

# UNMESH KOIRALA

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Postdoctoral Associate  
School of Forest Resources and Conservation  
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## EDUCATION

PhD, Forest Economics and Policy Dec 2020  
University of Florida Gainesville, FL  
*Dissertation: Economic feasibility of incentivizing farm/forest BMP adoption to meet water quality and quantity in Upper Floridan Aquifer region*

MS, Forest Economics Aug 2015  
University of Georgia Athens, GA  
*Thesis: Economic contribution of the forest-based industries in Georgia*

BS, Forest Resources Dec 2011  
Tribhuvan University Kathmandu, Nepal  
*Thesis: Visitor's Willingness to Pay for park information access in the Annapurna Conservation Area*

## RESEARCH EXPERIENCE

Postdoctoral Research Associate May 2021-present  
School of Forest Resources and Conservation  
University of Florida, Gainesville, FL  
*Project: Floridan Aquifer Collaborative Engagement for Sustainability (FACETS)*  
*Research project experience:*

- Evaluating the regional-level economic impact of adopting water conservation-based management practices in the Upper Floridan Aquifer region.
- Non-industrial private forest landowners' willingness to accept payments for improving water resources in the Floridan Aquifer.

Graduate Research Assistant Aug 2015 – Dec 2020  
School of Forest Resources and Conservation  
University of Florida, Gainesville, FL  
*Project: Floridan Aquifer Collaborative Engagement for Sustainability (FACETS)*

*Research project experience:*

- Estimating farm-level economic impacts of water conservation-based management practices in agriculture and forest production in the Upper Floridan Aquifer region.
- Estimating regional-level economic contribution of agriculture and forest production in the Upper Floridan Aquifer region.
- Evaluating economic performance of southern forest production under intensive and extensive management systems using binomial option pricing model.

Graduate Research Assistant

Aug 2013 - Aug 2015

Warnell School of Forestry and Natural Resources

University of Georgia, Athens, GA

*Research project experience:*

- Estimating regional-level economic contribution of forest industries in Georgia.

TEACHING EXPERIENCE

Co-Instructor, Forests for the Future, University of Florida, FOR 2662      2018 - 2019

Development of course material and instructor for 'Forest Economics and Policy' module

Teaching Assistant, Integrated Natural Resource Management      2017 - 2018

University of Florida, FNR 4623C

Instructor for 'Multiple Use Forest Management' module & 'Forest Economic Analysis' lab

Teaching Assistant, Natural Resource Policy and Economics      2016 - 2017

University of Florida, FNR 4660

Grading TA

Teaching Assistant, Natural Resource Conservation      2013 - 2014

University of Georgia, FANR 1100

Grading TA

## PROFESSIONAL PRESENTATIONS

**Koirala, U.**, N. Reaver, H. Haas, A. Susaeta, D. Adams, D. Kaplan, L. Kalin, & W.D. Graham. Economics of Managing Southern Pine to Meet Timber, Non-Timber Forest Products and Ecosystem Services Demands. (Accepted) Society of American Foresters National Meeting. Nov 3-6, 2021. Virtual.

**Koirala, U.**, D. Adams, & J. Soto. Non-Industrial Private Forest Landowners' Willingness to Accept Payments for Improving Water Resources in the Floridan Aquifer. Society of American Foresters National Meeting. October 29-31, 2020. Virtual.

**Koirala, U.**, D. Adams, A. Susaeta, & E. Akande. Binomial Option Valuation to Economically Optimal Southern Forest Production Under Intensive and Extensive Management Systems. Poster Presentation. Society of American Foresters National Meeting. October 29-31, 2020. Virtual.

**Koirala, U.**, D. Adams, & J. Soto. Agricultural Producers' Preference for Cost-share Program for Water Quality and Quantity Improvement in the Florida Aquifer. Selected paper for presentation in Seventh Interagency Conference on Research in the Watersheds. November 16-19, 2020. Virtual.

**Adams, D.**, U. Koirala, & J. Soto. Agricultural Producers' Willingness to Pay for Improving Water Resources in the Florida Aquifer. The 7<sup>th</sup> University of Florida Water Institute Symposium. Feb 24-25, 2020. Gainesville, FL.

**Koirala, U.**, D. Adams, C. Court, K. Athearn, A. Smith, F. He, & G. Hancock. Understanding the Regional Economic Impact of Adopting Agricultural Best Management Practices (BMPs) in the Upper Floridan Aquifer (UFA) Region. Southern Agricultural Economics Association Annual Meeting. February 1-4, 2020. Louisville, KY.

**Koirala, U.**, K. Athearn, & D. Adams. The Effects of Non-Timber Ecosystem Services on Economically Optimal Forest Management. Society of American Foresters National Meeting. October 3-7, 2018. Portland, OR.

**Koirala, U.**, K. Athearn, & D. Adams. Enterprise-level economic impacts of agricultural BMPs adoption to meet Florida water quality and quantity standards. The 6<sup>th</sup> University of Florida Water Institute Symposium. February 6-7, 2018. Gainesville, FL.

**Koirala, U.**, & D. Adams. Enterprise-level impacts of forest BMP adoption in Florida. Poster Presentation. School of Forest Resources and Conservation Graduate Student Symposium. April 7, 2017. Gainesville, FL.

**Koirala, U.**, D. Kaplan, P. Dwivedi, & D. Adams. Economic feasibility of incentivizing farm/forest BMP adoption to meet Florida water quality and quantity standards. Poster Presentation. School of Forest Resources and Conservation Graduate Student Symposium. March 16-17, 2016. Gainesville, FL.

## PUBLICATIONS

Koirala, U., & B. Jackson. 2015. Economic impacts of forestry and forest products in Georgia, 2012. Georgia Forestry Statistics.

Koirala, U., D. Adams, A. Susaeta, and K. Athearn. Economic impacts of farm and forest adoption of water conserving best management practices in Georgia and Florida. In preparation for submission to Journal of Agricultural & Applied Economics.

Koirala, U., D. Adams, A. Susaeta, and D. Kaplan. Ecological and economic tradeoffs of achieving water resource standards in Florida and Georgia. In preparation for submission to Journal of Environmental Management.

Koirala, U., D. Adams, J. Soto, and A. Susaeta. Farm and forest landowners' willingness to adopt payments for best management practice adoption. In preparation for submission to Ecological Economics.

Koirala, U., D. Adams, A. Susaeta and E. Akande. The effects of non-timber ecosystem services on economically optimal forest management. In preparation for submission to American Journal of Environmental and Resource Economics.

Koirala, U., D. Adams, C. Court, K. Athearn, A. Smith, F. He, & G. Hancock. 2020. Understanding the Regional Economic Impact of Adopting Agricultural Best Management Practices (BMPs) in the Upper Floridan Aquifer (UFA) Region. Selected paper for presentation in Southern Agricultural Economics Association Annual Meeting. February 1-4, 2020. Louisville, KY.

Koirala, U., & B. Jackson. 2015. Economic Impacts of Forestry and Forest Products in Georgia, 2012. Georgia Forestry Statistics.

Hancock, G., A. Smith, U. Koirala, F. He, D. Adams, T. Borisova, K. Athearn, S. Guzman, & Y. Liu. 2019. Development of Best Management Practice Simulations with Enterprise Budgets for Production in the Flint and Suwannee River Basins. Selected paper for presentation in Southern Agricultural Economics Association Annual Meeting. February 2-5, 2019. Birmingham, AL.

#### SERVICE

Secretary, Nepalese Student Association at University of Florida, 2016 - 2017  
Gainesville, FL.

Member, Forest Resource and Conservation Graduate 2015 - 2020  
Student Association,  
Gainesville, FL.

Vice-President, Nepalese Student Association at University of Georgia, 2014 - 2015  
Athens, GA.

Member, Forest Resource and Conservation 2013 - 2015  
Graduate Student Association,  
Athens, GA.

## SOFTWARE

Computer modeling and simulation, including statistical analysis: R, @RISK, Simetar,  
IMPLAN

Geographic Information Systems: ArcGIS

Microsoft Office: Word, Excel, PowerPoint

## PROFESSIONAL MEMBERSHIP

Society of American Foresters (SAF)

Southern Agricultural Economics Association (SAEA)