

# Pengfei Liu

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## CONTACT INFORMATION

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## RESEARCH INTERESTS

Environmental and Resource Economics, Lab and Field Experiment, Industrial Organization, Behavioral Economics

## EMPLOYMENT

2016-Present, Assistant Research Professor, Department of Agricultural and Resource Economics, University of Connecticut

2016-Present, Assistant Research Professor (Joint Appointment), Center for Environmental Sciences and Engineering, University of Connecticut

2015, Lecturer, Avery Point Campus, University of Connecticut

## EDUCATION

PhD, Environmental and Resource Economics, 2016  
Department of Agricultural and Resource Economics, University of Connecticut, CT  
Committee Members: Stephen Swallow (Major Advisor), Kathleen Segerson, Farhed Shah.

M.S, Environmental and Resource Economics, 2011  
Environmental and Resource Economics, University of Rhode Island

B.S., Resource Science and Engineering, 2009  
College of Resource Science, Beijing Normal University, Beijing, China

B.A., International Economy and Trade, 2009  
School of Economics and Business Administration, Beijing Normal University, Beijing, China

## PUBLICATIONS

"Threshold Level Public Goods Provision with Multiple Units: Experimental Effects of Disaggregated Groups with Rebates". Pengfei Liu, Stephen Swallow and Christopher Anderson. **Land Economics** 92:3, August 2016.

"Integrating Co-Benefits Produced with Water Quality BMPs into Credits Markets: Conceptualization and Experimental Illustration for EPRI's Ohio River Basin Trading". Pengfei Liu and Stephen Swallow. **Water Resources Research**, 52, 2016 <http://onlinelibrary.wiley.com/doi/10.1002/2015WR018130/full>.

## WORKING PAPERS

"Multi-Units Public Good Provision Using Individualized Price Auction: Experimental Evidences". Pengfei Liu and Stephen Swallow. **Revise and Resubmit at Journal of Association of Environmental and Resource Economists**

"The Unintended Effect of Rebates: A Field Experiment on Energy Saving". Pengfei Liu, Jian Ni and Qiaowei Shen. **Revise and Resubmit at Marketing Science**

"Do Exurban Communities Want More Development?". Dana M. Bauer, Stephen K. Swallow, Pengfei Liu and Robert J. Johnston. **Third Round Revision at Agricultural and Resource Economics Review**.

"Estimating Private Provision of Public Goods with Heterogenous Participants: A Structural Analysis". Yonghong An, Yingyao Hu and Pengfei Liu. *Cemmap Working Papers, CWP 18/15*,

<http://www.ifs.org.uk/uploads/cemmap/wps/cwp181515.pdf>.

"Assurance Payments for Multi-Unit Public Goods Provision: Experiments Motivated by Ecosystem Service Markets". Zhi Li, Pengfei Liu and Stephen Swallow. **AgEcon Search**. <http://purl.umn.edu/170675>

"Assessing a Provision Game for Two Units of a Public Good, With Different Group Arrangements, Marginal Benefits, and Rebate Rules: Experimental Evidence". Pengfei Liu Stephen Swallow, and Christopher Anderson. **Zwick Center for Food and Resource Policy Working Paper 5**.

"Do Scientists Value Data? A Field Experiment on LTER Scientists' Willingness to Donate to Expand the Nutrient Network by One Site". Stephen Swallow, Pengfei Liu Eric Seabloom and Elizabeth Borer.

"Credit Stacking Policy and Landowners' Behavioral Responses". Pengfei Liu and Stephen Swallow.

"The Influence of Credit Stacking Programs: The Coexistence of Regional Credits and Global Credits in Ecosystem Markets". Pengfei Liu and Stephen Swallow.

"Using Assurance Contract to Encourage Private Provision of Ecosystem Services: Evidence from a Pilot Field Experiment". Pengfei Liu and Stephen Swallow. **AgEcon Search**. <http://ageconsearch.umn.edu/handle/205384>

OTHER  
PUBLICATION

"The Influence of Dynamic Pricing on Consumers' Electricity Saving Behaviors". Pengfei Liu Jian Ni and Qiaowei Shen. **Conference Proceedings, International Association of Energy Economics (IAEE)**

PROPOSALS AND  
GRANTS

**2016-2019 Co-PI**, "Valuation of Water Quality Change in Environment and Economy Context: Ecosystem Services Across Gradients of Degradation and Local Economic Interest", with PI Stephen Swallow, Co-PI Charles Towe, Timothy Vadas, Christine Kirchhoff, Ashley Helton. \$799,990. Water Quality Benefits - EPA-G2015-STAR-A1.

**2016-2017 Co-PI**, "Ecosystem Services across Gradients of Human-Driven Degradation: An Interdisciplinary Pursuit Regarding Thresholds, Hysteresis, Restoration, and Economic Benefits", \$50,000, with PI Stephen Swallow, Co-PI Christopher Elphick, Timothy Vada, Charles Towe, Research Excellence Program, UConn.

**2016-2017 PI**, "Encourage Private Support to Ecosystem Service Provided by Farmland Management using the Assurance Contract: Lab Experiment Studies", \$10,000, USDA/CBEAR Junior Researcher Grant.

**2016-2018 Co-PI**, "Advancing Ecosystem Services, Valuation, Decision-Support, and Agricultural Revenue: EPRI's Ohio River Water Quality Trading Auctions ", with Stephen Swallow. \$499,990. USDA/NIFA/AFRI-2015

**2015 Co-PI**, "Initiating a Partnership with EPRI in the Ohio River Water Quality Trading Auction: A Pilot Test of Experimental Methods for Integrating Environmental Valuation and Market Decision", with Stephen Swallow and Joseph Lucibello. \$5,000. Zwick Center for Food and Resource Policy, University of Connecticut.

**2014-2016 Lead in drafting the proposal, Senior/Key Personnel**, "Credit Stacking in Environmental Markets: Farmers' Participation Incentives, Social Efficiency and Potential Environmental Consequences". Funded by USDA/NIFA/AFRI-2013, with P.I. S. Swallow, co-P.I., R. Chazden, C. Elphick. Awarded in full amount, \$289,240. Featured in Agricultural and Resource Economics Reporter newsletter, UConn.

**2013-2014 Co-drafting the proposal**, "Public Goods, Ecosystem Services, Economic Values, and Market Incentives: Constructing Experimental and Applied Economics for Interdisciplinary Funding". UConn Faculty Large Grant, \$25,000, with P.I. S. Swallow.

**Unfunded Co-PI**, "The Capacity to Value Nutrient Control in Southeastern Coastal New England: Illuminating Policy Benefits and Creating Revenue for Watershed Restoration" \$1,000,000. with PI Stephen Swallow, Co-PI Charles Towe, Mahesh Ramachandran, Lindsey Counsell, US EPA Region 1, Southeast New England Program for Coastal Watershed Restoration.

TEACHING  
EXPERIENCE

**2014** Completion Certificate. Teaching Assistant Program. The Institute for Teaching and Learning. University of Connecticut.

**2014** Lecturer, ARE 3434 (Environmental and Resource Policy, undergraduate level), with Marilyn Altobello. Teaching Evaluation, 3.4/4. University of Connecticut.

**2015** Adjunct Faculty, Lecturer for Econ 1202 (Macroeconomics undergraduate level). University of Connecticut at Avery Point. Teaching Evaluation, 4/5

PRESENTATION

Rui Wang, Pengfei Liu and Xun Li, "The Effectiveness of Mandatory Regulation v.s. Voluntary Program in Hazardous Waste Abatement: Empirical Evidences from National Partnership for Environmental Priority Program", organized by EPA/AEDE. Ohio State University, Columbus, Ohio, May 20-21, 2012.

Liu, Pengfei and Swallow, Stephen K. and Anderson, Christopher M., " Assessing a provision game for two units of a public good, with different group arrangements, marginal benefits, and rebate rules: experimental evidences," 2012 Annual Meeting, August 12-14, 2012, Seattle, Washington, Agricultural and Applied Economics Association.

Swallow, Stephen K. Pengfei Liu, and Michael Siers. The Bobolink Project: Willingness to Pay and Ecosystem Auctions. Cornucopia Fest, College of Agriculture and Natural Resource, University of Connecticut. 2012.

Liu, Pengfei and Stephen K. Swallow. Credit Stacking, Technology Choice and Social Efficiency. Presented to 14th Annual CU Environmental and Resource Economics Workshop, Oct 5-6, 2012, Beaver Creek, Colorado.

Liu, Pengfei and Stephen K. Swallow. The Influences of Credit Stacking on Environmental Credit Trading Markets: Farmers' Participation Incentives, Social Efficiency and Potential Environmental Consequences. Presented at the 3rd Annual AERE Summer Conference, The Banff Centre in Banff, Alberta, Canada, June 6th - June 8th 2013

\* Also Presented at the CANR Graduate Research, Graduate Student Council Research Forum, University of Connecticut, March 27, 2014.

Chirantan Chatterjee, Pengfei Liu and Jian Ni. Intellectual Property, Access to Medicines and Sub-national Competition: Evidence from Indian Anti-Cancer Drug Markets 2007-2012. Presented to 2014 China India Insights Conference, hosted by Yale School of Management and CKGSB, July 13, 2014-July 15, 2014 Pullman Hotel, Lijiang of Yunnan Province, China.

Pengfei Liu , Jian NI and Qiaowei SHEN. The Influence of Dynamic Pricing on Consumers' Electricity Saving Behaviors: Evidences From the Baltimore Gas and Electric Company's (BGE) Pilot Program. 37th International Association of Energy Economics (IAEE) International Conference, New York, June 15-18, 2014.

Pengfei Liu and Swallow, Stephen K., The Influence of Credit Stacking Programs: The Coexistence of Regional Credits and Global Credits in Ecosystem Markets. Northeast Agricultural and Resource Economic Association (NARER), June 1-3, 2014, Morgantown, WV.

\* Also Presented at the Center of Energy and Environmental Policy (CEEP), China Academy of Science (Invited Presentation), Beijing, China. July 10, 2014.

\* Also Presented at the 16th BioEcon conference, Kings College, University of Cambridge,

London, UK, Sep 21-23, 2014.

Pengfei Liu and Swallow, Stephen K., Multiple Units Public Good Provision Using Individualized Price Rules: Experimental Evidence. 2014 Agricultural and Applied Economics Association(AAEA) Annual Meeting, July 27-29, 2012, Minneapolis, MN (Poster Session).

\* Also Presented at the annual meeting of Southern Economics Association, AERE session, Atlanta, GA, at the Atlanta Marriott Marquis, November 22-24, 2014

Pengfei Liu and Swallow, Stephen K., Understanding a Field Auction for Ecosystem Services using the Experimental Economics Laboratory, Invited Presentation, ACES 2014 Conference, December 8-12, Washington DC.

Pengfei Liu and Swallow, Stephen K., Credit Stacking Policy and Landowners' behavior responses. (*Invited Presentation*). Annual Conference of the European Association of Environmental and Resource Economists, June 24-27 2015, Helsinki, Finland. Also presented at 2015 EAERE-FEEM-VIU European Summer School, Venice, Italy.

Pengfei Liu, Jian Ni and Ajay Kalra, "The Role of Marketing in Charitable Donation" 37th ISMS Marketing Science Conference, Baltimore Marriott Waterfront Hotel, 2015

Pengfei Liu and Swallow, Stephen K., Integrating Co-Benefits Produced with Water Quality BMPs into Credits Markets: Conceptualization and Experimental Illustration for EPRI's Ohio River Basin Trading. Sep 15-17, 2015, USDA-EPA National Water Quality Workshop. Lincoln, Nebraska.

2015, AAEA; NAERE; Presentation at Camp Resource, Kansas State University, Department of Agricultural Economics (*Invited Presentation*).

2016, Utah State University, Department of Applied Economics (*Invited Presentation*); Hong Kong Polytechnic University, School of Accounting and Finance (*Invited Presentation*); Marketing Science Annual Meeting; NAERE Annual Meeting; AAEA Annual Meeting.

PRESENTATION BY  
OTHERS

Swallow, Stephen K., Christopher M. Anderson, Pengfei Liu, and Zhi Li. Developing Ecosystem Services Businesses as New Revenues for Farms in Communities Facing Exurban Development. Presented to the USDA/NIFA/AFRI Project Director's Meeting, Miami, FL. November 7-9. 2011.

Zhi Li, Pengfei Liu and Stephen Swallow. Understanding a Field Auction for Ecosystem Services using the Experimental Economics Laboratory, Invited Presentation, ACES 2014 Conference, December 8-12, Washington DC.

Stephen K. Swallow, Pengfei Liu and Achyut Kafle, Lab and field experiments to develop consumer payments for ecosystem services. 2014 Agricultural and Applied Economics Association(AAEA) Annual Meeting, July 27-29, 2014, Minneapolis, MN.

Zhi Li , Pengfei Liu and Swallow, Stephen K., " Assurance Payments for Multiple Units Public Goods Provision: Experiments Motivated by Ecosystem Service Markets," 2014 Agricultural and Applied Economics Association(AAEA) Annual Meeting, July 27-29, 2014, Minneapolis, MN,

Stephen K. Swallow, Pengfei Liu, Zhi Li, Elizabeth Smith, Chris Anderson, Emi Uchida, Allan Strong and Lisa Chase. Creating Revenues for Private Provision of Public Goods: Experimental Insights with Applications to Ecosystem Services. Economics Department, Clark University. March 24, 2014.

Yonghong An , Yingyao Hu and Pengfei Liu. Learning Rule in Private Provision of Public Good: A Structural Analysis. Economics Department, Texas A&M University. Oct 22, 2014.

## REFeree

ACES Meeting, *American Journal of Agricultural Economics*, *Applied Economic Perspectives and Policy*, *Land, Economics & Politics*, AAEA Annual Meeting (behavior economics), *Water, Conservation Letters* (×2), *Agricultural Economics*.

PROFESSIONAL  
ACTIVITIES

**2009-2011** Research Assistant, Department of Environmental and Resource Economics, University of Rhode Island, RI

**2011-Present** Research Assistant, Department of Agricultural and Resource Economics, University of Connecticut, CT

**2012** Eighteenth Graduate Student Workshop in Experimental Economics, with funding from International Foundation for Research in Experimental Economics (IFREE), Chapman university, CA

**2013** Workshop. Agricultural Markets for Ecosystem Services: Greenhouse Gases, Conservation Practice Adoption, and Behavioral Responses, USDA/ERS. Washington D.C..

**2013** Stony Brook University and University of Connecticut Joint Meeting on environmental and ecological research in the coastal zones. UConn's Marine Sciences Department at Avery Point.

**2014** Workshop. Applied Computational Economics Pre-Conference workshop at 2014 AAEA meetings in Minneapolis, MN,

**2014** Session Organizer, "Generating Revenues for the Private Provision of Public Goods: Field and Lab Experiments Developing the Potential for Ecosystem Services Markets". ACES 2014 Conference, December 8-12, Washington DC.

**2014** Session Chair, "Stated Preferences". AERE session, South Economics Association, November 22-24, 2014, Atlanta Marriott Marquis, Atlanta, Georgia.

**2015** ISMS Doctoral Consortium, Marketing Science, Baltimore Marriott Waterfront Hotel, June 18-20, 2015.

**2015** EAERE-FEEM-VIU European Summer School: "Environmental Regulation", 28 Jun 2015 to 04 Jul 2015 Venice, Italy.

**2015** Camp Resources, Session Chair AAEA, AAEA & WAEA Post-conference Workshop.

**2015** USDA-EPA National Water Quality Workshop.

## AWARDS

**2007** Beijing Normal University Academic Special Scholarship, Beijing Normal University.

**2009** Four Year Fellowship Guarantee from Chinese Government Scholarship Council in pursuing Doctoral Degree oversea, 2009. (Declined due to full tuition and living expense coverage from URI)

**2011** Graduate Fellowship, University of Rhode Island.

**2012** Paul Putnam Travel Award, University of Connecticut.

**2012** Conference Travel Award, EPA/AEDE, OSU.

**2012** Charles J. Zwick Award, University of Connecticut.

**2013** Del Favero Scholarship, University of Connecticut.

**2014** Predoctoral Fellowship, University of Connecticut.

**2014** Conference Travel Award, Yale School of Management, Consumer Insight Program.

**2014** Student Scholarship, 37th International Association of Energy Economics (IAEE) International Conference.

**2014** Student Scholarship, Northeast Agricultural and Resource Economic Association (NARER).

**2014** Del Favero Fund Travel Award, University of Connecticut.

**2015** Phi Kappa Phi Grant Writing scholarship, NSF Grant Writing Seminars, College of Agriculture and Natural Resource, University of Connecticut.

**2016** Graduate Student Research Award, College of Agriculture and Natural Resource, University of Connecticut.

## OTHER SERVICES

**2010-2011** Vice President, Chinese Students and Scholar Association, University of Rhode Island.

**2014-2015** Vice President, Graduate Student Association, Department of Agricultural and Resource Economics, University of Connecticut

PROFESSIONAL  
ORGANIZATION

AEA, AAEA, AERE, NAERE, IAEE, SEA, EAERE