

*Curriculum Vitae*  
**MAHADEV G. BHAT**

Professor  
Co-Director, Agroecology Program  
Earth and Environment Department & Economics Department  
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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 **Faculty Award for Excellence in Research**, 2020
- **Fulbright Specialist** in Natural Resource Economics, 2020 – 2023
- US Society for Ecological Economics **Bernardo Aguilar Award**, 2019
- North America Peace Run **Torch Bearer Award** for contribution to Agroecology, 2018
- FIU CASE MS Env Policy & Manage. Program **Faculty of the Year**, 2018
- FIU CASE PSM-EPM Program **Best Course Award**, 2016, 2019 & 2020
- FIU School of Intl & Public Affairs **Best Course Award**, 2018
- FIU CASE **Award for Research**, 2017
- 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 **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 \$10 million ([www.agroecology.fiu.edu](http://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

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**RESEARCH & GRANT ACTIVITIES**

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**GRANT PROJECTS:**

Total grants: ≈ \$16 million

Agency	Research Project	Participation	Amount
USDA- OPPE	Veterans, Youth, and Special Needs Farmers Training Program (VYSNAP), October 2020-September 2023	PI	\$400,000
USDA- NRCS CIG	Evaluation of High Tunnel Systems on Dragon Fruit Production in South Florida, January 2022 – December 2023	Co-PI	\$75,616

USDA-NIFA MSP 6	Education/Teaching; Combined MSP and SEL: To provide scholarships to eligible multicultural scholars pursuing baccalaureate degree, August 2021 – July 2025	Co-PI	\$200,000
USDA NIFA HSI	Broadening Agricultural Sciences Education (BASE II) for Hispanic Students Through Florida-Texas-New Mexico Consortium, Aug 2021 – July 2025	Co-PI	975,000
Texas A&M	GO START NOW: "Getting Occupational Student Training in Agricultural Research Through NOvel Workshops, August 2021 – July 2025 (sub-award)	Co-PI	\$250,000
USDA Speciality Crops	Nitrogen Management and Plant Quality Monitoring Using Optical Sensor Technology in Native, August 2020 – July 2023	Co-PI	82,677
NSF	LTER: Coastal Oligotrophic Ecosystem Research, August 2020 – July 2024	Key personnel	1,187,700
USDA NNF	Urban Sustainable Agriculture Education for Doctoral (USA-ED) Fellows at Florida International University, January 2021 – December 2024	Co-PI	238,500
Miami Foundation	Alternative valuation methodology assessment for equity and environmental outcomes in resilience project benefit-cost analyses, August 2020 to December 2021	Co-PI	18,000
Green Point Research	FIU Industrial Hemp Pilot Project: Variety Selection, Cropping System Development, June 2020 – May 2022	Co-PI	\$75,,000
Walmart Foundation	Social and Environmental Effects of Produce Supply Chains: Assessment and Intervention Strategies for a Resilient Future, October 2018-March 2021	PI	\$437,291
USDA-OPPE	Empowering Small Under-represented Farmers: Urban Sustainable Agriculture (eSURF-USA), October 2018-March 2021	PI	\$183,000
USDA-OAO	Veterans and Small Farmers Outreach Program for South Florida, October 2017-April 2019	PI	\$178,000
USDA-NIFA	A Foundation for New Farmers in South Florida, August 2017-July 2020	Co-PI	\$300,000
USDA-FAS	2017 Cochran Fellowship Program: Marketing of Agricultural Produce (Fruit and Vegetables) – Moldova, January 2017 – December 2017.	PI	\$63,119
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 2020.	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-Dec 2018 (Total grant: \$5 million; FIU Portion \$1.5 million; my portion: \$187,000; PI: Mike Sukop)	Co-PI	\$1,500,000
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; represents FIU portion of total grant of \$5 Million).	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. (My portion of the grant \$200,000)	Co-Investigator	\$3,750,000
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* NSF	Alternative Fishery Regulations and their Socio-economic Impacts in Karnataka, India, August 1997- July 2000 (Indian Rs. 550,000) Planning Visit to India for a Research on Multi-tier Conflict Resolution in the Case of Biodiversity Patenting-Summer 1997	Co-PI PI	15,715 \$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 at a professional meeting, Fall 1991.		\$350

\*Funded through College of Fisheries, Mangalore, India.

## PUBLICATIONS:

\*Publications with students.

### Refereed Article:

Chabba, M., \* **M. G. Bhat**, and Sarmiento, J. "Considerations of cobenefits, equity, and uncertainty in decisions supporting ecosystem-based disaster risk reduction." *Ecological Economics*, 2021 (under review).

Thiesen, T. \*, **Bhat, M. G.**, Liu, H., and Rovira, R. "An Ecosystem Service Approach to Assessing Alternative Agro-Ecosystems in Urban Landscapes." *Ecological Indicators*, 2021 (under review).

Bayissa, Y., Melesse, A., **Bhat, M.G.**, Tadesse, T., and Shiferaw, A. "Evaluation of Regional Climate Model (RCM) Simulations of Daily Precipitation and Temperature-Based Climate Indices: A case study of Florida, USA." *Water*, 2021, 13, 2411. <https://doi.org/10.3390/w13172411>.

Freidenreich, A. \*, **M. G. Bhat**, and K. Jayachandran. "Adoption and Perception of Cover Crop Implementation for Tropical Fruit Growers." *Journal of Soil and Water Conservation*, 2021 (in print).

Charles N.A. \*, **Bhat M.G.**, Bhatta R, Hegde KM, Hegde GV. "Multi-Criteria Hydro-Economic Decision Tool for Rejuvenating Community Irrigation Tanks in Rural India." *Water*. 2021; 13(11):1594. <https://doi.org/10.3390/w13111594>

Chanda, S., **Bhat, M.G.**, Shetty, K.G., Jayachandran, K. "Technology, Policy, and Market Adaptation Mechanisms for Sustainable Fresh Produce Industry: The Case of Tomato Production in Florida, USA." *Sustainability* 2021, 13, 5933. <https://doi.org/10.3390/su13115933>

Brown, C., \* **M. G. Bhat**, and J. S. Rehage. “Valuing Ecosystem Services under Climate Risk: A Case of Recreation in the Florida Everglades.” *Journal of Water Resources Planning and Management*, 2020, 146(12): 04020089. DOI: 10.1061/(ASCE)WR.1943- 5452.0001290.

Cavasos, K. \* and **M. G. Bhat**. “Impact of risk perception on household willingness-to-pay to restock the threatened staghorn coral.” *Ocean and Coastal Management*, vol 193 (August) 2020. doi.org/10.1016/j.ocecoaman.2020.105244

Seeteram, N.,\* **M. G. Bhat**, B. Pierce, K. Cavasos,\* and D. Die. “Reconciling economic reality and stakeholder perception: A management challenge in Florida Gulf Coast fisheries.” *Marine Policy*, Volume 108, October 2019, 103628, <https://doi.org/10.1016/j.marpol.2019.103628>.

Dessu, S. B.,\* A. Melesse, **M. G. Bhat**, S. A. Debebe, A. H. Seid, K. M. Strzepek, R. M. Price, M. E. McClain. “Development and Application of Priority Rated Optimization Model (PROM) for Multi-Sector Water Resource Management System.” *Ecosystem Modeling and Software*, 113 (March) 2019, p. 84-97. <https://doi.org/10.1016/j.envsoft.2018.11.014>.

Volta, C, D. T. Ho, G. Friederich, V.C. Engel, **M. G. Bhat**. “Influence of water management and natural variability on dissolved inorganic carbon dynamics in a mangrove-dominated estuary.” *Science of the Total Environment*, Volume 635, September 2018, Pages 479-486. (doi.org/10.1016/j.scitotenv.2018.04.088)

Brown, C.,\* **M. G. Bhat**, J. S. Rehage, A. Mirchi, R. Boucek, V. Engel, P. Mozumder, D. Watkins, J. S. Ault, M. Sukop. “Ecological-Economic Assessment of the Effects of Freshwater Flow in the Florida Everglades on Recreational Fisheries.” *Sciences of the Total Environment*, 627 (15), 2018, pp. 480–493.

Mirchi, A., D. W. Watkins, V. Engel, M. C. Sukop, J. Czajkowski, **M. G. Bhat**, J. Rehage, D. Letson, Y. Takatsuka. “A Hydro-economic Model of South Florida Water Resources System.” *Sciences of the Total Environment*, 628–629, 2018, pp. 1531-1541.

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*, 42:3, 2018, pp. 299-327, DOI: 10.1080/21683565.2017.1359737

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*, 196 (1), July 2017, pp 544–559. DOI: 10.1016/j.jenvman.2017.03.061

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 *21<sup>st</sup> 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, Online Publications and Theses***

Chanda, S., Y. Bayissa, M.G. Bhat, S. K. Shetty, C. Parra, R. Mesia, A. Melesse, K. Jayachandran, and S. Alvarez-Ventura. “Florida Tomato and Strawberry Supply Chain: Strategies for a Resilient Future.” Final Technical Report, Submitted to Walmart Foundation, Institute of Environment, Agroecology Program, August 2020.

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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):***

Brown, C.\* , and M. G. Bhat. "A Game-Theoretic Model of Crop Flood Indemnity in South Florida." Presented at the Annual Conference of American Agricultural Economics Association, Washington, DC., August 2018.

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. Innovative Curriculum for Agriculture Training and Career for Hispanics. Oral (Virtual) Presentation at the USDA HSI National Project Directors Meeting, March 2021.

Bhat, M.G., K. Jayachandran, K. Shetty, A. Khoddamzadeh, and Betancourt, E. Innovative Curriculum for Agriculture Training and Career for Hispanics. Oral Presentation at the USDA HSI National Project Directors Meeting, Washington, DC., March 2018.

Betancourt, E., M. G. Bhat, K. Jayachandran, K. Shetty and A. Khoddamzadeh. Innovative Curriculum for Agriculture Training and Career for Hispanics. Poster Presented at the USDA HSI National Project Directors Meeting, Albuquerque, New Mexico, February 2017.

Bhat, M.G. "Veterans and Small Farmers Outreach Program at FIU." An informal Presentation at the USDA Office of Advocacy and Outreach 2501 Program's National Project Directors Meeting, Cleveland, OH, August 2016 (accompanied two project participant-farmers from FIU).

Krish Jayachandran, Mahadev Bhat, and Kateel Shetty. 2016. Experiential and Experimental Learning Approaches in Agriculture Sciences at Florida International University. Poster presentation at NACTA Annual Conference, June, 21-24, Honolulu, Hawaii.

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, Bhuvanesar, 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, Bhuvanesar, 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 Future of Fresh Produce: Co-creating a Sustainable Supply -Chain in Florida." A Virtual Joint Symposium in collaboratin with Stronger Together, Florida International University, Miami, Florida, December, 2020.

"Tomato and Strawberry Industry in Florida: Where are We Heading?." A Webinar Panel Discussion, Florida International University, Miami, Florida, June, 2020.

“Fresh Produce Certification and Sustainability.” A Webinar Panel Discussion, Florida International University, Miami, Florida, March, 2020.

“Sustainable Food Systems.” Panel Discussion (with Samina Raja of University of Buffalo), Bates Memorial Lecture, Washington and Lee University, Lexington, VA, October 2019.

“Panel on Florida Water Pollution Problems.” Florida Sunshine Scholars Conference, Orlando, Florida, May 2018.

“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 1<sup>st</sup> 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. “Economic Impacts of Climate Change in Florida.” *Science Insider*, The Everglades Foundation, October 2020, p. 25-27. Available at: [https://issuu.com/evergladesfoundation/docs/everglades\\_foundation\\_science\\_insider\\_-2020](https://issuu.com/evergladesfoundation/docs/everglades_foundation_science_insider_-2020)

Bhat, M.G. “Limiting food waste is our social responsibility during pandemic.” Commentary. *Orlando Sentinel*. March 27, 2020.

Bhat, M.G. “A carbon tax to reduce emissions of greenhouse gases is gaining support among citizens, business leaders and policy makers.” An Opinion-Editorial article published in the *The Invading Sea: Can South Florida be Saved?*, A Media Newsletter and collaboration between South Florida Newspapers and WLRN. October 11, 2018. Available: <https://www.theinvadingsea.com/2018/10/11/a-carbon-tax-to-reduce-emissions-of-greenhouse-gases-is-gaining-support-among-citizens-business-leaders-and-policy-makers/>.

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:***

"Valuing recreational fishing ecosystem services of the Everglades." Presented to the Biscayne Bay Regional Restoration Coordination Team, Key Biscayne, Miami, FL, April 17, 2019 (with C. Brown).

Inaugural address at the formation of Malenadu Krishi Trust, Totagrs Cooperative Society, Sirsi, Karnataka, India, March 2019.

"On Organization of Agricultural Cooperatives for Research, Development and Farmers' Outreach." Presented to a group of large agricultural cooperatives of Coastal and Malnad regions of Karnataka at Sirsi, Karnataka, India (in collaboration with Havyaka Association of America), January 2018.

"On Higher Education System in USA and Research on Climate Change" A University-wide Guest Lecture presented at Rani Chennamma University, Belgaum, India, September 2017.

"US Fruits and Vegetable Supply Chain Management: An Overview." At the Two-Week Workshop on Agricultural Produce (Fruit and Vegetables) – Moldova held at FIU for an eight-member delegation from Moldova under USDA Foreign Agriculture Service's Cochran Fellows Program, in Miami, March 12 to 25, 2017.

"The Mangroves: More Valuable than They Look." Biscayne Bay Restoration Coordination Team, Key Biscayne, Florida, March 2017 (with M. Jareth).

"FIU Agroecology Program: Innovative Curriculum for Student Academic and Career Success." Poster presented at the Inaugural Faculty Innovations for Student Success Showcase, Sponsored by FIU Faculty Senate and Office of the Provost, March 2017. (with K. Jayachandran, K. Shetty, A. Khoddamzadeh and Eric Betancourt).

"Local food system charrette." Conducted at the 1<sup>st</sup> International Workshop on Agroecology and Sustainable Agriculture, Miami, May 2016.

"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.” 1<sup>st</sup> International Workshop on Agroecology and Sustainable Agriculture, Miami, May 2015.

“Local food system charrette.” Conducted at the 1<sup>st</sup> 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.

“Environmental and Agricultural Sciences Graduate Research Opportunities: The Next Bridge for Success.” Keynote Speech, *Sowing the Seeds for Success*, Agro-ecology Symposium. San German, Puerto Rico, May 6-10, 2013.

“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:***

Bhat, M.G. and A. Freidenreich, "Applying Agroecological Principles to Urban Food Production." Workshop Organized and Presented at Ecological Society of America and US Society for Ecological Economics Meeting, Louisville, KY, August 2019.

Two-Week Workshop on Agricultural Produce (Fruit and Vegetables) – Moldova held at FIU for an eight-member delegation from Moldova under USDA Foreign Agriculture Service's Cochran Fellows Program, in Miami, March 12 to 25, 2017.

"Urban Agriculture: Building Towards a More Sustainable Future." Annual Agroecology Symposium at Florida International University, Miami, April 2017.

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 International 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 21<sup>st</sup> 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 HighSchool 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 HighSchool 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 HighSchool 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.

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## TEACHING ACTIVITIES

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**COURSES TAUGHT & PLANNED**

- Introduction to Environmental Economics – over 40 times
- Natural Resource Economics\* -- 5 times
- Environmental Sciences -- 2 times
- Farm Economics and Management – 3 times
- Methods in Sustainable Resource Management\* -- 8 times (graduate)
- Sustainable Resource Development\* -- over 9 times (now an online class)
- Intn’l Issues in Food Nutrition, Public Health and Economic Development\* -- 20 times
- Environmental Seminar (undergraduate) -- 1 time
- Environmental Seminar (graduate) -- 18 times
- Environmental Resource Policy\* -- over 25 times (graduate)
- Advanced Environmental Economics\* -- over 7 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 40 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 Jerath
Amour Selesman	Miles Medina	Nicole Pasi
Christophyer Estevez	Diana Alexis	Thais Beckman

Ana Fache  
Jessica Rodriguez\*

Nicholas Charles

Chloe Vorseth

\*Current

**As Major Advisor of Doctoral Students**

Kihore Dhavala, Ph.D. in Economics (Faculty at Nalanda University)

Yu Chen, Ph.D. in Economics (Business Analyst at Polen Capital)

George Atisa, Ph.D. in Public Administration (Faculty at Univ of Texas River Grande Valley)

Christina Brown, Ph.D. in Earth System Sciences (Post-doc Research Associate, UCF)

Kevin Cavazos, Ph.D. in Earth System Sciences

Meenakshi Jerath, Ph.D. in Earth System Sciences\*

Anna Fache, Ph.D. in Earth System Sciences\*

Chloe Vorseth, Ph.D. in Earth System Sciences\*

Brandon Sosa, Ph.D. in Earth System Sciences\*

Rigoberto Olivera, Ph.D. in Earth System Sciences (co-major adviser)\*

\*Current

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**SERVICE ACTIVITIES**

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**UNIVERSITY: Earth and Environment Department:**

Chair, Environmental Studies Certificate, 2019 to present. Application review, student advising, certification review and reporting.

Chair, Agroecology Certificate, 2005 to 2019. Application review, student advising, certification review and reporting.

Developed Agroecology Certificate and B.S. (Environmental Studies: Agri-Science Major) curricula.

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.

Conducted 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, student 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, 2018-19, 2019-20 (Chair).

### **University Committees & Programs**

Member, FIU Univ Grad School, Dissertation Advisory Status Review Committee, 2019-21

Member, FIU CASE, K-14 Education/Outreach Working Group, 2018

Member, FIU-India Mission Abroad, 2017-18

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.

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: Board of Directors**

US Society for Ecological Economics, 2018-19

**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 Agroecology and Sustainable Food Systems*

Journal articles:

*Journal of Environmental Economics and Management*  
*Journal of Agroecology and Sustainable Food Systems*  
*Ecology, Economy and Society*  
*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*  
*Environment, Development and Sustainability*

Granting agencies:

National Science Foundation  
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.

Conference scientific committees: Indian Society for Ecological Economics, 2017;  
US Society for Ecological Economics, 2019

**Subject Matter Expert/Foreign Consultant:**

Expert advisor for a 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**

Trustee, Malenadu Agriculture Trust, 2018 to present: Organized several workshops in India on water conservation (2016) and ecosystem service valuation (2017); organized several meetings of agricultural cooperatives (2017-2018) to form this trust and to promote research and development in the Malenadu agricultural belt of Karnataka.

Member, Miami Dade County Extension Tropical Fruit Advisory Committee, 2018.

Member, Governing Council for the Center for Earth Juris Prodence, 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 Interviews and Research Work Featured**

Front Page article on the value of the Everglades carbon in *Miami Herald*, November 25, 2016, <http://www.miamiherald.com/news/local/environment/article117015083.html>

On economic value of carbon in *Discovery*, NSF News November 14, 2016, [https://www.nsf.gov/discoveries/disc\\_summ.jsp?cntn\\_id=190254&org=NSF&from=news](https://www.nsf.gov/discoveries/disc_summ.jsp?cntn_id=190254&org=NSF&from=news)

On Everglades carbon in *FIU News*, October 20, 2016, <http://news.fiu.edu/2016/10/everglades-mangroves-worth-billions-in-fight-against-climate-change/105247>

On "Climate change: Florida faces rising sea levels." Interviewed by **France24 TV channel** for the above program telecast in January 2017. Available at <http://www.france24.com/en/20170127-focus-usa-everglades-florida-miami-global-warming-climate-change-rising-sea-freshwater>

Interviewed by, and featured in, *Latina Magazine* on Food and Economic Crisis in Venezuela. Available at: <http://thelatinkitchen.com/people/a/venezuela-having-corn-crisis-chef-miguel-aguilar-explains-why-exclusive-sobewff-interview>

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**

President (2019-20), Vice President (2017-18) & Trustee (2005 – present), Shiva Vishnu Temple of South Florida.

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

President (2014-15), and Director (2006-2011), 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 in September 2021)*