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Associate Professor

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DEGREES

B.A.	May 1982	Economics	Columbia University
M.S.	Dec. 1988	Agricultural & Resource Economics	University of California, Berkeley
Ph.D.	Dec. 1990	Agricultural & Resource Economics	University of California, Berkeley

PROFESSIONAL RECOGNITION, FELLOWSHIPS, & AWARDS

Best Investigative Research Award, Asociación Argentina de Economía Agraria, 2004
Editorial Board Member, *Agricultural and Resource Economics Review* (1998 - 2000)
TOKTEN Fellowship, United Nations Development Program (1998, 2001)
Selected to Government of Pakistan's *National Talent Pool*, 1998
Major Advisor to Recipient of *Outstanding Master Thesis Award* from *Northeastern Agricultural and Resource Economics Association*, 1995
Selected for Membership in *Gamma Sigma Delta*, *The Honor Society of Agriculture*, 1993; Elected Secretary (1994 - 1995), Vice-President (1995 - 1996), and President (1996 - 1997) of the Connecticut Chapter of *Gamma Sigma Delta*
Junior Faculty Summer Fellowship, University of Connecticut Research Foundation, 1992
Outstanding Graduate Student Instructor Award, University of California, Berkeley, 1988

DOCTORAL DISSERTATION

Shah, F. *Technological Change, Economic Growth, and Exhaustible Resources*, Department of Agricultural & Resource Economics, University of California, Berkeley, 1990.

SELECTED PUBLICATIONS

Books (available in pdf form at <http://www.are.uconn.edu/SustDams.htm>)

Palmieri, A., F. Shah, G. Annandale, and A. Dinar *Reservoir Conservation Volume I: The RESCON Approach*, Washington, D.C.: World Bank, 2003.
Kawashima, S., T. Johndrow, G. Annandale, and F. Shah *Reservoir Conservation Volume II: The RESCON Model & User Manual*, Washington, D.C.: World Bank, 2003.

Chapters in Books and Conference Proceedings

Annandale, G., A. Palmieri, and F. Shah “A Balanced Approach to Managing Reservoirs on Rivers”, *Proceedings of the 24nd Annual Meeting and Conference of the US Society on Dams*, 2004, pp. 181-191.

Annandale, G., A. Palmieri, and F. Shah “Sustainable Management of Large Hydro Projects: the RESCON Approach” *Proceedings of the 9th International Symposium on River Sedimentation*, Vol. 2, 2004, pp. 849-855.

Annandale, G., A. Palmieri, F. Shah, and A. Dinar “Strategic Alternatives for the Sustainable Management of Reservoirs”, *Proceedings of the 22nd Annual Meeting and Conference of the US Society on Dams*, 2002, pp. 479 - 484.

Zilberman, D., U. Chakravorty, and F. Shah “Efficient Management of Water in Agriculture” in D. Parker and Y. Tsur (Eds.) *Decentralization and Coordination of Water Resources Management*, Boston: Kluwer Academic Publishers, 1997.

Shah, F. and D. Zilberman “The Political Economy of the Transition from Water Rights to Water Markets” in A. Dinar and E. Loehman (Eds.) *Water Quantity/Quality Management and Conflict Resolution: Institutions, Processes, and Economic Analysis*, Westport: Praeger, 1995.

Shah, F., D. Zilberman, and U. Chakravorty “Water Rights Doctrines and Technological Adoption” in K. Hoff, A. Braverman, and J. Stiglitz (Eds.) *The Economics of Rural Organization*, Oxford: Oxford University Press, 1993.

Shah, F. and D. Zilberman “Government Policies to Improve Intertemporal Allocation of Water in Regions with Drainage Problems” in A. Dinar and D. Zilberman (Eds.) *The Economics and Management of Water and Drainage in Agriculture*, Boston: Kluwer Academic Publishers, 1991.

Journal Articles

Nadeau, J., F. Shah, A. Chaudhry, and J. Maripani “Enumeration & Valuation of Horses: Methodological Innovations and Results from a Connecticut Study”, *Journal of Extension*, forthcoming, 2006.

de Prada, J., B. Bravo-Ureta and F. Shah “El costo de la erosión de suelo para los productores agropecuarios en el sur de Córdoba, Argentina” *Revista Argentina de Economía Agraria*, Vol. 8, 2005, pp. 4-21.

Palmieri, A., F. Shah, and A. Dinar “Economics of Reservoir Sedimentation and Sustainable Management of Dams”, *Journal of Environmental Management*, Vol. 61, 2001, pp. 148 - 163.

Heninger, B. and F. Shah, “Control of Stationary and Mobile Source Air Pollution: Reducing Emissions of Hydrocarbons for Ozone Abatement in Connecticut”, *Land Economics*, Vol. 74, 1998, pp. 497 - 513.

Shah, F., D. Zilberman, and U. Chakravorty “Technology Adoption in the Presence of an Exhaustible Resource: The Case of Groundwater Extraction” *American Journal of Agricultural Economics*, Vol. 77, 1995, pp. 291 - 299.

Shah, F., D. Zilberman, and E. Lichtenberg. “Optimal Combination of Pollution Prevention and Abatement Policies: The Case of Agricultural Drainage”, *Environmental and Resource Economics*, Vol. 5, 1995, pp. 29 - 49.

Lopez, R., M. Altobello, and F. Shah “Amenity Benefits and Public Policy: An Application to the Connecticut Dairy Sector”, *Journal of Agricultural and Applied Economics*, Vol. 26, 1994, pp. 485 - 496.

Lopez, R., F. Shah, and M. Altobello “Amenity Benefits and the Optimal Allocation of Land”, *Land Economics*, Vol. 70, 1994, pp. 53 - 62.

Zilberman, D., N. MacDougall, and F. Shah “Changes in Water Allocation Mechanisms for California Agriculture”, *Contemporary Economic Policy*, Vol. 12, 1994, pp. 122 - 133.

Zilberman, D., A. Schmitz, A. Dinar, and F. Shah “A Water Scarcity or a Water Management Crisis?”, *Canadian Journal of Water Resources*, Vol. 18, 1993, pp. 159 - 171.

Shah, F. “A Note on the Optimal Depletion of Exhaustible Resources”, *Review of Economic Studies*, Vol. 51, 1984, p. 351.

Reports and Bulletins

Nadeau, J. and F. Shah, *Horses in Connecticut: Size and Value of the Industry*, University of Connecticut, 2006.

Nadeau, J., F. Shah, A. Chaudhry, and J. Maripani *Connecticut’s Horse Industry: A Demographic and Economic Analysis*, University of Connecticut, 2006.

COMPUTER SOFTWARE ((available at <http://www.ave.uconn.edu/SustDams.htm>)

Kawashima, S., T. Johndrow, G. Annandale and F. Shah *The Reservoir Conservation (RESCON) Computer Program*, World Bank, 2003.

SELECTED CONFERENCE PAPER PRESENTATIONS

Nadeau, J., F. Shah, A. Chaudhry, and J. Maripani “Methodology of Connecticut’s Horse Industry Survey: Results and Implications for Future Studies” *American Society of Animal Science Annual Meeting*, 2006.

DePrada, J., B. Bravo-Ureta, and F. Shah “Cost of On-Site Soil Erosion: A Case Study from Córdoba, Argentina”, *Asociación Argentina de Economía Agraria Annual Meetings*, 2004.

Annandale, G., A. Palmieri, and F. Shah “A Balanced Approach to Managing Reservoirs on Rivers”, *24th Annual Meeting and Conference of the US Society on Dams*, 2004.

Annandale, G., A. Palmieri, and F. Shah “Sustainable Management of Large Hydro Projects: the RESCON Approach” *9th International Symposium on River Sedimentation*, 2004.

Chaudhry, A. J. Nadeau, F. Shah, T. C. Lee, and E. Pagoulatos “Valuation and Economic Impact of Connecticut’s Horse Industry”, *Northeastern Agricultural and Resource Economics Association Annual Meetings*, 2003. Abstract published in *Agricultural and Resource Economics Review*, Vol. 32, 2003, p. 298.

De Prada, J., B. Bravo-Ureta and F. Shah “Agricultural Productivity and Sustainability: Evidence from Low Input Farming in Argentina”, *American Agricultural Economics Association Annual Meetings*, 2003.

De Prada, J., F. Shah and B. Bravo-Ureta “Economics of Soil Erosion and Wetlands Protection: A Case Study from Cordoba, Argentina”, *Asociación Argentina de Economía Agraria Annual Meetings*, 2003.

De Prada, J., F. Shah and B. Bravo-Ureta “Economics of Agriculture and Preservation of Wetlands”, *Northeastern Agricultural and Resource Economics Association Annual Meetings*, 2003. Abstract published in *Agricultural and Resource Economics Review*, Vol. 32, 2003, p. 295.

Pattanapanchai, M. and F. Shah “Reservoir Sedimentation and Soil Conservation Under Uncertainty”, *Northeastern Agricultural and Resource Economics Association Annual Meetings*, 2003. Abstract published in *Agricultural and Resource Economics Review*, Vol. 32, 2003, p. 299.

Annandale, G., A. Palmieri, F. Shah, and A. Dinar “Strategic Alternatives for the Sustainable Management of Reservoirs”, *22nd Annual Meeting and Conference of the US Society on Dams*, 2002.

Chaudhry, A. and F. Shah “Surface Water Allocation Under Increasing Scarcity and Uncertainty”, *Northeastern Agricultural and Resource Economics Association Annual Meetings*, 2002. Abstract published in *Agricultural and Resource Economics Review*, Vol. 31, 2002, p. 263.

Chaudhry, A. and F. Shah “Conjunctive Use of Surface and Groundwater Resources Under Alternative Institutional Mechanisms”, *South and Southeast Asia Meeting of the Econometric Society*, 2002.

Kapadia, M., F. Shah, and G. Warner “Sedimentation of Reservoirs: Prevention vs. Cleanup”, *American Agricultural Economics Association Annual Meetings*, 2002.

Kawashima, K. and F. Shah “Economic Analysis of Sedimentation Management in a System of Cascading Dams”, *Northeastern Agricultural and Resource Economics Association Annual Meetings*, 2002. Abstract published in *Agricultural and Resource Economics Review*, Vol. 31, 2002, p. 263.

Pattanapanchai, M., F. Shah, and G. Annandale “Sediment Management in Flood Control Dams”, *American Agricultural Economics Association Annual Meetings*, 2002.

Goode, T., S. Broderick, F. Shah and T. C. Lee “Economic Analysis of the Role of Connecticut’s Cooperative Forest Management Program” *Soil and Water Conservation Society Meetings*, 2001.

Goode, T., S. Broderick, F. Shah and T. C. Lee “A Benefit-Cost Analysis of the Cooperative Forest Management Program in Connecticut” *Northeastern Agricultural and Resource Economics Association Annual Meetings*, 2001. Abstract published in *Agricultural and Resource Economics Review*, Vol. 30, 2001, p. 220.

McNaughton, D. and F. Shah “Environmental Consequences of Economic Development”, *American Agricultural Economics Association Annual Meetings*, 2000.

Fishman, K., R. Leonard, and F. Shah “Valuing Water Quality Changes at Connecticut Lakes with Contingent Price Data”, *American Agricultural Economics Association Annual Meetings*, 1999.

Dhar, T. and F. Shah “Policies for Managing the Impact of Deforestation in Nepal: A Two-Sector Analysis”, *Second International Conference of the European Society for Ecological Economics*, 1998.

Palmieri, A., F. Shah. and A. Dinar “Reservoir Sedimentation and the Sustainable Management of Dams”, *First World Congress of Environmental and Resource Economists*, 1998.

Fishman, K., R. Leonard, and F. Shah “Using Property Owner Surveys to Value Water Quality Changes in Suburban Lakes”, *Northeast Agricultural and Resource Economics Association Annual Meetings*, 1997. Abstract published in *Agricultural and Resource Economics Review*, Vol. 26, 1997, p. 262.

Altobello, M., R. Lopez, and F. Shah “Amenity Benefits of Open Space Preservation”, *American Association for the Advancement of Science Annual Meetings*, 1996.

Heninger, B. and F. Shah “Economics of Ground-level Ozone Control in Connecticut”, *Northeastern Agricultural and Resource Economics Association Annual Meetings*, 1995. Abstract published in *Agricultural and Resource Economics Review*, Vol. 24, 1995, p. 261.

Heninger, B. and F. Shah “The Economics of Air Pollution Control: Tradeoffs Between Stationary and Mobile Sources”, *American Agricultural Economics Association Annual Meetings*, 1995. Abstract published in the *American Journal of Agricultural Economics*, Vol. 77, 1995, pp. 1362 - 63.

Altobello, M., R. Lopez, and F. Shah “Amenity Benefits and Government Intervention: An Application to the Connecticut Dairy Sector”, *Northeastern Agricultural and Resource Economics Association Annual Meetings*, 1993. Abstract published in *Agricultural and Resource Economics Review*, Vol. 22, 1993, p. 229.

Shah, F. and D. Zilberman “Queuing Vs. Markets: The Case of Surface Water Allocation”, *American Agricultural Economics Association Annual Meetings*, 1993. Abstract published in *American Journal of Agricultural Economics*, Vol. 75, 1993, p. 1303.

Shah, F. and D. Zilberman “The Political Economy of the Transition to Water Markets”, *A Conference on Water Quantity/Water Quality Disputes and Their Resolution*, Washington, D.C., 1992.

Zilberman, D., U. Chakravorty, and F. Shah “Efficient Management of Water in Agriculture”, *A Conference on Natural Resources and Environmental Management in an Interdependent World*, San José, Costa Rica, 1992.

Zilberman, D., N. MacDougall, and F. Shah “Changes in Water Allocation Mechanisms for California Agriculture”, *Western Economic Association Annual Meetings*, 1992.

Shah, F. and D. Zilberman “Environmental Degradation and Technological Change”, *American Agricultural Economics Association Annual Meetings*, 1991. Abstract published in *American Journal of Agricultural Economics*, Vol. 73, 1991, p. 1550.

Shah, F., D. Zilberman, and U. Chakravorty “Exhaustible Resources, Technological Adoption, and Farm Heterogeneity”, *Northeastern Agricultural and Resource Economics Association Annual Meetings*, 1991. Abstract published in *Northeastern Journal of Agricultural and Resource Economics*, Vol. 20, 1991, p. 216.

SELECTED INVITED SEMINARS AND PRESENTATIONS

Shah, F. “Sustainable Management of Water Resources and the Economics of Dams”, seminar presented at the GC University, Lahore, Pakistan, December 06, 2005.

Nadeau, J. and F. Shah “Connecticut Horse Survey: Preliminary Results & Analysis”, presented to the *Connecticut Horse Council*, June 1, 2004.

Nadeau, J. and F. Shah “Size and Characteristics of Connecticut’s Horse Industry”, *University of Connecticut Horse Symposium*, March 28, 2004.

Shah, F. “Global Warming”, seminar presented at the 3rd *Annual Connecticut Environment Action Day (CEAD)*, University of Connecticut, October 24, 2003.

Shah, F. “Sustainable Management of Dams”, seminar presented at the *Lahore University of Management Sciences*, Pakistan, July 03, 2001.

Palmieri, A., F. Shah, and A. Dinar “Sustainability vs. Nonsustainability: An Economic Evaluation of Alternative Strategies for Management of Dams and Reservoirs”, seminar presented at the *World Bank* in Washington, D.C., on January 7, 1998.

Shah, F. "Pricing Strategies for Managing Water Scarcity", seminar presented at *Leadership for Environment and Development (LEAD), International*, Islamabad, Pakistan, July 7, 1997.

Shah, F. "Government Policies to Alleviate Environmental Degradation: The Case of Waterlogging in Agriculture", seminar presented at *Environmental Scholars Colloquium* (sponsored by the Al Geib Distinguished Lecture Series), University of Connecticut, March 28, 1997.

Shah, F. "Inducing Resource Conserving and Productivity Enhancing Technological Change: A Framework for Irrigated Agriculture in Pakistan", seminar presented at the *Lahore University of Management Sciences*, Pakistan, June 26, 1996.

RESEARCH GRANTS

U.S. Department of Agriculture "Economic Evaluation of Environmental and Natural Resource Use and Policies" (Co-PI with M. Altobello; October 1, 2005 - September 30, 2008)

U.S. Department of Agriculture Cooperative State Research Service Hatch Project "Benefits and Costs of Natural Resource Use and Implications for Policy" (Co-PI with M. Altobello; October 1, 2002 - September 30, 2005).

University of Connecticut Research Foundation "Economic Impact of Soil Conservation on Reservoir Sedimentation" (July 1, 2002 - June 30, 2003).

U.S. Department of Agriculture "Nature and Economic Impact of Connecticut's Equine Industry" (June 1, 2002 - August 31, 2003).

World Bank "Economic and Engineering Evaluation of Alternative Strategies for Managing Sedimentation in Storage Reservoirs" (Co-PI with A. Palmieri and A. Dinar; September 1, 1999 - September 30, 2002).

U.S. Forest Service "Program Impact Evaluation - Connecticut's Cooperative Forest Management Program" (Co-PI with S. Broderick and T.C. Lee; February 1, 1999 - June 30, 2000).

University of Connecticut Research Foundation "Urban Air Quality, Transportation Policies, and Income Distribution in Developing Countries: The Case of South Asia" (October 1, 1997 - September 30, 1998).

U.S. Department of Agriculture Cooperative State Research Service Regional Project "Benefits and Costs Transfer in Natural Resource Planning" (Co-PI with M. Altobello; October 1, 1996 - September 30, 2002).

Connecticut Department of Environmental Protection "Economic Valuation of Selected Lakes in Connecticut" (Co-PI with C. Lee; September 1, 1994 - October 1, 1997).

University of Connecticut Research Foundation "The Economics of Air Pollution Control in Highly Urbanized Areas: The Case of Ground-Level Ozone" (July 1, 1994 - June 30, 1995).

U.S. Department of Agriculture Cooperative State Research Service Hatch Project "Government Policies for Regulating the Use of Water and Land Resources" (January 1, 1993 - September 30, 1996).

University of Connecticut Research Foundation "The Economics of Surface Water Allocation in Agriculture" (June 1, 1992 - August 31, 1992).