

Curriculum Vitae
MAHADEV G. BHAT

Professor
Co-Director, Agroecology Program
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EXPERIENCE:

- August 2010 - Present ***Professor (Resource Economics)***
Departments of Earth & Environment *and* Economics, Florida International University, Miami.
- August 2010 - August 2014 ***Associate Chairperson***
Department of Earth & Environment, Florida International University, Miami.
- August 1999 - July 2010 ***Associate Professor (Resource Economics)***
Departments of Earth & Environment *and* Economics, Florida International University, Miami.
- August 1999 - July 2008 ***Graduate Program Director***
Department of Environmental Studies, Florida International University, Miami.
- August 1994 - July 1999 ***Assistant Professor (Resource Economics)***
Departments of Environmental Studies and Economics, Florida International University, Miami.
- February 1992 - August 1994 ***Postdoctoral Research Associate***
Agricultural Policy Analysis Center, The University of Tennessee, Knoxville.
- August 1988 - December 1991 ***Graduate Research Assistant***
Department of Agricultural Economics & Rural Sociology, The University of Tennessee, Knoxville.
- December 1983 - August 1988 ***Finance Officer***
Rural Development Department, Dena Bank, Bangalore (India).

AREAS OF STUDY:

Natural resource economics and policy, resource modeling, economics of water resources, coastal resources management, and sustainable agriculture.

EDUCATION:

- Ph.D. Agricultural Economics (natural resource economics concentration), The University of Tennessee, Knoxville, 1991.
- M.Sc. Agricultural Economics, University of Agricultural Sciences, Dharwad (India), 1983.
- B.Sc. Agricultural Marketing and Cooperation, University of Agricultural Sciences, Dharwad (India), 1981.

**AWARDS,
HONORS &
SIGNIFICANT
ACHIEVEMENT**

- Florida International Univ **Presidential Excellence Award**, 2016.
- FIU CASE **Award for Engagement**, 2016.
- Florida Int'l Univ **Faculty Award for Excellence in Engagement**, 2016.
- FIU CASE MS in Env Policy & Manage. Program **Best Course Award**, 2016
- FIU CASE MS in Env Policy & Manage. Program **Faculty of the Year**, 2015
- Florida International University **Top Scholar Award**, 2015.
- Florida International Univ **Faculty Award for Excellence in Teaching**, 2014.
- Florida International Univ **Presidential Excellence Award (Finalist)**, 2013.
- Florida International Univ **Presidential Excellence Award (Finalist)**, 2011.
- Florida International Univ **Faculty Award for Excellence in Service**, 2010.
- Certificate of Appreciation by Mayor, Miami-Dade County, 2006, for serving on the South Dade Watershed Plan Technical Review Committee.
- Co-founder of the FIU Organic Garden, which received the **USDA People's Garden** designation, April 2010.
- Founding Co-Director, Agroecology Program at Florida International University, 2005, under the grant from the US Department of Agriculture of over \$5 million (www.agroecology.fiu.edu).
- Founding Co-Director, Human Dimensions of the South Florida Environment Group, Florida International University, 1999.
- **Berg Fellow** of Soil and Water Conservation Society, 1992. Nominated as one of fifteen scientists from US and Canada for participating at the Society's first international Conservation Policy Forum, August 1992.
- Phi Kappa Phi Honor Society, 1990.
- Gama Sigma Delta Honor Society, 1989.
- Karnataka State Government's State Award for the first rank in M.Sc., 1984.
- Jawaharlal Nehru Memorial Prize for an outstanding university student, 1981.
- BS and MS first rank gold medals, University of Agricultural Sciences, Bangalore, India, 1981 and 1983.

RESEARCH ACTIVITIES

GRANT PROJECTS:

Total grants: ≈ \$15 million

Agency	Research Project	Participation	Amount
USDA-HSI	Innovative Curriculum for Agriculture Training and Career for Hispanics, August 2016 – July 2020.	PI	\$2,000,000
USDA-HSI & TAMU	The START NOW project for training Hispanic students in international agriculture, August 2016 – July 2020.	Co-PI	\$330,000
USDA-OAO	Veterans and Small Farmers Outreach Program, October 2015-September 2016	PI	\$174,000
USDA-HSI	Broadening Agriculture Science Education across Florida, Texas and New Mexico, August 2015 – July 2019.	Co-PI	\$1,000,000
USDA-HSI	Florida-Caribbean Consortium for Agriculture Education and Hispanic Workforce Development, September 2011 – August 2016.	PI	\$3,350,000

USDA-OAO	Training and Government Program Access for Veteran and Socially Disadvantaged Farmers and Nursery Growers in South Florida, October 2014-September 2015	PI	\$168,000
USDA-MSP	Multicultural Undergraduate Scholars in Agroecology and Natural Resource Sciences at Florida International University. June 2016 – May 2020.	Co-PI	\$200,000
USDA-NNF	Doctoral Education in Interdisciplinary Agriculture and Natural Resources Sciences, July 2015 to June 2020	Co-PI	\$238,500
NSF	WSC-Category 2 Collaborative: Robust decision-making for south Florida water resources by ecosystem service valuation, hydro-economic optimization, and conflict resolution modeling, August 2012-July 2017 (Total grant: \$5 million, PI: Mike Sukop)	Co-PI	\$187,000
USDA-MSP	Interdisciplinary Training for Multicultural Undergraduate Scholars in Agroecology and Natural Resource Sciences at Florida International University. June 2014 – May 2019.	Co-PI	\$200,000
USDA-NNF	Infusing Food Security, Food Safety, and Energy into the Environmental Studies Graduate Program at Florida International University. November 2012 – July 2016.	Co-PI	\$250,000
JP-Morgan Chase Foundation	Education Effect in Liberty City – Aquaponic and Garden Project, August 2011—October 2015 (part of a multi-million dollar project, awarded to FIU Office of Engagement)	PI	\$350,000
UM-NOAA	Bioeconomic modeling of fisheries in Florida Pulley Ridge region, August 2011 – July 2017 (sub-contract from University of Miami).	PI	\$157,387
USDA-MSP	Multicultural Scholars Program for Agroecology and Sustainable Sciences at FIU. January 2011 – July 2015.	Co-PI	\$180,000
USDA-NNF	National Needs Fellows in Sustainable Agriculture and Natural Resources Sciences at Florida International University: An Interdisciplinary and Integrative Training Approach, January 2011 – July 2013.	Co-PI	\$240,000
USDA-HSI	Biofuel Science Education for Under-Represented Students at Florida International University, August 2010 – July 2015.	Co-PI	\$290,000
NSF	Linking Ecosystem Functioning with Ecosystem Services in a Neotropical Mangrove Estuary subject to Sea Level Rise and Changes in Freshwater Discharge, August 2010 – July 2012.	Co-PI	\$124,225

USDA-ISE	Internationalization of Environmental Studies Curriculum through Teaching and Research in Bio-fuel Production and Technology, August 2008 – August 2011.	PI	\$99,911
USDA-HSI	Curriculum Enrichment, Instrumentation and Experiential Learning in Agroecology, August 2008 – August 2012.	PI	\$290,000
USDA-MSP	Training Multicultural Undergraduate Scholars in Agriculture and Environmental Sciences at Florida International University, January 2009 – December 2014.	Co-PI	\$120,000
University of Miami	Coastal Resources Development and Management in Antigua and Barbuda: An Economic Modeling, October 2006 – December 2008.	PI	\$124,000
USDA-MSP	Multicultural Undergraduate Scholars in Agroecology and Urban Landscape at Florida International University: An Interdisciplinary Approach, August 2006 – July 2011.	Co-PI	\$120,000
USDA-ISE	Limits to Growth in Agriculture and Emerging Sustainable Farming Systems in Developing Countries, May 2006 – April 2008.	PI	\$100,000
Ford Foundation*	Coastal Resource Conservation Strategies and Enterprise Development for Sustainable Livelihood in India, January 2006-December 2007.	Co-PI	\$46,000
USDA-HSI	Curricular Development and Capacity Building in Agroecology Sciences, August 2005 – August 2008.	PI	\$230,000
USAID	Integrated Water Resources Management (IWRM) Assistance to USAID Missions Worldwide, 2004-2009. (Part of a major grant of \$3,750,000)	Co-Investigator	\$200,000
National Parks Service	Public Participation in Ecosystem Restoration: Development of an Agency Guide	Co-PI	\$79,000
FIU Foundation	Pricing Water Right in South Florida, July 2002- December 2002	PI	\$12,000
World Bank*	An Economic Analysis of Sustainability of Marine Fish Production in Karnataka, India, August 1999 - Summer 2001 (Indian Rs 700,000)	Co-PI	20,000
India Council of Agri Research*	Alternative Fishery Regulations and their Socio-economic Impacts in Karnataka, India, August 1997- July 2000 (Indian Rs. 550,000)	Co-PI	15,715
NSF	Planning Visit to India for a Research on Multi-tier Conflict Resolution in the Case of Biodiversity Patenting- Summer 1997	PI	\$2,130
FIU Foundation	Estimating Economic Benefits of the Florida Coral Reef Protection Plan, May 1996 - December 1996.	PI	\$13,589

FIU Minigrant	An Optimal Plant-Microbe Interaction Model for Bioremediation of PCB-Contaminated Soils, 1994.	PI	\$325
AAEA Foundation and IAAE	Travel Grant Award for Presenting a Paper at the International Conference of Agricultural Economist, Harare, Zimbabwe, August 1994.		\$1,500
USDA/SCS	Energy Production from Agriculture - SCS/RCA Analysis, May 92 - May 96 (with Burton English and others, Univ of Tennessee).	Co-PI	\$260,000
UT	The University of Tennessee Graduate School Travel Grant for delivering a scholarly presentation in professional meeting, Fall 1991.		\$350

*Funded through College of Fisheries, Mangalore, India.

PUBLICATIONS:

*Publications with students.

Refereed Article:

Estevez, C. L. *, **M. G. Bhat** and D. B. Bray. "Commodity Chains, Institutions and Domestic Policies of Organic and Fair Trade Coffee in Bolivia." *Agroecology and Sustainable Food Systems*. 2016 (under revision).

Corrales, J.,* G. M. Najab, M. G. Bhat, and F. Miralles-Wilhelm. "Water Quality Trading Opportunities in Two Sub-watersheds in the Northern Lake Okeechobee Watershed." *Journal of Environmental Management*, 2016 (under review)

Atisa, G., * **M. G. Bhat**, and J. Garcia-Zamor. "Measuring Compliance and Implementation of International Environmental Treaties: The Case Study of the Convention on Biological Diversity." *International Environmental Agreements: Politics, Law and Economics*, 2016 (under review).

Dewsbury, B. M.,* **M. G. Bhat** and J. W. Fourqurean. "The Total Ecosystem Valuation (TEV) of a seagrass ecosystem in a subtropical estuary." *International Journal of Biodiversity and Ecosystem Services*, 2015 (under review).

Jungman, A. *, **M. G. Bhat**, K. Jayachandran and B. Gowda. "An Assessment of Biodiesel Feedstock Conversion Efficiency: A Case Study of Decentralized Biofuel Production Program in Rural India." *International Journal of Renewable Energy Technology*, 8 (1), 2017, pp.47-63.

Jerath M.,* **M. G. Bhat**, V. Rivera-Monroy, E. Castañeda-Moya, M. Simard, R. Twilley. "The role of economic, policy, and ecological factors in estimating the value of carbon stocks in Everglades mangrove forests, South Florida, USA." *Environmental Sciences and Policy*, 2016.
DOI: 10.1016/j.envsci.2016.09.005.

Seleman, A* and **M. G. Bhat**. "Multi-Criteria Assessment of Sanitation Technologies in Rural Tanzania: Implications for Program Implementation, Health and Socio-Economic Improvements." *Technology in Society, Technology in Society*, 46 (2016), p. 70-79.

Dewsbury, B. M., * **M. G. Bhat** and J. W. Fourqurean. "A review of seagrass economic valuations: Gaps and progress in valuation approaches." *Ecosystem Services*, 8 (2016), 68-77.

Miles, M.,* K. Jayachandran, **M. G. Bhat** and A. Deoraj. "Assessing Plant Growth, Water Quality and Economic Effects from Application of a Plant-based Aquafeed in a Recirculating Aquaponic System." *Aquaculture International*, 2015, 10.1007/s10499-015-9934-3.

Corrales, J.,* G. M. Najab, **M. G. Bhat**, and F. Miralles-Wilhelm. "Modeling a Phosphorus Credit Trading Program in an Agricultural Watershed." *Journal of Environmental Management*. 143 (2014): 162-172.

Atisa, G. *, **M. G. Bhat**, and M. McClain. "Economic Assessment of Best Management Practices in the Mara River Basin: Toward Implementing Payment for Watershed Services." *Water Resources and Management*, 28 (6): 1751-1766, 2014. DOI: 10.1007/s11269-014-0585-3.

Liu, H., Yi-Bo Luo, J. Heinen, **M. G. Bhat**, and Z. Liu. "Eat your orchid and have it too: A potentially new conservation formula for Chinese epiphytic medicinal orchids." *Biodiversity and Conservation*, March 2014. DOI 10.1007/s10531-014-0661-2.

Dessu, S.,* A. Melesse and **M. G. Bhat**. "Assessment of Water Resources Availability and Demand in the Mara River Basin" *CATENA* (115): 104–114, 2014.

Corrales, J.,* G. M. Naja, R. Rivero, F. Miralles and **M. G. Bhat**. "Environmental Pollutant Exchange for solving Watershed Water Quality Problems." *Irrigation and Drainage*, 62 (Suppl. 2): 72-92, 2013. DOI: 10.1002/ird.1805.

Bhat, M. G., R. Bhatta, and M. Shumais, "User-based Financing of Environmental Conservation of the Maldivian Atolls: An Application of the Travel Cost Model. *Environmental Economics and Policy Studies*, 2013, DOI 10.1007/s10018-013-0070-x.

Sheahan, C.,* D. Bray, **M. G. Bhat** and K. Jayachandran, "Ecological, Economic and Organizational Dimensions of Organic Farming." *Journal of Sustainable Agriculture*, 36:83–105, 2012.

Reid-Grant, K. * and **M. Bhat**, "Financing Marine Protected Areas in Jamaica: An Exploratory Study." *Marine Policy*, 33: 128–136, 2009.

Stone, K. *, **M. Bhat**, R. Bhatta, A. Mathews, "Factors Influencing Community Participation in Mangroves Restoration: A Contingent Valuation Study." *Ocean & Coastal Management*, 51: 476–484, 2008.

Baral, N. *, R. Gautam, N. Timilsina*, **M. G. Bhat**, "A Contingent Valuation of Critically Endangered White-rumped Vulture *Gyps bengalensis* in South Asia." *International Journal of Biodiversity Science and Management*, 3: 1-12, 2007.

Bhat, M. G. and R. G. Huffaker, "Management of a Transboundary Wildlife Population: A Self-Enforcing Cooperative Agreement with Renegotiation and Variable Transfer Payments." *Journal of Environmental Economics and Management*, 53: 54-67, 2007.

Bhat, M. G. and R. Bhatta, "Regional Economic Impacts of Limited Entry Fishery Management: An Application of Dynamic Input-Output Model" *Environment and Development Economics*, 11: 709-728, 2006.

Bhat, M. G. and R. Bhatta. "Mechanization and Technical Interactions in Multi-species Indian Fisheries: Implications for Economic and Biological Sustainability." *Marine Policy*, 30: 237-248, 2006.

Bhat, M. G. and R. Bhatta. "Considering Aquacultural Externality in Coastal Land Allocation Decisions in India," *Environmental and Resource Economics*, 29(1): 1-20, 2004.

- Chandrakanth, M. G., **M. G. Bhat**, and M. S. Accavva*. "Socio-economic Changes and Sacred Groves in South India: Protecting a Community-based Resource Management Institution" *Natural Resource Forum*, 28(2): 102-111, 2004.
- Chandrakanth, M. G., B. Alemu*, and **M. G. Bhat**. "Combating Negative Externalities of Drought: A Study of Groundwater Recharge through Watershed." *Economics and Political Weekly*, March 13, 2004: 1164-1170.
- Bhat, M. G.** and A. Stamatiades*. "Institutions, Incentives and Resource Use Conflicts: The Case of Biscayne Bay, Florida." *Population and Environment*, Vol. 26(4), 2003.
- Bhat, M. G.** "Application of Non-Market Valuation to the Florida Keys Marine Reserve Management." *Journal of Environmental Management*, 67(4): 315-325, 2003.
- Alemu, B.*, M. G. Chandrakanth, and **M. G. Bhat**. "Impact of Watershed Development Programme in Augmenting Groundwater Resource in Drought Situation." In *Watershed Management: Issues and Policies for 21st Century*. K. Palanisami, D. Suresh Kumar and B. Chandrasekaran (Editors). 1st ed. New Delhi: Associated Publishing Company. 2002. pp. 341.
- Bhat, M. G.** "On Biodiversity Access, Intellectual Property Rights, and Conservation." *Ecological Economics*, 29(3): 391-403, 1999.
- Bhat, M. G.**, K. R. Fister and S. M. Lenhart. "An Optimal Control Model for the Surface Runoff Contamination of a Large River Basin." *Natural Resource Modeling*, Vol. 12(2): 175-195, 1998.
- Bhat, M. G.**, R. R. Alexander, and B. C. English. "Toward Controlling Nonpoint Source Pollution of Groundwater: A Hierarchical Policy Formulation Game." *Natural Resource Modeling*, Vol. 11(4): 1-25, 1998.
- Bhatta, R. and **M. G. Bhat**. "Impacts of Aquaculture on the Management of Estuaries in India." *Environmental Conservation*, 25(2): 109-121, 1998.
- Bhat, M. G.**, R. G. Huffaker, and S. M. Lenhart. "Controlling Transboundary Wildlife Damage: Modeling under Alternative Management Scenarios." *Ecological Modeling*, 92:215-224, 1996.
- Bhat, M. G.** "Trade-Related Intellectual Property Rights to Biological Resources: Socioeconomic Implications for Developing Countries." *Ecological Economics*, 19: 205-217, 1996.
- Bhat, M. G.**, D. E. Ray and B. C. English. "The Flexible Planting Program: Divergent National and Regional Economic Impacts." *International Journal of Public Administration*, 18(1): 149-165, 1995.
- Bhat, M.G.** "Troubled Fur Trade and Implications for Wildlife Damage Management." *Choices* (The Magazine of Food, Farm, and Resource Issues of the American Agricultural Economic Association), Fourth Quarter, 1994, p. 37-38.
- Bhat, M. G.**, R. G. Huffaker and S. M. Lenhart. "Controlling Forest Damage by Dispersive Beaver Populations: Centralized Optimal Management Strategy." *Ecological Applications*. 3(3):518-530, 1993.
- Bhat, M. G.**, K. C. Hiremath and H. Basavaraj. "An Economic Enquiry into the Adoption of High-Yielding Cereal Varieties in Karnataka." *Prajnan: Journal of Social and Management Sciences*, 22(1):37- 48, April-June 1993.
- Bhat, M. G.** and R. G. Huffaker. "Private Property Rights and Forest Preservation in Karnataka Western Ghats, India: Reply" *American Journal of Agricultural Economics*, 75(2): 496-498, May 1993.

Huffaker, R. G., **M. G. Bhat**, and S. M. Lenhart. "Optimal Trapping Strategies for Diffusing Nuisance-Beaver Populations." *Natural Resources Modeling*, Vol. 6(1): 71-97, 1992.

Lenhart S. M. and **M. G. Bhat**. "Application of Distributed Parameter Control Model in Wildlife Damage Control Management." *Mathematical Models and Methods in Applied Sciences*, 4(2): 423-439, 1992.

Bhat, M. G. and R. G. Huffaker. "Private Property Rights and Forest Preservation in Karnataka Western Ghats, India." *American Journal of Agricultural Economics*, 73(2): 375-87, May 1991.

Book Chapters

Miles Medina, Krish Jayachandran, **Mahadev Bhat**, David Specca, 2016. "Recirculating Aquaculture Systems (RAS) and Aquaponics for Urban Food Production, with a Pictorial Guide to Aquaponics." In *Sowing Seeds in the City*, Sally Brown, Kristen McIvor, Elizabeth Hodges Snyder (Eds.), Springer Netherlands, p. 293-308.

Bhat, M. G., M. McClain, D. Ombara, W. Kasanga and G. Atisa. "Payment for Watershed Services in the Mara River Basin: Part I - Institutions and Stakeholder Engagement." In *Nile River basin: Ecohydrological Challenges, Climate Change and Hydropolitics*. Assefa M Melesse, Wossenu Abteu and Shimelis G. Setegn (Editors), Springer, 2014.

Hashimoto, K.*, **M. G. Bhat**, M. McClain, D. Ombara, and W. Kasanga. "Payment for Watershed Services in the Mara River Basin: Part II – An Analysis of Stakeholders' Perceptions and Willingness to Implement Conservation Practices." In *Nile River basin: Ecohydrological Challenges, Climate Change and Hydropolitics*. Assefa M Melesse, Wossenu Abteu and Shimelis G. Setegn (Editors), Springer, 2014.

Bhat, M. G. "Property Rights and Externalities." In *21st Century Economics: A Reference Handbook*, Rhona Free (Editor). Sage Publications, 2010, p. 227-236.

Alemu, Bisrat, M. G. Chandrakanth, and Mahadev G. Bhat. "Impact of Watershed Development Programme in Augmenting Groundwater Resource in Drought Situation." In *Watershed Management: Issues and Policies for 21st Century*, K. Palanisami, D. Suresh Kumar and B. Chandrasekaran (Editors). 1st ed. New Delhi: Associated Publishing Company. 2002. pp. 341.

Book Reviews

Water Resource Economics: Towards a Sustainable Use of Water for Irrigation in India. M. G. Chandrakanth, Springer, New Delhi: 2015. xli +212 pages. ISBN 978-81-322-2478-5, ISBN, 978-81-322-2479-2 (eBook), DOI 10.1007/978-81-322-2479-2 for *Current Science*, VOL. 111, NO. 2, 25 JULY 2016.

Environmental Valuation in South Asia, edited by A. K. Enamul Haque, M. N. Murty, and Priya Shyamsundar, New York, Cambridge University Press, 2011, xix + 477 pp., for *Journal of Natural Resources Policy Research*, 2012

Classic Papers in Natural Resource Economics, edited by C. Gopalakrishnan. New York: St. Martin's Press, Inc., 2000, 348 pp., for *American Journal of Agricultural Economics*, January 2001.

Research Reports, Project Reports and Theses

Bhat, M. G. de La Rosa, N., and K. Jayachandran, "Training and Government Program Access for Veteran and Socially Disadvantaged Farmers and Nursery Growers in South Florida." Four Quarterly Progress Reports Submitted to US Department of Agriculture, Office of Advocacy and Outreach for periods ending June, 2015, September 2015, December 2015, and March 2016.

Bhat, M. G. de La Rosa, N., and K. Jayachandran, "Veterans and Small Farmers Outreach Program." Two Quarterly Progress Reports Submitted to US Department of Agriculture, Office of Advocacy and Outreach for periods ending December, 2015, March 2016, June 2016.

Chandrakanth, M. G., S. Mulimani, H. Karibasappa, H. Sadhana, R. S. Kulkarni, K. Shah, A. V. Manjunatha, M. H. Tatagar, A. Mohan Rao, M. G. Bhat, and R. Bhatta. "Economics of value addition in Oleoresin: Implications for Access and Benefit Sharing of Byadagi Chilli in Karnataka." Report submitted to The Karnataka Biodiversity Board Ground Floor, Vanavikas 18th Cross Malleshwaram Bangalore, September 2015.

Alvarez-Ventura, S., M. G. Bhat, K. Jayachandran, P. Maul, A. Toro, and Adoghe, L. Florida-Caribbean Consortium for Agriculture Education and Hispanic Workforce Development (FCCAgE). Progress Report for the Period ending August 2012, 2013 and 2014. Submitted to the Department of Agriculture under the Cooperative Agreement 2011-38422-30804, Department of Earth and Environment, Florida International University, Miami, November 2012, 2013, 2014, 2015 (**four years** in a row).

Jayachandran, K. and M. Bhat. "Multicultural Undergraduate Scholars in Agroecology and Urban Landscape at Florida International University: An Interdisciplinary Approach." Progress Reports submitted to the Department of Agriculture under the cooperative agreement, 2007-38413-17816, Florida International University, 2015.

Jayachandran, K. and M. Bhat. "Training Multicultural Undergraduate Scholars in Agriculture and Environmental Sciences at Florida International University" Progress Reports submitted to the Department of Agriculture, under the cooperative agreement, 2009-38413-05236, Florida International University, 2015.

Jayachandran, K. and M. Bhat. "Biofuels Science Education at Florida International University." Annual Progress Report Submitted to USDA. August 2015.

Bhat, M. G., and K. Jayachandran. "Internalization of biofuel research, curriculum, and business promotion: Annual Progress Report for Period ending August 2011." Final Technical Report submitted to the Department of Agriculture under the Cooperative Agreement 2008-51160-04356, Department of Earth and Environment, Florida International University, Miami, November 2012.

Bhat, M. G., R. Bhatta, and M. Shumais, "User-based Financing of Marine Protection in the Maldives." SANDEE Working Paper No. 57-11, South Asian Network for Development and Environmental Economics (SANDEE), Kathmandu, Nepal, February 2011, p. 18.

Bhat, M. G. Multiple chapters on Water Markets, Payment for Environmental Services, Regulatory and Market-based Water Allocation in *Water Guide*, to be published by US Agency for International Development, 2011.

Onsted, J., M. G. Bhat, K. Jayachandran, and "Limits to Growth in Agriculture and Sustainable Farming Systems." Final Technical Report Submitted to the US Department of Agriculture under the Cooperative Agreement 2006-51160-03409, Department of Earth and Environment, Florida International University, Miami, July 2010.

Mahadev Bhat, Doris Ombara, Michael McClain, George Atisa, and William Kasanga, *Payment for Watershed Services in the Mara River Basin*. Global Water for Sustainability Program, Florida International University, 2010, 41p.

Bhat, M. G., G. Philippidis, K. Jayachandran, A. Melesse. "Internationalization of Biofuel Research, Curriculum and Business Promotion." Half-Year Progress Reports Submitted to the Department of Agriculture under the Cooperative Agreement 2008- 51160-04356, Department of Environmental Studies, Florida International University, Miami, for periods ending:

August 2011, August 2010, June 2009 and December 2008 (four reports)

Bhat, M. G., K. Jayachandran, A. Melesse, J. Onsted, and S. Koptur. "Curriculum Enrichment, Instrumentation, Experiential Learning in Agroecology." Annual Progress Reports Submitted to the Department of Agriculture under the Cooperative Agreement 2008-38422-19209, Department of Earth and Environment, Florida International University, Miami, for the period ending:

July 2009, July 2010, July 2011.

Bhatta, R., M. G. Bhat, and M. Shumais. "Economic Valuation of Marine Resources of Maldives." Technical Report Submitted to South Asian Network for Development and Environmental Economics, Environmental Protection Agency, Ministry of Housing, Transport and Environment, Republic of Maldives, Male, July 2009.

Bhat, M. G., K. Jayachandran, A. Melesse, J. Onsted, and S. Koptur. "Curriculum Enrichment, Instrumentation, Experiential Learning in Agroecology." Progress Report Submitted to the External Evaluator under the Department of Agriculture's Cooperative Agreement 2008-38422-19209, Department of Environmental Studies, Florida International University, Miami, February 2009.

Bhat, M. G., J. Onsted, M. Alen, K. Jayachandran, A. Melesse, and A. Ravinet. "Limits to Growth in Agriculture and Sustainable Farming Systems." Half-Yearly Progress Reports Submitted to the US Department of Agriculture under the Cooperative Agreement 2006-51160-03409, Department of Environmental Studies, Florida International University, Miami, for periods ending:

June 2009, December 2008, June 2008, December 2007, June 2007, September 2006 (a total of Six reports).

Bhat, M. G., K. Jayachandran, A. Melesse, and S. Koptur. "Curriculum Development, Curricular Development and Capacity Building in Agroecology Sciences." Annual Technical Reports Submitted to the US Department of Agriculture under the Cooperative Agreement 2005-38422-15940, Department of Environmental Studies, Florida International University, Miami, for periods ending:

July 2008, July 2007, July 2006 (a total of three reports)

Bhat, M. G., M. Alen, K. Jayachandran, A. Melesse, and A. Ravinet. "Limits to Growth in Agriculture and Sustainable Farming Systems." Progress Report (May 2006- December 2007) Submitted to the External Evaluator under the US Department of Agriculture's Cooperative Agreement 2006-51160-03409, Department of Environmental Studies, Florida International University, Miami, January 2008.

Bhat, M. G., K. Jayachandran, A. Melesse, and S. Koptur. "Curriculum Development, Curricular Development and Capacity Building in Agroecology Sciences." Annual Progress Report (Year 2: 2006-07) Submitted to the External Evaluator under the US Department of Agriculture's Cooperative Agreement 2005-38422-15940, Department of Environmental Studies, Florida International University, Miami, January 2008.

Bhat, M. G., K. Jayachandran, A. Melesse, and S. Koptur. "Curriculum Development, Curricular Development and Capacity Building in Agroecology Sciences." Annual Progress Report (Year 1: 2005-06)

Submitted to the External Evaluator under the US Department of Agriculture's Cooperative Agreement 2005-38422-15940, Department of Environmental Studies, Florida International University, Miami, October 2006.

Bhat, M.G., K. Lipartito, L. Ogden, and D. Dustin. "A Handbook for Agencies for Engaging the Public in the Ecosystem Restoration Programs in South Florida." Annual Progress reports submitted to the National Park Services, under the cooperative agreement #1443CA5280-010016, Department of Environmental Studies, Florida International University, Miami, Florida, for periods ending:

September 2003, May 2003, August 2002 (a total of three reports)

Ogden, L., M. G. Bhat, K. Lipartito and D. Dustin. "A Handbook for Agencies for Engaging the Public in the Ecosystem Restoration Programs in South Florida." A technical report submitted to the National Park Services, Department of Environmental Studies, Florida International University, Miami, Florida, 2003.

Bhat, M. G. and R. Bhatta. An Economic Analysis of Sustainability of Marine Fish Production in Karnataka, India, Submitted to Indira Gandhi Institute for Development Research, Mumbai Under World Bank Aided India: Environmental Capacity Building Technical Assistance Project, October 2001.

Bhatta, R., K. Aruna Rao, M. G. Bhat, G. Sagarad, and K. Shilpakala. Alternative Fishery Regulations and their Impacts on Employment Generation and Demographic Transition in the Maritime State of Karnataka. Research Report Submitted to Indian Council of Agricultural Research, New Delhi, August 2000.

Alexander, R.R. and M.G. Bhat. Agricultural Policy and Social Welfare: A Game-Theoretic Rationalisation. Discussion Paper No. 98.04, Department of Applied and International Economics, Massey University, Palmerston North, New Zealand, March 1998.

Bhat, M.G. US-India Planning Visit: Research on Multi-tier Conflict Resolution to the Case of Biodiversity Patenting. Final Trip Report Submitted to the National Science Foundation, September 1997.

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Press Conference:

"Global Warming Solution" Presented at the Press Conference Organized by the Friends of Florida Environment, Miami, June 2008.

"The Environmental Impacts of Commercial Aquaculture on Coastal Ecosystem in Karnataka." Mangalore, Karnataka, India, July 1997.

"Forest Preservation in Uttara Kannada District." Sirsi, Karnataka, India, March 1993.

Conference Proceedings:

Accavva, M. S., Chandrakanth, M. G., Changappa, P. G., Bhat M. G. and Nagaraj, M. G., and Chengappa, C. G. "Sustainability and Existence Value of Devara Kaadu (Sacred Grove) Institution in Kodagu, India."

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Refereed Conference Presentations (Selection Based on Abstracts):

Bhat, M. G., K. Jayachandran, N. de La Rosa, and J. Mills. "Role of Veterans in Agriculture and Food Security: Factors Influencing their Long-Term Success in Farming." Presented at the International Society of Ecological Economics Conference, Washington, D.C., June 2016.

Bhat, M. G., N. Seteram, B. Pierce, and D. Die. "Socio-economic impacts of expanded habitat protection in Pulley Ridge, Florida Gulf Coast." Paper to be presented at the 13th International Coral Reef Symposium, Honolulu, Hawaii, USA, June 2016.

Cavazos, K. and M. G. Bhat. "Bioeconomic Evaluation of Marine Reserve Size: Protecting Restored Coral Reefs while Maximizing Fishery Value." Poster to be presented at the 13th International Coral Reef Symposium, Honolulu, Hawaii, USA, June 2016.

Brown, C. M. G. Bhat, J. Rehage, R. Boucek, J. Osborne, P. Mozumder and V. Engel. "An Integrated Framework for Linking the Ecosystem Services Valuation with the Freshwater Flow in the Florida Everglades." Presented at the International Society of Ecological Economics Conference, Washington, D.C., June 2016.

Kumar, Kiran, MG Chandrakanth, M. G. Bhat and A.V. Manjunatha. "Sustainable path of extraction of groundwater for irrigation and Whither Jevons paradox in hard rock areas of India." American Association of Agricultural Economists Association & Western Agricultural Economics Association Joint Annual Meeting, California, July 2015.

Brown, C.* , M. G. Bhat, J. Rehage, P. Mozumder, V. C. Engel, M. C. Sukop, J. Lee, R. Boucek, N. Seeteram, and J. Bolson. "Valuation of Fishery Ecosystem Services of the Everglades Water Management." Poster presented at the Greater Everglades Ecosystem Restoration Conference, Coral Springs, Florida, April 2015.

Sukop, M. C., V. C. Engel, M. G. Bhat, J. Bolson, J. Czajowski, M. Flaxman, J. D. Fuentes, A. Mirchi, P. Mozumder, H. Nguyen, J. Rehage, J. Smoak, Y. Takatsuka, D. Watkins, R. Weisskoff. "Ecosystem Service Valuation and Hydro-Economic Optimization of South Florida Water Resources." Poster presented at the Greater Everglades Ecosystem Restoration Conference, Coral Springs, Florida, April 2015.

Jerath, M. * , M. G. Bhat, V. H. Rivera-Monroy, E. Castañeda-Moya, M. Simard, R. R. Twilley. "Pricing the Carbon Right: The Case of the Everglades Mangroves." Paper presented at the Greater Everglades Ecosystem Restoration Conference, Coral Springs, Florida, April 2015.

Corrales, J. * , Naja, G.M., Bhat, M.G., Miralles-Wilhelm, F. A Phosphorus Credit Trading Program in an Agricultural Watershed. ACES Conference. Washington, DC. December 8 – 12, 2014.

Jungman, A.* , M. Bhat, K. Jayachandran and B. Gowda, 2012. "The Use of *Simarouba glauca* Seed Oil as a Feedstock for the Production of Biodiesel Using a Small Scale Model Developed in India." Poster Presented at the United Soybean Board Biobased Products Stakeholders' Workshop, Dearborn, Michigan, August 6-7, 2012.

Dewsbury, B.M.* , Bhat, M., and J.W. Fourqurean. "An optimal solution for the valuation of seagrass ecosystems." Ecological Society of America, Portland, Oregon, August 2012.

Bhat, M. G., S. Alvarez-Ventura* , A. Jungman* , T. Velez* , A. Zangari* , K. Jayachandran and B. Gowda. "Sustainable Bioenergy: Moving Beyond the Food-Fuel Controversy." Presentation at the International Society of Ecological Economics, Rio de Janeiro, Brazil, June 2012.

Jareth, Meenakshi* and M. Bhat. "Alternative approaches to valuing carbon sequestration in mangroves." Presentation at the International Society of Ecological Economics, Rio de Janeiro, Brazil, June 2012.

Chen, Yu* and M. Bhat. "Parental Altruism in Freshwater Management." Presentation at the International Society of Ecological Economics, Rio de Janeiro, Brazil, June 2012.

Dhavala, K.* and M. Bhat. "Economics of Emission Trading in the Context of Kyoto Protocol for Greenhouse Gas Reduction." Presentation at the International Society of Ecological Economics, Rio de Janeiro, Brazil, June 2012.

Alvarez-Ventura, S.,* M. Bhat, and K. Jayachandran. "Engaging Urban K-12 Agriculture-Science Education by Training the Trainers." Presented at the North American Colleges and Teachers of Agriculture Annual Conference, Edmonton, Canada, June 2011.

Velez, T.,* M. Bhat, and K. Jayachandran. "The Role of Co-curricular Education in Enhancing Class Room Agricultural Science Program in an Urban University." Presented at the North American Colleges and Teachers of Agriculture Annual Conference, Edmonton, Canada, June 2011.

Jungman, A.,* M. Bhat, and K. Jayachandran. "Internalization of Agricultural Curriculum at Florida International University: Evaluation of Student Experiential Learning Outcome." Presented at the North American Colleges and Teachers of Agriculture Annual Conference, Edmonton, Canada, June 2011.

Dewsbury, B.,* M. Bhat, and J. Fourqurean. "An optimal solution for the valuation of seagrass ecosystems." Presented at the US Ecological Economics Society Conference, June 2011.

Bhat, M. G. and K. Jayachandran. "Agriculture Science Education in Minority-Serving, Urban Universities: Service Learning, Collaboration, and Community Engagement." Presented at the North American Colleges and Teachers of Agriculture Annual Conference, State College, Pennsylvania, June 2010.

Atisa, G.* , M. G. Bhat and M. McClain. "Economic Assessment of Best Management Practices in the Mara River Basin, Kenya: Toward Implementing Payment for Watershed Services." Paper presented at the US Society for Ecological Economics, Washington, DC., May 2009.

Bhat, M., M. McCain, G. Atisa*, D. Ombara and W. Kasanga. "Payment for Environmental Services in the Mara River Basin of Kenya and Tanzania: Challenges and Opportunities," Presented at the International Society for Ecological Economics Conference held in Nairobi, Kenya, August 2008.

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Bhat, M., L. H. Gladwin, G. Hollander, L. Ogden, J. Onsted, R. Roy Chowdhury, R. Tardanico, R. Garvoille. 2008. "Human Dimensions Working Group." Paper presented at the Florida Coastal Everglades All Science Meeting. Coral Gables, FL March 17, 2008.

Jayachandran, K., M. Bhat, G. Bobeche*, C. Clark-Cuadrado*, and A. Melesse. "Agroecology Program at Florida International University." Paper presented at the ASA-CSSA-SSSA International Annual Meetings, Indianapolis, November 12-16, 2006.

Stone, K.* , M. G. Bhat and R. Bhatta. "Shrimp Aquaculture in Florida: A Sustainable Model." Poster accepted for presentation at the ASA-CSSA-SSSA International Annual Meetings, Indianapolis, November 12-16, 2006.

Taylor, L. * and M. G. Bhat. "An Assessment of Public Engagement in the Everglades Restoration Projects." Presentation at the Joint Conference of the Science and Restoration of the Greater Everglades and Florida Bay Ecosystem, Palm Harbor, Florida, April 2003.

Rivera, C. * and M. G. Bhat. "Water Pricing as a Conservation Tool: An Economic Analysis of the Lower East Coast of South Florida Water Utilities." Accepted for presentation at the Joint Conference of the Science and Restoration of the Greater Everglades and Florida Bay Ecosystem, Palm Harbor, Florida, April 2003.

M. G. Bhat. "Exclusivity and Expropriation in Bioprospecting: Endogenous Rent Determination for Biodiversity Conservation." Presented at the 2002 World Congress of Environmental and Resource Economists, Monterey, California, June 24 - 27 2002.

- Chandrakanth, M. G. and M. G. Bhat. "Institutions, Markets and the Management of Common Property Sacred Groves in India." Presented at the 2002 World Congress of Environmental and Resource Economists, Monterey, California, June 24 - 27 2002.
- M. G. Bhat, Marino Sebastian*, Ken Lipartito, and Irma Alanso. "Land-use Changes and Flood Protection Policies in South Florida." Presented at the Greater Everglades Ecosystem Restoration Conference, Naples, Florida, December 11-15, 2000.
- M. G. Bhat. "Protecting Indigenous Knowledge under the New International Intellectual Property Rights Regime." Presented at the International Society for Ecological Economics Conference at Canberra, Australia, July 5-9, 2000.
- M. G. Bhat and R. Bhatta. "Aquaculture and Sustainable Coastal Land Management: An Ecological Economic Model of Resource Interactions." Presented at the International Society for Ecological Economics Conference at Canberra, Australia, July 5-9, 2000.
- M. G. Bhat and R. Bhatta. "Optimal Coastal Land Allocation Decisions: A Model of Interactive Renewable and Non-renewable Resources" Paper presented at the 1999 World Conference on Natural Resource Modeling, Halifax, Canada, June 1999.
- Alexander, R. and M. G. Bhat. "Modeling Natural Resource Policy as a Hierarchical Stackelberg Game." Paper presented at the 41st Annual Conference of the Australian Agricultural and Resource Economics Society, Gold Coast, Queensland, Australia, January 1997.
- Chembezi, Duncan M., Scott T. Bush, and Mahadev G. Bhat. 'Proposed Regulatory Policies and the Future of Tobacco Production in Selected Southern States.' Paper presented at the Missouri Valley Economic Association (MVEA) Thirty-Second Annual Meeting, Memphis, Tennessee, March 7-9, 1996.
- Chembezi, D. M., R. M. Pendergrass, M. G. Bhat, S. Bush, J. Huarachi and D. E. Ray. "State, Community, and Farm-Level Impacts of Increasing Cigarette Excise Tax: The Case of Tennessee, Virginia and Ohio." Poster Presentation at the American Agricultural Economics Association Meeting; abstract published, *American Journal of Agricultural Economics*, 60(1995): 1353.
- Bhat, Mahadev G., Duncan M Chembezi, Daniel G. De La Torre Ugarte, and Daryll E. Ray. 'Economic Impacts of a Cigarette Tax Increase on the U.S. Tobacco Industry.' Abstract Published in *Journal of Agricultural and Applied Economics*, 27(1)(1995), pp 315.
- Alexander, R., M. G. Bhat and B. C. English. "Considering Environmental Impacts in Target Price Policy." Selected poster presentation at the American Agricultural Economics Association Meeting, Orlando, FL, August 1993.
- Bhat, M. G. "The Success and Failures of Property Right Systems; Mutual Lessons for Developing and Developed Countries." Selected paper presentation at the Soil and Water Conservation Society Meeting, August 1993; abstract published.
- Bhat, M. G., B. C. English and A. Turhollow. "Biomass Energy Crops: A New Option for Improving Water Quality in Intensive Agricultural Production System." Selected paper presentation at the Soil and Water Conservation Society Meeting, August 1993; abstract published.
- Bhat, M. G. "Management of Transboundary Wildlife Populations: A Differential Game-theoretic Planning." Paper presentation at the Twelfth Pacific Coast Resource Modeling Conference, Tucson, Arizona, May 1993.

Bhat, M. G., and L. H. Keller. "Centralized Community Approach for Managing Wildlife Damage." Poster Presentation at the American Agricultural Economics Association Annual Meeting, Baltimore, MD, August 1992; abstract published American Journal of Agricultural Economics, 74(1992): 1310.

Pendergrass, Robert, Mahadev Bhat and Daryll Ray. "Community Level Impact of Limited Input Sustainable Agriculture on a Small Tennessee Watershed." Poster presentation at the American Agricultural Economics Association Annual Meeting Baltimore, MD, August 1992; abstract published, American Journal of Agricultural Economics, 74(1992): 1311.

Alexander, R.R., B.C. English, M.G. Bhat, M.A. Ojo and R.G. Bowling. "The Economic Impacts of Biomass Energy Production in the Watts Bar Region." Poster presentation at the American Agricultural Economics Association Annual Meeting, Baltimore, MD, August 1992; Abstract published, American Journal of Agricultural Economics, 74(1992): 1309.

Graham, Robin, M Downing, B.C. English, R.R. Alexander and M.G. Bhat. "Projecting the Environmental Effects of Energy Crop-Development in the TVA Region." Presented at the SAMAB Conference, Gatlinburg, TN, November 1992.

Graham, R., B.C. English, R.R. Alexander and M.G. Bhat. "The Production of Biomass Feedstock for a Proposed Power Facility: Projecting Regional Land Use Changes and Their Environmental Consequences." Presented at the Seventh Annual U.S. Landscape Ecology Symposium, Corvallis, OR, April 1992.

Graham, Robin, B.C. English, R.R. Alexander and M.G. Bhat. "Production of Biomass for an Energy Facility: Projecting Regional Land Use Changes and Their Environmental Consequences." Paper presented at the Walker Branch Watershed Symposium, Oak Ridge, TN, March 1992.

Bhat, M. G., B. C. English, and A. Turhollow. "Biofuels from Energy Crops: Economics and Environmental Impacts." Poster presentation at the American Agricultural Economics Association Annual Meeting, Manhattan, Kansas, August 1991; Abstract published, American Journal of Agricultural Economics, 73(1991): 1557.

Bhat, M. G., S. M. Lenhart, and L. H. Keller. "Optimizing Wildlife Damage by Diffusing Furbearer Population on the Southern Forests: A Bioeconomic Model." Poster presentation at the Fifth Eastern Wildlife Damage Control Conference, Ithaca, New York, October 1991.

English, Burton C., and Mahadev G. Bhat. "Economic and Environmental Aspects of Producing Selected Energy Crops." Paper presented at the American Agricultural Economics Association Annual Meeting, Manhattan, Kansas, August 1991.

Refereed Conference Presentations (Selection Based on Full-length articles):

Jerath, M.*, M. G. Bhat and V. H. Rivera-Monroy. "Alternative Approaches to Valuing Carbon Sequestration." Presentation at the International Society of Ecological Economics, Rio de Janeiro, Brazil, June 2012.

Bhat, M. G., T. Rajendra* and M. G. Chandrakanth. "Strategic and Stock Externalities in Common Property Groundwater Management Policies." Presented at the 2006 World Congress of Environmental and Resource Economists Monterey, Kyoto, Japan, July 2006.

Bhat, M. G., R. R. Alexander and B. C. English. "Toward Controlling Nonpoint Source Pollution of Groundwater: A Hierarchical Policy Formulation Game." Contributed paper presented at the Australian Agricultural and Resource Economics Society conference, Christchurch, New Zealand, January 22, 1999.

Bhat, M. G. and R. Bhatta. "Irreversible Environmental Development and the Survival of Subsistence Agriculture in Coastal India." Presented at the XXIII International Conference of Agricultural Economics, Sacramento, California, August 1997.

Bhat, M. G. "Intellectual Property Rights in Biological Resources and Optimal Extinction." Selected paper presentation at the Association of Environmental and Resource Economists Meetings, January 1995.

Bhat, M. G., D. M. Chembezi, D. G. De La Torre Ugarte, and D. E. Ray. "Economic Impacts of a Cigarette Tax Increase on U.S. Tobacco Industry." Paper presented at the Southern Agricultural Economists Association, New Orleans, January-February 1995, abstract published, *Journal of Agricultural and Applied Economics*, 27(1995):315-316.

Bhat, M. G. and R. G. Huffaker. "Optimal Control of Nuisance Wildlife Populations on a Shared Animal Habitat: Some Game-theoretic Considerations." Selected paper presentation at the American Agricultural Economics Association Meeting, Orlando, Florida, August 1993; Abstract published, *American Journal of Agricultural Economics*, 75(1993): 1309.

Invited Conference Presentations:

Bhat, M.G., Jayachandran, K. and Alvarez-Ventura, S. "Connecting Borders through Biofuels: Collaborations between FIU and Indian Agricultural Universities and Agencies." Poster presentation at the 99th Indian Science Congress, Bhuvaneswar, India, January 2012.

Alvarez-Ventura, S., Bhat, M.G., Jayachandran, K. and Velez, T. "Life Cycle Analysis of Biodiesels in India." Poster presentation at the 99th Indian Science Congress, Bhuvaneswar, India, January 2012.

"Management Applications of Bioeconomic Models for Migratory Wildlife Species." Paper presented at the *Sixteenth Vertebrate Pest Conference*, Santa Clara, California, March 1994.

"Regional Costs of Biofuel Production." Poster presented at the *Biofuels Feedstock Development Program's (BFDP) Annual Workshop*, Davis, California, September 1991.

Panel and Roundtable Discussion:

"The Global Food Security." New York Times Roundtable Discussion, FIU Global Learning Initiative, February 5, 2013. Published on Youtube on February 22, 2013, and Available at <http://www.youtube.com/watch?v=ED3Xol22mHM>.

"Urban Agriculture and Agroecology for Sustainable, Healthy and Local Food." At the *Ecological Integrity: Connecting Humans, Health and Habitat* Conference organized by Center for Earth Jurisprudence, July 2010.

"Crisis and Opportunity: Critical Environmental Issues Facing South Florida" Opening Remarks at the FIU College of Law's 1st Annual Earth Day Panel discussion, April 2005.

"Sustainable Food Production on Small-scale Farms." Presented during the Expert Panel Discussion on the occasion of the World Food Day Celebration at FIU, 2003.

"Agriculture and Water Resource Problems in Developing Countries." Panel Discussion, Earth Day Celebration, Florida International University, Miami, FL, 1994.

"Soil and Water Conservation: Is a New Balance between Private Property Rights and Responsibilities Needed?" *1992 Berg Fellowship - Public Conservation Policy Forum*, Soil and Water Conservation Society Annual Meeting, Baltimore, MD, August 1992.

Popular Magazines, Newsletters, and Reports:

Bhat, M. G. and M. McClain, "Exploring the Role of Payment for Environmental Services in River Basin Management: The case of the Mara River Basin of East Africa," *Basins and Coast News*, 2(2): 2-7, July 2008.

M. G. Bhat, K. Lipartito, and T. Rice. "FIU Research Group To Address Human Dimensions of Ecosystem Restoration." FIU-SERC NewsLetter, July 2000.

M. G. Bhat and K. Lipartito. "Integration of Behavioral Sciences into the South Florida Environmental Restoration: Portfolio for Research and Outreach." A Marketing Document Prepared for the FIU Human Dimensions of the South Florida Environment Group, August 1999.

Bhat, M. G. "Short-Term Forecast for Tennessee Agriculture." in W. F. Fox and P. A. Price (eds.), *An Economic Report to the Governor of the State of Tennessee: On the State's Economic Outlook*. Center for Business and Economic Research, The University of Tennessee, Knoxville, January 1994.

Bhat, M. G. and R. White. "EEC's Wild Fur Regulations and Wildlife Damage Implications." *The Probe*. Issue 122, June 1992.

Invited Papers, Seminars, Testimony and Presentations:

"Assessment Methods for Economic Valuation of Estuaries: Insights from the Florida Everglades Study." A Keynote Speech given at the Expert Consultation Workshop on Assessment of Ecological-Economic Benefits of Aghanashini Estuary, Karnataka, Kumta, Karnataka, India, April 2016.

"Linking Hydro-Ecological Relationships to Economics for Recreational Fisheries in the Coastal Everglades." By Brown, C. E., M. G. Bhat, J. Rehage, M. Sukop, and R. Boucek at the National Science Foundation All Project Directors Meeting, Washington, D.C., March 2016.

"Urban community gardens in South Florida." Guest Lecture for the FIU School of Architecture's Landscape Architecture Studio, February 2016.

"Integrated Water Resources Management: From Concept to Action for Sustainable Water Use" A Keynote speech given at the Workshop on Regional Water Resource Management held by Taluk Marketing Cooperative, Sirsi and Havyaka Association of America, Sirsi, October 2015.

"The mangroves: more valuable than they look." Science Café, Center for Ocean Sciences Education Excellence, University of Miami, June 30, 2015

"Economic Valuation of Coastal/Marine Ecosystem Goods and Services." By R. Bhatta and M. G. Bhat, a presentation at the Karnataka Biodiversity Board's Workshop on Economic Valuation of Bio-resources for Access and Benefit Sharing, Bangalore, India, June 2015.

"Issues concerning valuation of agricultural biodiversity." By M. G. Chandrakanth, RS Kulkarni, M.S. Suneetha, M. G. Bhat, and R.S. Deshpande. a presentation at the Karnataka Biodiversity Board's Workshop on Economic Valuation of Bio-resources for Access and Benefit Sharing, Bangalore, India, June 2015.

"A Primer on community food system: linking food, environment and economy." 1st International Workshop on Agroecology and Sustainable Agriculture, Miami, May 2015.

“Local food system charrette.” Conducted at the 1st International Workshop on Agroecology and Sustainable Agriculture, Miami, May 2015.

“Agriculture and the Environmental Sustainability: A success Story of Costa Rica.” Guest Lecture to the FIU Honors College Field Course, October 2014.

“Agroecology and sustainable food production.” Presented to Dietetics and Nutrition Department Summer Intern Program, May, 2012.

“Ingredients” Discussant for the SEAS Environmental Movie Screening Program, Deering Estate, Miami, November 2012.

“Global Food Security.” Moderated student discussion at the New York Times Round Table, FIU Office of Global Learning, February 2013. Video Available: <http://youtube.com/GoGlobalFIU>.

“Economic framework for ecosystem services valuation.” Water Resources Sustainability, an NSF-funded Research Workshop, Florida International University, October 2012.

“Agroecology: Its Relevance for the New Decade and the Future.” Miami Dietetic Association, Miami, October 2011.

“Collaborative Grants Development.” National Federal Grants Conference & Webcast, US Department of Agriculture, Miami, Florida, October 21, 2011.

“Internalization of biofuel research, curriculum, and business promotion: Annual Progress Report for Period ending August 2011.” Presented at the National Project Directors Meeting, US Department of Agriculture, National Institute of Food and Agriculture, Washington, DC. June 2011.

“Agroecology Program at FIU.” Presented at the Teleconference of USDA Foreign Agricultural Service and FIU, jointly put together by the FIU Office of Community Engagement and UADA, April 2011.

“Economic framework for ecosystem services valuation.” Water Resources Sustainability, an NSF-funded Research Workshop, Florida International University, March 2011.

“Biofuel Technology, Institution, and Economics: Experiences of Developing Countries,” Preparing Small and Medium Size Business Enterprises for a Green Energy Future, FIU Energy Security Forum, Miami, March 2011 (moderated with nine FIU student poster presentations).

“User-based Financing of Maldivian Atolls: Application of Travel Cost Model.” Presented to the Environmental Protection Agency, Male, Maldives, August 2010.

“The Return of Urban Food Gardens in America: Taking Control of our Own Food Production.” Presented at the Marine Environmental Initiative, Biscayne Bay Campus, Florida International University, April 2009.

“Payment for Watershed Services.” Presented at the Center for Economic and Social Studies, Hyderabad, India, March 2009.

“Game-theoretic Modeling in Groundwater Management” Presented at the University of Agricultural Sciences, Dharwad, India, March 2009.

“Criteria for Identifying Hispanic Serving Agricultural Colleges and Universities as Land Grant Colleges under the 2008 Farm Bill.” Testimony presented at the USDA Public Hearing Session on behalf of the Florida International University, Denver, October 2008.

“Payment for Environmental Services in the Mara River Basin: Preliminary Findings.” Presented at the World Wildlife Fund, Nairobi, Kenya, August 2008.

“Payment for Environmental Services in the Mara River Basin: Challenges and Opportunities.” Presented at the US Agency for International Development, Nairobi, Kenya, August 2008.

“Agroecology Program at FIU.” 7th Annual South Florida Environmental Ethics Conference, Virginia Keys, Florida, February, 2008.

“Economics of water markets” Guest Lecture presented at the Integrated Water Resources Management course offered by Michael McClain, November 2007.

“Sustainability in Small-Scale Production Systems of Plantation Agriculture in India” Miami South Ridge Senior Highschool, March 2008.

“Environmental Economics and Sustainable Development.” Guest Lecture presented at the Global Environmental Issues class by Jack Parker., November 2006.

“Environmental Issues in Japan.” Guest Lecture to FIU JapNet Program, Asian Studies Institute, Florida International University, February 2007.

“Emerging Asian Environmental Issues.” Guest Lecture to Modern Asian Issues class, February 2007.

“Financing Marine Protected Areas” Guest Lecture presented for the FIU-UNAM distance learning course on coastal resource management, November 2005.

Made two presentations on the new FIU agroecology program at a three-day national workshop of the Project Directors of grants under the 2005 USDA Hispanic-Serving Institutes Higher Education Program, March 2006.

“Economics of Water Markets” Guest Lecture presented at the Ecotourism course, November 2006.

"Behavioral Sciences of the Everglades Restoration: A Missing Piece from the Puzzle." A Statement Presented to the Committee on Restoration of the Greater Everglades Ecosystem of the National Research Council, Hollywood, Florida, December 2-3, 1999.

"Socioeconomic Study of Reefs in South East Florida" Proposal Presentation to the Department of Planning and Management, Environmental Division, Broward County Government, Fort Lauderdale, November 1999.

"FIU Human Dimensions of the South Florida Environment Group And Behavioral Science Research." Presented to the Science Coordination Team of the South Florida Ecosystem Task Force, Davie City, October 1999.

"Integration of Behavioral Sciences in to the South Florida Ecosystem Restoration Efforts." Presented to Miami-Dade Brown Field Redevelopment Plan Implementation Committee, Miami, August 1999.

“Economics and the Environment.” Guest lecture to FIU Liberal Studies Students, October 1998.

“Legal and Economic Instruments for the Protection of the Environment.” An invited speech at the Dakshina Kannada Parisarasaktha Okkoota, Mangalore, July 1997.

“Coastal Aquaculture: A Model for Sustainable Coastal Resource Development in India.” Fourth Annual Dr. V. G. Jhingran Memorial Lecture, Asian Fisheries Society, Mangalore, July 1997.

“An Ecological Economic Model for Estuary Management.” Graduate Seminar Series, Environmental Studies Department, FIU, March 1997.

“Controlling Migratory Nuisance-beaver Populations on a Shared Habitat: Some Game-theoretic Considerations.” Presented at the FIU Economics Department, November 1996.

“Environmental Planning and Sustainable Community.” presented to the students of Sustainable Community Development” FIU School of Design, October 1996.

“Bio-socio-economic Aspects of Fisheries Management.” Fisheries College, University of Agricultural Sciences, Mangalore, India, July 1995.

“Impact of Intellectual Property Rights on Biodiversity.” Mangalore University, Mangalore, India, July 1995.

“Mathematical and Statistical Models for the Management of Natural Resources.” Statistics Department, Mangalore University, Mangalore, India, July 1995.

"Is Sustained Development without Environmental Protection Possible?" Rotary Club's Weekly Seminar, Sirsi, India, March 1993.

"An Integrated National, State and Farm Level Modeling System for Agricultural Policy Impact Analysis." Department of Agricultural Economics, University of Agricultural Sciences, Dharwad, India, March 1993.

"Developing Biomass Production Systems." Paper presented to the USDA Soil Conservation Service, Washington, D.C., November 1992.

"From My Research Experiences in Mathematical Modeling in Natural Resource Economics." Lecture presented in the Undergraduate Summer Program, The University of Tennessee, Knoxville, July 1992.

"Sustainable Agriculture in a Tricounty Area of Northwestern Tennessee." Presented at the Meeting of East Tennessee Chapter of Soil and Water Conservation Society, Knoxville, March 1992.

"Controlling Wildlife Damage by Diffusing Beaver Population: A Bioeconomic Application of the Distributed Parameter Control Model". Paper presented at Control Seminar, Department of Mathematics, The University of Tennessee, Knoxville, September 1991.

"Optimal Trapping Strategy for Diffusing Beaver Populations." Paper presented at Systems Seminar, Department of Electrical Engineering, University of Tennessee, Knoxville, March 27, 1991.

"Project Lending for Development of Coconut Plantation in Puri District of Orissa State, India: A Cost-Benefit Analysis." A Group Project Presented at College of Agricultural Banking, Pune, India, April 1985.

Symposia and Workshops Organized:

Second International Workshop on Agroecology and Sustainable Agriculture, one week workshop consisting of lectures, charrette, and field trips, Miami, May 2016.

“Fruit Productions in the Tropics & Food Security” Annual Agroecology Symposium at Florida Internaitonal University, Miami, April 2016.

First International Workshop on Agroecology and Sustainable Agriculture, one week workshop consisting of lectures, charrette, and field trips, Miami, May 2015.

“Agriculture Science for the 21st Century.” A national conference organized for USDA HIS, Miami, November 2014.

“The Agroecology Movement in Food Security.” Annual Agroecology Symposium at Florida International University, Miami, April 2014.

“Food Security and the Next Green Revolution.” Annual Agroecology Symposium at Florida International University, Miami, March 2013.

“Best Practices in Sustainable Agriculture: Carbon Farming to Local Food Production.” Annual Agroecology Symposium at Florida International University, Miami, April 2012.

“Local Food Movement: Farm-Level Production Reality, and Successful Business and Marketing Strategies,” Annual Agroecology Symposium, Florida International University, Miami, March 2011.

“Summer Agroecology Workshop for High School Teachers.” Conducted a five-day workshop, along with K. Jayachandran at FIU for high school teachers as part of the USDA Hispanic Serving Institutes Education Grant Program, July 2010.

“Sustainable Agriculture: Challenges and Opportunities,” the Annual Agroecology Symposium at FIU--panel discussion, poster session and oral presentation sessions were held. More than 125 people, including FIU students and faculty, farmers and the area high school students attended the symposium, February, 2010.

“Sustainable Agriculture: Challenges and Opportunities,” the Annual Agroecology Symposium organized at FIU--panel discussion, poster session and several oral presentation sessions were held. More than 150 people, including FIU students and faculty, farmers and the area high school students attended the symposium, on February 24, 2009.

“Summer Agroecology Workshop for High School Teachers.” Conducted a six-day workshop, along with K. Jayachandran at FIU, for high school teachers as part of the USDA Hispanic Serving Institutes Education Grant Program, July 2008.

“Agroecology and Sustainable Agriculture: Challenges and Opportunities,” the Annual Agroecology Symposium organized at FIU--panel discussion, poster session and two student presentation sessions were held. More than 100 people, including FIU students and faculty, farmers and the area high school students attended the symposium, on January, 2008.

“Summer Agroecology Workshop for High School Teachers.” Conducted a six-day workshop, along with K. Jayachandran at FIU, for high school teachers as part of the USDA Hispanic Serving Institutes Education Grant Program, July 2006.

“Training Workshop on Gender and Economic Issues in Integrated Water Resource Management in the Mara River Basin.” Conducted a two-day workshop, along with Becky Zarger and WWF field staff, for volunteers and government officials in the Mara River Basin, as part of the capacity building under the USAID project on Integrated Water Resources Management (IWRM) Assistance to USAID Missions Worldwide, January 2006.

“Agroecology Workshop for FIU Students.” Conducted a day-long workshop at FIU in October 2006; More than 50 students who participated in various internship projects as part of the USDA Hispanic Serving Institutes Education Grant Program made oral and poster presentations.

“Application of Optimal Control Theory in Natural Resource Economics.” Conducted a day long workshop at University of Agricultural Sciences, Bangalore, India, October 2003.

“Public Participation and Egagement in Ecosystem Restoration Planning.” A day-long forum of invited community leaders to provide inputs for developing a handbook on public engagement under the National Parks Service’s CESI grant program, Florida International University, July 2003.

TEACHING ACTIVITIES

COURSES TAUGHT & PLANNED

- Introduction to Environmental Economics – over 35 times
- Natural Resource Economics* -- 5 times
- Environmental Sciences -- 2 times
- Intn’l Issues in Food Nutrition, Public Health and Economic Development* -- 13 times
- Sustainable Resource Development* -- 6 times
- Environmental Seminar (undergraduate) -- 1 time
- Environmental Seminar (graduate) -- 18 times
- Methods in Sustainable Resource Management* -- 5 times (graduate)
- Environmental Resource Policy* -- 18 times (graduate)
- Advanced Environmental Economics* -- 6 times
- Sustainable Agriculture* -- 8 times
- Asian Environmental Issues* -- 4 times
- Global Environmental Issues -- 2 times
- Microeconomics

* represents a new course.

STUDENT ADVISING: Advisor to more than 50 graduate students on their thesis/dissertation; for 30 as major advisor.

As Major Advisor of Master Students

Lourdes Gomez	John Paniccia	Simon Teixeira
Lara Taylor	Carolina Rivera	Bryna Griffin
Pablo Gottfried	Kimesha Reid	Kathy Stone
Emily Lofredo	Koji Hashimoto	Sandee Apang
George Atisa	Ric Soto	Karen Pannocchia
Dionne de Costa	Max Tritt	Daria Stapien
Stephany Alvarez-Ventura	Andrew Yungman	Meenakshi Jareth
Amour Selesman	Miles Medina	Nicole Pasi
Christophyer Estevez*	Diana Alexis*	Thais Beckman*

*Current

As Major Advisor of Doctoral Students

- Kihore Dhavala, Ph.D. in Economics
- Yu Chen, Ph.D. in Economics
- George Atisa, Ph.D. in Publi Administration
- Christinal Brown, Ph.D. in Economics*
- Kevin Covosos, Ph.D. in Earth System Sciences*

*Current

SERVICE ACTIVITIES

UNIVERSITY: Earth and Environment Department:

Chair, Agroecology Certificate, 2005 to present. Application review, student advising, certification review and reporting.

Graduate Program Director, Summer 1999 to Summer 2008. Administered the graduate program that had more than 40 students; responsibilities included application review and admission decision, student advising, implementation of the university and department graduate program regulations, student progress review, reporting, and program development.

Developed the proposal for the Doctoral Program in Environmental Studies; currently under review at the Provost's Office.

Conduct high school and community college visits yearly for the recruitment of students into the Agroecology and Environmental Studies programs (degree, certificate, workshops and internships), 2005 to present.

Managed the Masters International Program in conjunction with the US Peace Corps, 1999-2008; application, review, students advising, reporting, program promotion, hosting campus visits of USPC representatives.

Library Committee: (as chair since August 1999).

Budget Committee (as chair for four years); oversaw spending activities under CUP (1996-97) and OCO funds (1997-98), including development of equipment lists, requisition, and receiving.

Curriculum Committee (as a member during 1997-98 and the chair during 1998-99): Class scheduling since Fall 1997. Actively participated in all the curricular meetings and discussions. Discussed and finalized several major new courses, and curricular changes during the term.

Human Resources Committee (member): 1996-97.

Search Committee (member): 1995-96.

University Committees & Programs

Member, FIU BeyondPossibility 2020 Financial Strategy Working Group, 2015-16.

Member, FIU President's Committee on Sustainability, 2009 – 2010.

Member, FIU Building and Environment Committee, 2007-2008, 2013-present.

Coordinated the development and presentation of the FIU's position on the formation of the new land grant university system for Hispanic Serving Agricultural Colleges and Universities under the 2008 Farm Bill.

Direct the campus organic garden, as part of the Agroecology Program; planning and development, and student advising on different activities.

Initiated the campus food waste composting project, with the help of Agroecology Scholarship recipients.

Held meetings with Aramark associates and the representatives of the South Dade Soil Conservation District to look at the possibility of starting food and yard waste composting project. Talks are still underway.

Faculty Advisor to Student Club: helped establish the student Garden Club, an FIU chapter of the Minority in Agricultural and Natural Resources and Related Sciences (MANRRS) Association. More than 50 students are recruited; attended several meetings and developmental activities of students; organized bi-weekly Brown Bag lunches and three guest speakers for the chapter. Supported a student to attend the national MANRRS conference.

Developed and implemented the FIU Agroecology Program—the first ever agricultural science education program at FIU (<http://agroecology.fiu.edu>).

Coordinator, the FIU Human Dimensions of the South Florida Environment Group. Helped FIU to become a recognized authority in human dimension research and education concerning south Florida. Several S Fl agencies have approached this group for expert opinion and potential future collaboration.

Member, the Coordinating Committee for the Certificate in Environmental Studies.

Member, GIS Committee: Development of FIU GIS lab policy on lab use, publicity, course, user fees, etc.

Asian Studies Program: Developed a course for the Asian Studies Certificate Program; submitted research proposal to be included under the Program's various research grant proposals.

Served on the FIU Ecotourism Research Council and contributed an article on the Economics of Ecotourism to the Council's Checklist on Ecotourism Development and Planning.

Program Coordination/Administration

Served as acting department chair several times in the absence of a chairperson.

PROFESSION: Association Memberships

International Society for Ecological Economics
US Society for Ecological Economics (founding member)
Indian Society of Ecological Economics (life member)

Referee/Reviewer

Editorial Board Member:

Journal of Sustainable Agriculture

Journal articles:

Journal of Environmental Economics and Management

Journal of Sustainable Agriculture

Environment and Resource Economics

Environment and Development Economics

Ecological Economics

Natural Resources Modeling

Journal of Agricultural and Resource Economics
Water Resources Research
Journal of Sustainable Agriculture

Granting agencies:

US Department of Agriculture.
UK Economic and Social Research Council.
Oak Ridge National Laboratory's Ralph Powe Award Program

Books:

M. E. Sharpe Publishers.

Doctoral Dissertation:

Four different universities from India.

Served as a moderator at the American Agricultural Economics Association meetings.

Subject Matter Expert/Foreign Consultant:

Expert advisor for an marine environmental valuation project being held in Maldives under the support of SANDEES and through College of Fisheries, Mangalore, India, 2008 to present.

Invited to conduct a two-week special workshop at the National Center of Excellence in Natural Resource Economics, University of Agricultural Sciences, Bangalore, India, for training students and researchers in environmental economics and policy modeling, July 2001.

The above collaboration also has resulted in an economist from the above University visiting FIU in Spring 2001 for collaborative research.

Served as Environmental Economics Expert and Advisor on various fishery economics projects at the College of Fisheries, Mangalore, India under the World-Bank aided India-Environmental Capacity Building Technical Assistance Program, August 1999 - present.

COMMUNITY Advisory Boards/Councils

Member, Governing Council for the Center for Earth Juris Proudence, St. Thomas University and Barry University, Miami, Florida.

Member, Miami-Dade Public School District's Agribusiness and Natural Resources Education Advisory Committee, 2008 to present.

Member, Technical Review Committee for the South Dade Watershed Development Plan, 2003 – 2006.

External consultant, Environmental Economics Capacity Building Project in India, 1998-2002.

Review Team Member, Critical Ecosystem Science Initiative for Everglades Restoration, 2000-03.

Founding Member, US Ecological Economics Society, 1999.

Member, Biscayne Bay Partnership Initiative: Social Science Team, 2000-01.

Member, Critical Ecosystem Science Initiative, South FL Ecosystem Task Force, Water Planning Category Review Committee.

Co-Chair, Social and Human Issues Steering Committee, Greater Everglades Ecosystem Restoration Science Conference, Naples, Florida, August 2000 - present. Paper review and selection, participated in panel discussion to finalize social science agenda for future research; currently working on a book on the conference proceedings.

Member, NOAA Environmental Valuation Network for developing an *Environmental Valuation Guidebook for South Florida Marine Resources*, 1998.

Participated in a two-day workshop for developing the social science research agenda for the South Florida Ecosystem Restoration Task Force in February 1998.

Member, Social Science Steering Committee for organizing a conference on the Social Science Research Agenda for the South Florida Ecosystem Restoration, 1996-97.

Member, NOAA's Advisory Panel for developing a socioeconomic monitoring plan for the Florida Marine Sanctuary Programs. Attended the first planning meeting at Key Largo. Participated in a two-day workshop for developing socioeconomic monitoring plan for the marine sanctuary in January 1998.

Member, Energy Advisory Committee of the Governor's Commission for a Sustainable SF. Attended several meetings during the year and contributed to the final draft recommendations document on a sustainable energy program in South Florida.

Helped economists at the College of Fisheries, Mangalore, India develop a research project on the study of impacts of fishery regulations on local economies. The project has been funded by the Indian Council of Agricultural Research, New Delhi for three years.

Member, Expert Panel of the South Florida Water Management District for reviewing research proposals and programs, 1995-97.

Participated at the workshop on Curriculum Development in Quantitative Sciences for Life Science Students, Knoxville, TN, February 1992.

Media Program

Addressed a press conference held by the Florida Environment on the occasion of the release of the report, "Global Climate Change Solutions," by the American Environment Research and Policy Center at Miami Museum of Science, June 2008.

Addressed a press conference on the environmental impacts of commercial aquaculture on coastal ecosystem in Karnataka, July 1997. I was featured in several major news papers in Karnataka state, India.

Non-academic

Trustee, Shiva Vishnu Temple of South Florida; administer children and adult education programs at the temple, 2005 to present.

Conducted monthly educational tours of the Hindu Temple for FIU, MDC, BCC and the area high school students.

On the Board of Directors, Nandi Kannada Koota of South Florida, a cultural organization; choreograph children's cultural and artistic programs; organize fun and social activities for member families.

(Revised on December, 2016)