

AAE Professor Receives Ralph C. d'Arge and Allen V. Kneese Award

With her paper “The Intersection between Climate Adaptation, Mitigation, and Natural Resources: An Empirical Analysis of Forest Management,” Dr. Yukiko Hashida and her co-authors set out to quantify the effect of climate change and carbon pricing policy on adaptation behavior of private forest landowners. While climate change as a source of damage has been a focus of much economic literature, it’s also an important factor in decision-making, particularly in resource management, as are policy measures. Using a carbon pricing policy that rewards carbon storage, Hashida wanted to see how landowners respond to such policies and what, if any, negative consequences they have on the resulting landscape.

“This paper projects the future forest landscapes in the U.S. Pacific coast based on the three scenarios – no climate change, climate change scenario, and climate change and carbon pricing scenario – based on the plot-level empirical econometric analysis and landscape simulation,” Hashida said. “Some of the key questions that we address are: 1) How will forestland owners change their management decisions in response to climate change and carbon pricing policy?; 2) What would the future forest landscape look like?; 3) Does pricing only one ecosystem service (carbon storage) generate important tradeoffs with other (unpriced) ecosystem services, thus creating unintended negative consequences?”

Using forest survey data collected by the USDA Forest Service, called Forest Inventory Analysis (FIA) data, Hashida and her co-authors developed an empirical econometric model for adaptation decisions.

One particular challenge Hashida’s research encountered was designing models to account for the interactions between the biophysical conditions of the plot, landowners’ management decisions, and the climate. For example, the econometric model used was designed as a model in which the *(continued on page 3)*

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DEPARTMENT INFO

The Agricultural and Applied Economics Department is proud of our alumni! To contribute a story for the newsletter, email Emily Clance at [eclance@uga.edu](mailto: eclance@uga.edu)



Letter from the Department Head

Dear friends:

I hope this newsletter finds you well in these unusual times. Our faculty and staff are eager to see students in Conner Hall again, and we are preparing our facilities for a safe return. We wish the best for the entire Agricultural and Applied Economics Department community, both those currently in our halls and classrooms and those who have graduated, whether in 2020 or years before.

While things may have been different with many of us working from home over the last few months, we still have good news to share. In particular, we would like to congratulate Dr. Cesar Escalante on receiving the Agricultural & Applied Economics Association's Mentoring Award, as well as Dr. Yukiko Hashida for receiving the highly prestigious Ralph C. d'Arge and Allen V. Kneese Award from the Association of Environmental and Resource Economists for her paper "The Intersection between Climate Adaptation, Mitigation, and Natural Resources: An Empirical Analysis of Forest Management." You can read more about Dr. Hashida and her paper in this edition of the newsletter. Our students accomplished much this summer as well, with M.S. student Grace Anne Ingham receiving the 2020 Dr. Ashlee Nicole S. Tillery Outstanding Honors Program Award. Again, congratulations to all of our award recipients!

Once again, I would like to encourage all of our alumni to keep in touch with us. Please consider sharing updates about changes in your life or career so we can include them in this newsletter. You may contact us by emailing Emily Clance at eclance@uga.edu, or by following our LinkedIn page at <https://www.linkedin.com/company/uga-ag-applied-economics>.

As well, if it is within your means, I hope that you will consider donating to departmental scholarships, which can be done on our website at <https://agecon.uga.edu>. Scholarships are more important than ever, given the rising cost of a college education and the financial hardship many students might experience as a result of the ongoing economic slowdown. All the donations to these funds are tax-deductible and are used to provide scholarships to deserving students.

With my sincere wishes for everyone to stay safe and healthy during these trying times;



Octavio Ramirez



AAE Professor Receives Ralph C. d'Arge and Allen V. Kneese Award (cont'd.)

landowner's replanting decision also affected their harvest decision.

"The climate affects the replanting decision and the occurrence and severity of natural disturbance events (e.g., wildfire), which also affects his/her harvest decision," Hashida explained, "In the simulation model, for example, today's wildfire events trigger his/her replanting decision tomorrow, which alters his/her forest's growth parameters, which also depends on future climate.

"Keeping track of all these moving parts was a challenge, but once it is complete, the framework allows me to test all sorts of scenarios and conduct follow-up analyses."

Hashida's research found that climate change induces forest landowners to adapt away from their current dominant species choice of Douglas fir to species more suited to climate change, in particular hardwood species, and that a carbon pricing policy accelerates this shift. As a result, the researchers expect habitat losses for other species that have adapted to Douglas fir habitat and, since many local wildlife species of conservation concern are specialized to Douglas-fir rather than hardwood, a carbon pricing aimed at internalizing a global externality may generate localized externalities by increasing the speed of land-use and habitat changes.

After three years of research and work on her manuscript and two years of revision, Hashida's manuscript was published in the



Journal of the Association of Environmental and Resource Economists, and in May 2020, "The Intersection between Climate Adaptation, Mitigation, and Natural Resources: An Empirical Analysis of Forest Management" received the Ralph C. d'Arge and Allen V. Kneese Award for Outstanding Publication.

"The news came to me out of the blue as I didn't even know that my paper was nominated," Hashida said. "I am happy that a paper like this gets recognition – the paper that looks at the intersection of human systems and natural systems. I feel strongly about the research needs for the impact of our behavior on the environment and the feedback from the environment on our long-term well-being."



Faculty Spotlight: Dan Remar

Raised in Atlanta, Dr. Dan Remar has had a career that took him to kitchens all around the United States and abroad. He first lived and worked in New York City doing marketing, and most recently he was an assistant professor of hospitality in the Peter T. Paul College of Business. The Department of Agricultural and Applied Economics' new Hospitality and Food Industry Management program brought Remar home to Georgia and to UGA, where he is helping to launch the program by teaching every food and beverage-related course in the HFIM program and engaging in as many food-related projects as he can.

“From a broad perspective, anything that has to do with food interests me,” Remar said, “but more specifically I am interested in restaurant operations, consumer behavior and sustainability.” His current research falls right into this area, as he is studying consumers' willingness to dine out during the COVID-19 pandemic. Remar recently received a research grant from NOAA's Saltonstall-Kennedy program, a program that funds projects addressing the needs of fishing communities, and plans to apply for another upcoming grant from the same program in collaboration with Georgia Sea Grant and Marine Extension.

Remar earned his Bachelor of Science degree in Communications from Boston University, his Master of Liberal Arts in Gastronomy from Boston University and his Ph.D. in Hospitality Management from the University of South Carolina. While at the University of South Carolina, he served as a consultant to Sodexo USA. He has held several front- and back-of-house management positions in restaurants and catering establishments throughout the United States. Prior to returning to



Dan Remar

academics, he served as a chef/owner apprentice helping to start Le Clos Saint Roch in Maussane-Les-Alpilles, Provence, France— a Michelin-star restaurant. He is designated as a Certified Hospitality Educator by the American Hotel and Lodging Association and maintains his ServSafe Certification with the National Restaurant Association.



Department Publications

- Minor, J., **B. Campbell**, C. Waltz, and J. Berning. 2020. "Water Savings and Payback Period of a New Drought Tolerant Turfgrass." *Journal of Environmental Horticulture* 38(2):56-62.
- Campbell, B.L.** and W. Steele. 2020. "Impact of Information Type and Source on Pollinator-Friendly Plant Purchasing." *HortTechnology* 30(1):122-128.
- Luo, T. and **C.L. Escalante**. "Public Health Insurance and Farm Labor Supply: Evidence from China's Rural Health Insurance Reform." *China and World Economy*. 28,4 (2020): 1-24.
- Quansah, J., **C.L. Escalante**, A. Kunadu, F. Saalia, and J. Chen. "Pre- and Post-harvest Practices of Urban Leafy Green Vegetable Farmers in Accra, Ghana and Their Association with Microbial Quality of Vegetables Produced" *Agriculture – Open Access—MDPI*. 10,1 (2020): 18.
- Zheng, M. and **C.L. Escalante**. "The Economic Recessionary Pressure on Sustainable Growth Strategies of Agricultural and Non-Agricultural Banks." *Agricultural Finance Review*. 80(3): 437-451.
- Luo, T. and **C.L. Escalante**. "Stringent Immigration Enforcement and the Mental Health and Health-Risk Behaviors of Hispanic Adolescent Students." Research Working Paper. Center for Growth and Opportunity. Utah State University. January 15, 2020. Available online at <https://www.growthopportunity.org/research/working-papers/immigration-enforcement-mental-health-risk-behaviors>.
- Brownson, K. E. Anderson, **S. Ferreira**, S. Wenger, L. Fowler and L. German (2020) "Governance of Payments for Ecosystem Services influences social and environmental outcomes in Costa Rica" *Ecological Economics*, 174, 106659 <https://doi.org/10.1016/j.ecolecon.2020.106659>
- Reeves, T., B. Mei, J. Siry, P. Bettinger and **S. Ferreira** (2020) "Towards a Characterization of Working Forest Conservation Easements in Georgia, USA" *Forests* 11(6), 635; <https://doi.org/10.3390/f11060635>
- Li, M., **S. Ferreira** and T. Smith (2020) "Temperature and self-reported mental health in the United States" *PLoS ONE* 15(3): e0230316. <https://doi.org/10.1371/journal.pone.0230316>
- Fonsah, E.G.**, J. Price and B. Cantrell (2020). "Economic Analysis of Producing Satsuma Citrus in Georgia Using an Enterprise Budget". *Journal of Food Distribution Research* Volume 51, Issue 1, pp. 43–49.
- Steven B. Scyphers, Michael W. Beck, Judy Haner, Andrew Keeler, **Craig E. Landry**, Bret M. Webb, and Jonathan H. Grabowski. 2020. "Designing Effective Incentives to Reverse Coastal Habitat Degradation along Residential Shorelines" *Conservation Letters*, e12744, DOI: <https://doi.org/10.1111/conl.12744>
- Paul Hindsley, * **Craig E. Landry**, and O. Ashton Morgan. 2020. "Incorporating Certainty and Attribute Non-Attendance in Choice Experiments: An Application to Valuation of Coastal Habitat" *Marine Resource Economics* 35(3): 194-, DOI: <https://doi.org/10.1086/709459>
- Langemeier, M. R. & **Liu, Y.** (2020). Comparing Net Return to Land and Risk for Alternative Leasing Arrangements. *Journal of American Society of Farm Managers and Rural Appraisers*.
- Hancock, G. A., **Liu, Y.**, Smith, A. R., & Plastina, A. (2020). Motivations and Challenges of Cover Crop Utilization for Georgia Crop Production. *Journal of American Society of Farm Managers and Rural Appraisers*.
- Liu, Y.**, Bhattarai, A. & Welch, J. M. (2020). Understanding the Commodity Loan Programs for Major Row Crops in Georgia. Department of Agricultural and Applied Economics, University of Georgia. Report No. AGECON-20-02PR. March 2020.
- Liu, Y.**, Bhattarai, A. & Robinson, J. R. C. (2020). Marketing Assistance Loan and Loan Deficiency Payment Program for Upland Cotton. University of Georgia Extension. Publication No. Circular 1194. March 2020.
- Nicholas Magnan**, Abby M. Love, Fulgence J. Mishili, and Ganna Sheremenko. "Husbands' and Wives' risk preferences and improved maize adoption in Tanzania." 14 July 2020. <https://doi.org/10.1111/agec.12589>
- Gopinath, M.**, F. Batarseh and J. Beckman. "Machine Learning in Gravity Models: An Application to Agricultural Trade." NBER Working Paper #27151, Cambridge MA, May 2020. https://www.nber.org/papers/w27151?utm_campaign=ntwh&utm_medium=email&utm_source=ntwg10



Agricultural Economics Association of Georgia

As fellow graduates from the Agricultural and Applied Economics Department of the University of Georgia, we invite you to join the Agricultural Economics Association of Georgia. The investment is nominal, but the rewards and mission are great. It is our hope that most of you will want to support the organization that promotes our industry and field of education.

The Agricultural Economics Association of Georgia (AEAG) was established in 1976. The goals of the Association are:

- To provide opportunities for the professional improvement of people interested in the field of agricultural economics
- To provide a forum for the discussion of economic problems and issues of mutual interest to people working in agriculture, agribusiness, and related fields
- To recommend solutions to economic problems facing Georgia's agriculture

Agricultural economics is involved in all sectors of our economy. The opportunities are greater now than ever before. We must recruit more students and better support agricultural economists if we are to meet the challenges for further application of agricultural economics to farm, resource, environmental, and agribusiness problems.

The AEAG board has new goals to support students in agricultural and applied economics as well as high school students who have yet to make decisions about college. We need your support to be able to carry out those goals to assist the future leaders in our field.

AEAG membership offers benefits through the following:

- *Journal of Agribusiness*
- AEAG newsletter
- J.W. Fanning lecture
- Recognition for career accomplishments
- Enhanced educational opportunities for students in agricultural economics

In addition, AEAG enjoys an active relationship with the Department of Agricultural and Applied Economics at the University of Georgia. The activities of the association provide occasions for interaction among AEAG members, faculty and students. This interaction provides students and professionals important opportunities to network for the purpose of future career connections and the sharing of information and knowledge.

On the following page you will find an application for membership. Lifetime memberships are also available. If you would like to know more about AEAG, visit the AEAG website at <http://aeag.uga.edu>.



For More Information:

Yes, I would like to join the Agricultural Economics Association of Georgia!

Name: _____
Employer: _____
Title: _____
Address: _____
City/State/ZIP: _____
Phone: _____
Email Address: _____

Please check one:

- Student Member (\$10)
- Individual Member (\$25)
- Library/Institutional Member (\$35)
- Corporate Member (\$150)
- Individual Lifetime Member (\$250)
- Corporate Lifetime Member (\$1000)

Please send your membership application and dues to the following address:

Agricultural Economics Association of Georgia
315 Conner Hall
University of Georgia
Athens, GA 30602-7509

For more information, call 706-542-0763 or visit <http://aeag.uga.edu>.

