Society

Refereed Journal Articles

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*

Roumasset, J., Wada, C.A., 2014. Energy, Backstop Endogeneity, and the Optimal Use of Groundwater. *American Journal of Agricultural Economics* 96(5), 1363-1371.

Endress, L., Pongkijvorasin, S., Roumasset, J., Wada, C.A., 2014. Intergenerational Equity with Individual Impatience in a Model of Optimal and Sustainable

Growth. *Resource and Energy Economics* 36(2), 620-635.

Burnett, K., Endress, L., Ravago, M. L., Roumasset, J., Wada, C.A., 2014. Islands of sustainability in time and space. *International Journal of Sustainable Society* 6(1/2), 9-27.

Kaiser, B. and J. Roumasset, 2014. Transitional Forces in a Resource Economy: Phases of Economics and Institutional Development in Hawaii. *Review of Economics and Institutions*.

Roumasset, J., **Wada, C.A.**, 2013. A dynamic approach to PES pricing and finance of interlinked ecosystem services: Watershed conservation and groundwater management. *Ecological Economics* 87, 24-33.

Roumasset, J. and C. Wada. 2012. "[Ordering the extraction of renewable resources: The case of multiple aquifers](#)," *Resource and Energy Economics*, 34(1): 112-128.

Burnett, K., Roumasset, J., Wada, C.A. 2012. Multi-instrument pollution abatement from multiple sources: The case of nitrogen pollution in groundwater. *Journal of Sustainable Watershed Science and Management* , 1 (3): 76–83.

Burnett, K., S Pongkijvorasin, and J. Roumasset, 2012. "[Species Invasion as Catastrophe: The Case of the Brown Tree Snake](#)," *Environmental & Resource Economics*, European Association of Environmental and Resource Economists, vol. 51(2), pages 241-254, February.

Roumasset, J. "Practice Civility in Faculty Meetings," in "[One Hundred Great Ideas for Higher Education](#)." 2012. *Academic Questions*. 25: 514.

Roumasset, J., and C.Wada. 2011. "[Ordering Renewable Resources: Groundwater, Recycling, and Desalination](#)," *The B.E. Journal of Economic Analysis & Policy*, 11(28): 1-27.

Duarte, T. K., S. Pongkivorasin, J. Roumasset, D. Amato, and K. Burnett (2010), "Optimal Management of a Hawaiian Coastal Aquifer with Near-Shore Marine Ecological Interactions," *Water Resources Research, Water Resour. Res.*, 46, W11545, doi:10.1029/2010WR009094.

Roumasset, James A.; Wada, Christopher A. 2010. "Optimal and Sustainable Groundwater Extraction." *Sustainability* 2, no. 8: 2676-268, <http://www.mdpi.com/2071-1050/2/8/2676/>.

"Wither The Economics of Agricultural Development?," 2010. *Asian Journal of Agriculture and Development*, 7(1) Los Banos, Philippines: Southeast Asian Regional Center for Graduate Study and Research in Agriculture.

Pongkijvorasin, S., J. Roumasset, K. Burnett, and T.K. Duarte (2010), Renewable resource management with stock externalities: coastal aquifers and submarine groundwater discharge, *Resource and Energy Economics*, 32(3): 277-291.

"The Political Economy of Corruption: A Philippine Illustration," *National Counter Corruption Commission (NCCC) Journal*, Bangkok, Thailand. 2009. 2(1). Bangkok, Thailand

“Pareto-Improving Water Management over Space and Time: The Honolulu Case,” with Basharat A. Pitafi. *American Journal of Agricultural Economics*, 91(1):138-153, 2009.

D’Evelyn, S. N. Tarui, K. Burnett, and J. Roumasset. 2008. “Learning-by-catching: Uncertain invasive-species populations and the value of information,” *Journal of Environmental Management*, 89(4): 284-292.

“A New Institutional Approach to Pro-poor Agricultural Development: Lessons from Asia,” *Journal of Asian Economics*, 19(5-6):378-388. 2008.

“Beyond the Lamppost: Optimal Prevention and Control of the Brown Treesnake in Hawaii,” with Kimberly Burnett, Sean D’Evelyn, Brooks Kaiser, and Porntawee Nantamanasikarn. *Ecological Economics*, 67(1):66-74. 2007.

“Invasive Species Control over Space and Time: *Miconia calvescens* on Oahu, Hawaii,” with Brooks Kaiser and Kimberly Burnett. *Journal of Agricultural and Applied Economics*, 39: 125-132.

“Optimal Conjunctive Use of Surface and Groundwater with Recharge and Return Flows: Dynamic and Spatial Patterns” (w/ Sittidaj Pongkijvorasin), *Review of Agricultural Economics*, 29(3):531-539. 2007.

“Control of Invasive Species: Lessons from *Miconia* in Hawaii,” with Brooks Kaiser and Kimberly Burnett. *Journal of Forest Economics*, 13(2-3):151-167

“Uncertain Populations and the Value of Information,” with Sean D’Evelyn, Nori Tarui, and Kimberly Burnett, *Journal of Environmental Management*, 89(4):271-350 (2008)

“Prevention, Eradication, and Containment of Invasive Species: Illustrations from Hawaii,” with Kimberly Burnett, Brooks Kaiser, and Basharat Pitafi. *Agricultural and Resource Economics Review*. Vol. 35(1), April 2006: 63-77.

“Discontinuous Extraction of a Non-Renewable Resource,” (w/ E. Im and U. Chakravorty), *Economic Letters*, Volume 90 Issue 1, January 2006, 6-11.

“Specialization and Non-renewable Resources: Ricardo meets Ricardo” (w/ U. Chakravorty and D. Krulce), *Journal of Economic Dynamics and Control*, 29(9) 1517-1545. (2005).

“Sustainable Growth with Environmental Spillovers” (with L. Endress and T. Zhou), *Journal of Economic Behavior and Organization*. Volume 58, Issue 4, December 2005, 527-547.

“Rural Institutions, Agricultural Development, and Pro-Poor Economic Growth,” *Asian Journal of Agriculture and Development*, 1, 1, 61-82 (June, 2004); available at: http://www.searca.org/ajad/archives/v-01/01/ajad_v1_n1_roumasset.pdf

“Risk aversion as effort incentive: A correction and prima-facie test of the canonical theory of share tenancy,” (with Mark Deweaver), *Economics Bulletin*, 15(4):1 - 16. (2002).

“Apples, Bees and Contracts: A Coase-Cheung Theorem for Positive Spillover Effects,” (w/ J. Johansson), *World Economic Forum*, n6, 2002, 1-11.

“Valuing Indirect Ecosystem Services: the Case of Tropical Watersheds,” (w/ Brooks Kaiser), *Environmental Economics and Development*, v7, n4 (2002), 701-14.

“Inter-district Water Allocation with Conjunctive Use,” (w/ Rodney Smith), *Water Resources Update*, Jan, 2001, [118:68-73](#).

“Rapporteur’s Report on Privatizing Water and Wastewater Systems,” *Water Resources Update*, No. 117, October 2000

“Constrained conjunctive use for endogenously separable water markets: managing the Waihole-Waikane aqueduct,” (w/ Rodney Smith), *Agricultural Economics* 24(1):61-71 (2000).

“Endogenous Substitution Among Energy Resources and Global Warming,” (with U. Chakravorty and K. Tse), *Journal of Political Economy*, 105(6):1201-1234 (1996).

“Optimal Management of a Renewable and Replaceable Resource: The Case of Coastal Groundwater,” (with D. Krulce and T. Wilson), *American Journal of Agricultural Economics*, November 1997.

“The Yin and Yang of Sustainable Development: A Case for Win-Win Environmentalism,” (with Lee Endress) *Journal of the Asia Pacific Economy*, Vol. 1, No. 2, 185-194, (1996).

“Food Insecurity and Stochastic Aspects of Poverty,” (with Jock R. Anderson) in *Asian Journal of Agricultural Economics*, 2(1): 53-66, August 1996.

“The Nature of the Agricultural Firm,” *Journal of Economic Behavior and Organization*, Vol. 26, 171-177 (1995).

“Sole Sourcing, Competitive Sourcing, Parallel Sourcing: Mechanisms for Supplier Performance” (with J. Richardson), *Managerial and Decision Economics*, Vol. 16, 71-84 (1995).

“Intellectual Property Rights in the Asia Pacific Region: Problems, Patterns, and Policy,” (with D. Konan, S. La Croix and J. Heinrich), *Asian-Pacific Economic Literature*, Vol. 9, No. 2, (November 1995).

“Integrating Economic Analysis with Engineering Design: The Case of Water Management,” (with U. Chakravorty), *American Society of Civil Engineering Journal of Water Resources Planning and Management*, Vol. 120, November 1994.

“Golden Rules for Sustainable Resource Management,” (with Lee Endress) *Economic Record*, Vol. 70, n 210 September 1994.

“Some advanced topics in resource economics”, with Dingding Wang, *Management World*, 1992.

“Investing in Agriculturally-Led Growth: The Philippine Case,” *South East Asian Journal of*

Agricultural Economics, June 1992.

“How to Facilitate or Stifle Economic Development: The Role of Agriculture in Indonesia and the Philippines,” (with W. James), *Southeast Asian Journal of Agricultural Economics*, Vol. 1, No. 2, (December 1992).

“Constitutional Management of Free Riders and Common Property Resources,” *Osaka Economic Review*, (March 1991), reprinted as “Constitutional Management of Free Riders and Common Property Resources,” in Ali El-Agraa, *Public and International Economics*, St. Martin’s Press, N.Y., 1993.

“Natural Resource Management for Sustainable Development in the Philippines,” *Journal of Agricultural Economics and Development*, January 1991.

“Efficient Spatial Allocation of Irrigation Water,” (with U. Chakravorty), *American Journal of Agricultural Economics*, February 1991.

“Nature and Fertility Consequences of the Rural Transformation in Thailand (with S. Hutaserani), *Economic Development and Cultural Change*, October 1991.

“Competitive Oil Prices and Scarcity Rents When the Extraction Cost Function is Convex,” (with U. Chakravorty), *Resources and Energy*, December 1990.

“Exposure Trading: An Approach to More Efficient Air Pollution Control,” (with K. Smith), *Journal of Economics and Environmental Management*, 18, 276-271, (1990).

“Economic Policy for Sustainable Development,” *Development*, 1990: 3/4.

“The Relative Welfare Cost of Industrial and Agricultural Policy Distortions: A Philippine Illustration,” (with R. Clarete), *Oxford Economics Papers*, 1990.

“The Evolution of Private Property in Nineteenth-Century Hawaii,” (with S. La Croix), *Journal of*

Economic History, Vol. 50, No. 4, (December 1990).

“Decentralization and Local Public Goods: Getting the Incentives Right,” *Philippine Review of*

Business and Economics, Vol. 26, No. 1 (June 1989).

“Second-Best Agricultural Policy: Getting the Price of Thai Rice Right,” (with S. Setboonsarng), *Journal of Development Economics*, 28, pp. 323-340 (1988).

“Evaluating biotechnology: Fertiliser substitution and US rice policy,” (with Anderson, J.R., Dvorak,

K.A., and Setboonsarng, S., *Agricultural Administration and Extension* 30(1), 25-41. 1988.

“Agency Costs and the Agricultural Firm,” (with M. Uy), *Land Economics*, August 1987.

“A Shoven-Whalley Model of a Small-Open Economy: An Illustration with Philippine Tariffs,” (with R. Clarete), *Journal of Public Economics*, (1987).

“Public Choice of Economic Policy: The Growth of Agricultural Protection,” (with A. Balisacan), *Weltwirtschaftliches Archives*, (1987).

“Markets, Institutions and Family Size in Rural Philippine Households,” (with R. Evenson), *Journal of Philippine Development*, 23, pp. 141-162 (1986).

“Planning Policy with General Equilibrium Models: The effects of tariffs in the Philippines” (with M.N. Mendoza and R. Clarete), *International Journal of Development Planning*, Vol. 1, No. 1 (1986), reprinted in S.B. Dahiya, *Theoretical Foundations of Development Planning*, 1991.

“CGE Models and Development Policy Analysis: Problems, Pitfalls, and Challenges,” (with R. Clarete), *American Journal of Agricultural Economics*, December 1986.

“Re: Farm Subsidies--Who Gets Hurt? We do,” *Choices*, Fourth Quarter, 1986.

“Technology and Agricultural Policy: An Assessment of Azolla for Philippine Rice Production,” (with A. Balisacan and M. Rosegrant), *American Journal of Agricultural Economics*, Vol. 67, No. 4, pp. 726-732, November 1985.

“The Effect of Fertilizers on Risk: A Heteroscedastic Production Function with Measurable Stochastic Inputs” (with M. Rosegrant), *Australian Journal of Agricultural Economics*, Vol. 29, No. 2, pp. 107-121, August 1985.

“Migration and the Evolution of Tenure Contracts in Newly Settled Regions,” (with W. James), *Journal of Development Economics*, January 1984.

“Oil Prices with OPEC: A Walk on the Supply Side,” (with D. Isaak and F. Fesharaki), *Energy Economics*, July 1983.

“Explaining the Mechanization Decision: A Policy Oriented Approach” (with G. Thapa), *Journal of Development Economics*, (1983).

“Calculating General Equilibrium Effects of Taxes and Tariffs in the Philippines,” (with M.N. Mendoza), *Philippine Economic Journal*, (1982).

“Population, technological change, and the evolution of labor markets,” (with J. Smith), *Population and Development Review*, 7(3):401–19, September 1981.

“Piece Rates, Time Rates and Teams: Explaining Patterns in the Employment Relation,” (with M. Uy), *Journal of Economic Behavior and Organization*, December 1980.

“Sharecropping, Production Externalities and the Theory of Contracts,” *American Journal of Agricultural Economics*, Vol. 61, No. 4 (Nov., 1979), pp. 640-647.

“Explaining Variations in Share Contracts: Land Quality, Population Pressure and Technological Change,” (with W. James), *Australian Journal of Agricultural Economics*, August 1979, 116-127.

“The New Institutional Economics and Agricultural Organization,” *Philippine Economic Journal*, v. 17, n. 3 (1978).

“The Case Against Crop Insurance for Developing Countries,” *Philippine Review of Business and Economics*, March 1978, (also reprinted as an Agricultural Development Council reprint).

“Addicts, Fences and the Market for Stolen Goods,” (with J. Hadreas), *Public Finance Quarterly*, July 1977.

Farm Mana “The Economic Analysis of Experimental Results in Nitrogen Response of Rice” (with R. Barker and V. Cordova), *gement Notes*, July 1976.

Reply to comment on “Estimating the Risk of Alternate Techniques: Nitrogenous Fertilization of Rice”

Rice in the Philippines,” *Review of Marketing and Agricultural Economics*, September 1975.
“Estimating the Risk of Alternate Techniques: Nitrogenous Fertilization of Rice in the Philippines,” *Review of Marketing and Agricultural Economics*, December 1974.

Books and Book Chapters

Burnett, K., Roumasset, J., Wada, C. The Good, Bad, and Ugly of Watershed Management. Ch 8 in: Burnett, K., Howitt, R., Roumasset, J., Wada, C.A. (Eds.) 2015. *Handbook of Water Economics and Institutions*, Routledge.

Burnett, K., Roumasset, J., Wada, C. 2014. Optimal joint management of interdependent resources: the case of groundwater and kiawe (*Prosopis pallida*). In: Balisacan, A., Chakravorty, U., Ravago, M. (Eds.), *Resources, Development and Public Policy: Concepts, Practices and Challenges*.

Burnett, K., Roumasset, J., Wada, C. 2014. Incentivizing interdependent resource management: watersheds, groundwater, and coastal ecology. In A. Dinar (ed.), *The Handbook of Water Economics*. Edward Elgar Publishing.

Jandoc, K., R. Howitt, J. Roumasset, and C. Wada. 2015. Institutions for Managing Ground and Surface Water and the Theory of the Second-Best. Chapter 11 in Burnett, K., Howitt, R., Roumasset, J., Wada, C.A. (Eds.), *Handbook of Water Economics and Institutions*, Routledge.

Jandoc, K. R. Juarez, and J. Roumasset. 2015. Towards an Economics of Irrigation Networks. Chapter 12 in Ch 5 in: Burnett, K., Howitt, R., Roumasset, J., Wada, C.A. (Eds.), *Handbook of Water Economics and Institutions*, Routledge.

Ponkijvorasin, S. and Roumasset, J. 2015. Optimal Conjunctive Water Use over Space and Time Ch 5 in: Burnett, K., Howitt, R., Roumasset, J., Wada, C.A. (Eds.), *Handbook of Water Economics and Institutions*, Routledge.

Roumasset, J. 2014. Reflections on the Foundations of Development Policy Analysis. Chapter 2 in Balisacan, A., Chakravorty, U., Ravago, M. (Eds.), *Resources, Development and Public Policy: Concepts, Practices and Challenges*.

Roumasset, J., Wada, C. 2015. Ordering Extraction from Multiple Aquifers. Chapter 3 in: Burnett, K., Howitt, R., Roumasset, J., Wada, C.A. (Eds.), *Handbook of Water Economics and Institutions*, Routledge.

Roumasset, J., Wada, C. 2015. Integrating Demand-Management with Development of Supply-Side Substitutes. Chapter 4 in: Burnett, K., Howitt, R., Roumasset, J., Wada, C.A. (Eds.), *Handbook of Water Economics and Institutions*, Routledge.

Roumasset, J., Wada, C. 2015. Groundwater economics. In: Balisacan, A., Chakravorty, U., Ravago, M. (Eds.), *Resources, Development and Public Policy: Concepts, Practices and Challenges*.

Roumasset, J. and C. Wada. 2014. Groundwater economics. In: Whitehead, J., Haab, T. (Eds.), *Environmental and Natural Resource Economics: An Encyclopedia*, ABC-CLIO/Greenwood.

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

Sustainability Science for Watershed Landscapes. Singapore: Institute of Southeast Asian Studies; Los Banos, Philippines: Southeast Asian Regional Center for Graduate Study and Research in Agriculture, with Kimberly Burnett, and Arsenio Balisacan (eds.), 2010.

“Economic Policy for Sustainable Growth and Development vs. Greedy Growth and Preservationism,” with Majah-Leah Ravago and Arsenio Balisacan, in J. Roumasset, K. Burnett, and A. Balisacan (eds.), *Sustainability Science for Watershed Landscapes*. Singapore: Institute of Southeast Asian Studies; Los Banos, Philippines: Southeast Asian Regional Center for Graduate Study and Research in Agriculture, (2010).

“Integrated Watershed Management: The Role of Optimization in Sustainability Science,” with Sittidaj Pongkijvorasin, in J. Roumasset, K. Burnett, and A. Balisacan (eds.), *Sustainability Science for Watershed Landscapes*. Singapore: Institute of Southeast Asian Studies; Los Banos, Philippines: Southeast Asian Regional Center for Graduate Study and Research in Agriculture, (2010).

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

Population and Agricultural Growth. 2008. In S. Dulauf and L. Blume, *The New Palgrave Dictionary of Economics*, 2nd edition, MacMillan Publishing Co.; viewable via www.dictionaryofeconomics.com.

“The Economics of Agricultural Development: What Have We learned?” in A.M. Balisacan and N. Fuwa (eds.), *Reasserting the Rural Development Agenda: Lessons Learned and Emerging Challenges in Asia*. Singapore: Institute of Southeast Asian Studies, and Southeast Asian Regional Center for Graduate Study and Research in Agriculture, 2007. Also appeared in *Oléagineux, Corps Gras, Lipides*. Volume 13, Numéro 4, 247-55, July -Aug 2006, PMA et organisations internationales. http://www.jle.com/fr/revues/agro_biotech/ocle-docs/00/04/26/4D/article.md

“The Economic Value of Watershed Conservation,” with B. Kaiser, B. Pitafi, and K. Burnett, in A. Fares and A. El-Kadi (eds.), *Land Management Impacts on Coastal Watershed Hydrology* (WIT Press, Southampton, UK, 2007).

Roumasset, J., K. Burnett, and H. Wang. 2007. Environmental Resources and Economic Growth, Chapter 8 in: *China's Economic Transition: Origins, Mechanism, and Consequences*. Cambridge University Press, in press.

Labor: Decisions, Contracts, and Organization (w/ Sang Hyop Lee). 2007. In Evenson and Pingali, *Handbook of Agricultural Economics III* (Elsevier).

“Agricultural Parastatals and Pro-Poor Economic Growth” forthcoming in R. Cummings Jr. and A. Gulati, *From Parastatals to Private Trade: Why, When, and How*.

“A New Institutional Approach to Pro-Poor Agricultural Development: Lessons from Asia,” forthcoming in La Croix, *Miracles and Mirages in East-Asian Economic Development*.

“Endogenous Substitution Among Energy Resources and Global Warming,” (with U. Chakravorty and K. Tse), in M. Hoel (ed.), *Recent Developments in Environmental Economics* (Edward Elgar), 2004.

“Efficient Spatial Allocation of Irrigation Water,” w/ U. Chakravorty, in W. Easter, *Economics of Water Resources*, Ashgate, 2004.

“Optimal Management of a Renewable and Replaceable Resource: The Case of Coastal Groundwater,” (with D. Krulce and T. Wilson), in W. Easter and M Renwick, *Economics of Water Resources*, Ashgate, 2004.

“Constrained conjunctive use for endogenously separable water markets: managing the Waihole-Waikane aqueduct,” (w/ Rodney Smith), in W. Easter and M Renwick, *Economics of Water Resources*, Ashgate, 2004.

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