

# Yu Wu

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## EDUCATION

North Carolina State University, Raleigh, NC 2018  
Ph.D., Economics  
Dissertation: *Essays on Deforestation and Forest Ecosystem Services: An Economic Perspective*  
Committee: Erin O. Sills (Chair), Walter Thurman, Mitch Renkow, Zachary S. Brown

North Carolina State University, Raleigh, NC 2014  
M.R., Economics

Beijing Forestry University, Beijing, China 2012  
B.M., Agricultural and Forest Economics

## RESEARCH FIELDS

Applied Microeconomics, Econometrics  
Environmental and Resource Economics, Agricultural Economics  
Development Economics, Energy Economics, Regional Economics

## EXPERIENCE

**Postdoctoral Research Associate** 2018-present  
Carolina Population Center, University of North Carolina at Chapel Hill, Chapel Hill, NC  
**Project:** *Partnerships in International Research and Education (PIRE): Confronting Energy Poverty: Building an Interdisciplinary Evidence Base, Network, and Capacity for Transformative Change*, funded by NSF

**Coordinator and Instructor** 2018-present  
Carolina Population Center, University of North Carolina at Chapel Hill, Chapel Hill, NC  
**Course:** *Energy Poverty PIRE in Southern Africa (EPPSA) Graduate Seminar*

**Graduate Researcher** 2013-2018  
Center for Environmental and Resource Economic Policy, North Carolina State University, Raleigh, NC  
**Project:** *Living with Deforestation: Analyzing Transformations in Welfare and Land Use on an Old Amazonian Frontier*, funded by NSF  
**Project:** *Determining Use, Economic Impacts and Value of Game Lands in North Carolina*, funded by the NC Wildlife Resources Commission  
**Project:** *Valuation of Forest Ecosystem Services*, funded by the USFS

**Working Group Researcher** 2015-2018  
The National Socio-Environmental Synthesis Center, Annapolis, MD

**Project:** *Forest, Agriculture, and River (FAR) Systems in the Brazilian Amazon: Evaluating the Impacts of Forest Cover Change on Hydrological Services*

**Instructor / Teaching Assistant**

2015- 2017

Department of Economics, Department of Agricultural and Resource Economics, North Carolina State University, Raleigh, NC

EC 205 Fundamentals of Economics

ARE/EC 336 Resource & Environmental Economics

ECG 515 Environmental and Resource Policy

ECG 716 Topics in Environmental and Resource Economics

**WORKING PAPERS**

**Yu Wu**, Katrina Mullan, Trent Biggs, Jill Caviglia-Harris, Daniel Harris, and Erin O. Sills. 2020. Do Forests Provide Watershed Services to Local Populations in the Humid Tropics? Evidence from the Brazilian Amazon. (Under review in Ecological Economics).

**Yu Wu**, Barbara Entwisle, Sudhanshu Handa, Cyrus Sinai. 2020. Migration and Fuel Use in Rural Zambia. (Under review in Population and Environment).

**Yu Wu** and Erin O. Sills. 2020. The Evolving Relationship between Market Access and Deforestation on the Amazon Frontier.

**Yu Wu**, Pamela Jagger, Barbara Entwisle, Kate Brandt, and Daniel Han. 2020. Tree Cover and Energy Poverty: Longitudinal Evidence from Malawi.

William R. Casola, M. Nils Peterson, **Yu Wu**, Erin O. Sills, Brent S. Pease, Krishna Pacifici. 2020. Measuring the Value of Public Hunting Land Using a Hedonic Approach.

**WORK IN PROGRESS**

Income support policy, and social and economic risk diversification in a poor, rural setting (with Sudhanshu Handa, Barbara Entwisle, and Cyrus Sinai).

Liquified Petroleum Gas Usage and Acute Respiratory Infections in Gabon (with Daniel Han, Cyrus Sinai, Kate Brant, Varun Goel, Griffin Bell, and Michael Emch).

**PRESENTATIONS**

ASSA Annual Meeting (AERE Session), virtual meeting, selected paper

“Migration and Fuel Use in Rural Zambia” scheduled in Jan. 2021

AAEA Annual Meeting, virtual meeting, Poster scheduled in Aug. 2020

“Deforestation and Energy Poverty: Longitudinal Evidence from Malawi”

AERE Summer Conference, canceled due to COVID-19, Poster Jun. 2020

“Migration and Fuel Use in Rural Zambia”

Interdisciplinary Population Science Seminar, Chapel Hill, NC, invited talk Jan. 2020

“Migration and Fuel Use in Rural Zambia”

Triangle Research Initiative on Household Energy Transitions (TRI-HET) Mar. 2019

semi-annual meeting, Raleigh, NC, lightning talk

“Land Use Change and Household Energy Choice in Southern Africa”

AAEA Annual Meeting, Washington D.C., Selected Paper Aug. 2018

“The Evolving Relationship between Market Access and Deforestation on the Amazon Frontier”

AAEA Annual Meeting, Washington D.C., Selected Paper Aug. 2018

“Do Forests Provide Watershed Services to Local Populations in the Humid Tropics? Evidence from the Brazilian Amazon”

NAREA Annual Meeting, Philadelphia, PA, Selected Paper Jun. 2018

“Modeling Tropical Deforestation: A Function of Market Access or Urban Access?”

Interdisciplinary Ph.D. Workshop in Sustainable Development at Columbia University (IPWSD), New York, NY, Selected Paper Apr. 2018

“Forest Watershed Services on an Old Frontier in the Brazilian Amazon”

The National Socio-Environmental Synthesis Center (SESYNC) workshop, Annapolis, MD

“Forest Watershed Services on an Old Frontier in the Brazilian Amazon” Mar. 2018

Annual MEAS-FER (Marine, Earth, and Atmospheric Sciences and Forestry and Environmental Resources) Research Symposium, Raleigh, NC, Speed Talk Aug. 2017

“Forest Watershed Services on an Old Frontier in the Brazilian Amazon”

Camp Resources XXIV, Wrightsville Beach, NC, Selected Paper Aug. 2017

“Forest Watershed Services on an Old Frontier in the Brazilian Amazon”

The National Socio-Environmental Synthesis Center (SESYNC) workshop, Annapolis, MD

“Local Benefits of Forest Watershed Services” Jan. 2017

The National Socio-Environmental Synthesis Center (SESYNC) workshop, Annapolis, MD

“Market Access Drivers of Deforestation” Jun. 2016

The Center for Environmental and Resource Economic Policy (CEnREP) Colloquium, Raleigh, NC, invited talk Apr. 2016

“Drivers of Deforestation in the Western Brazilian Amazon”

3rd Latin American Research Symposium, Raleigh, NC, Poster Feb. 2016

“Drivers of Deforestation in the Western Brazilian Amazon”

## PUBLICATIONS

Yu Wu. 2011. *Characteristics and Development Strategies of Urban Agglomerations in Ethnic Minority Border Regions--A Case study of "Wen Yan Qiu Ping" Urban Agglomerations*, Economic Forum 4: 127-132. DOI: 10.3969/j.issn.1003-3580.2011.04.030

Yu Wu. 2010. *Analysis on Regional Differences of Forestry Development in China*. Resource Development & Market 3: 219-222. DOI: 10.3969/j.issn.1005-8141.2010.03.009

### Translations:

Kevin J. Boyle and Thomas P. Holmes. “*Choice Experiments and Valuing Forest Attributes*”, Chapter 9 in Kant, S., & Alavalapati, J. (eds) *Handbook of Forest Resource Economics*, Routledge, 2014. Translated by Yu Wu (into Chinese). China Forestry Publishing House, 2018.

Neelam C. Poudyal and Donald G. Hodges. “*Valuation of Open Spaces in Urban Environments*”, Chapter 11 in Kant, S., & Alavalapati, J. (eds) *Handbook of Forest Resource Economics*, Routledge, 2014. Translated by Yu Wu (into Chinese). China Forestry Publishing House, 2018.

Erin O. Sills. “*Economics of the Evolution of the Amazon Frontier*”. Chapter 26 in Kant, S., & Alavalapati, J. (eds) *Handbook of Forest Resource Economics*, Routledge, 2014. Translated by Yu Wu (into Chinese). China Forestry Publishing House, 2018.

## AWARDS AND HONOR

|                                                                                                                                                                       |           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| NAREA Conference Scholarship, Philadelphia, PA                                                                                                                        | 2018      |
| Provost Doctoral Recruitment Fellowship, NCSU, Raleigh, NC                                                                                                            | 2014-2015 |
| Graduate Research & Teaching Assistantships, NCSU, Raleigh, NC                                                                                                        | 2013-2018 |
| Outstanding Bachelor’s Thesis award, BFU, Beijing, China                                                                                                              | 2012      |
| Outstanding Academic Performance Fellowship, BFU, Beijing, China                                                                                                      | 2011      |
| Liang Xi Fellowship, BFU, Beijing, China                                                                                                                              | 2011      |
| 3rd Place award of the 14th National Forestry and Economics Conference for College Students, and 2nd Place award in the BFU competition area, Yunnan & Beijing, China | 2011      |
| Outstanding Academic Performance Fellowship, BFU, Beijing, China                                                                                                      | 2010      |
| Liang Xi Fellowship, BFU, Beijing, China                                                                                                                              | 2010      |
| 1st Place award in the 7th Academic Paper Competition of the College of Economics and Management, BFU, Beijing, China                                                 | 2009      |
| Liang Xi Fellowship, BFU, Beijing, China                                                                                                                              | 2009      |
| Liang Xi Honored Program, BFU, Beijing, China                                                                                                                         | 2008-2012 |

## OTHER EXPERIENCE

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Postdoctoral trainee, Population Science Training Program, Carolina Population Center, UNC-CH, Chapel Hill, NC                                                                                                                        | 2018-present      |
| Mentor for student intern, Global Engagement in Academic Research (GEAR) summer program, NCSU, Raleigh, NC                                                                                                                            | Jul.2017          |
| Participant, NCSU Graduate School Professional Development Program, Sessions included “Intercultural communication in the US Classroom” and “Career Path Panel”                                                                       | Mar.–Aug. 2017    |
| Selected attendee, Berkeley/Sloan Summer School in Environmental and Energy Economics, University of California, Berkeley, CA                                                                                                         | Aug.2016          |
| Treasurer, NCSU Chapter of the International Society of Tropical Foresters (ISTF), Raleigh, NC                                                                                                                                        | 2014-2015         |
| Principal Investigator, BFU<br><i>Urban Agglomerations in Ethnic Minority Border Regions of China</i> , the grant of the National Innovation Training Plan for College Students, funded by Ministry of Education of China, 20,000 RMB | 2010-2011         |
| Intern, The Nature Conservancy (TNC), Kunming, Yunnan, China                                                                                                                                                                          | Jul.2011-Aug.2011 |
| Intern, Forestry Bureau of Fujian Province, Sanming, Fujian, China                                                                                                                                                                    | Jun.2011-Jul.2011 |
| Intern, Tongyuanpu State-owned Forest Farm, Liaoning, China                                                                                                                                                                           | May2011-Jun.2011  |

Intern, Forestry Bureau of Qiubei County, Qiubei, Yunnan, China

Jul.2010-Aug.2010

## **MEMBERSHIPS**

American Economic Association (AEA)

Agricultural and Applied Economics Association (AAEA)

Association of Environmental and Resource Economists (AERE)

Northeastern Agricultural and Resource Economics Association (NAREA)

Population Association of America (PAA)

International Society of Tropical Foresters (ISTF)

Latin American Student Association at NCSU (LASA)

## **SKILLS**

- Data Analysis: Stata, R, Python, SAS, MATLAB, Tableau, GAMS
- Geospatial Analysis: ArcGIS, R, QGIS
- Data Management: SQL
- Languages: English (Fluent), Mandarin Chinese (Native)