

# Duong Phuc Ta

Ph.D. Candidate, Department of Agricultural and Applied Economics, Virginia Tech

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## FIELDS & RESEARCH FOCUS

**Primary:** Applied Econometrics; Agricultural Economics    **Secondary:** Environmental and Resource Economics

I study how climate shocks, water scarcity, infrastructure, and policy incentives affect land-use decisions, agricultural outcomes, and environmental adaptation, using causal inference — difference-in-differences, instrumental variables, and double machine learning — combined with household survey, panel, and spatial data.

## EDUCATION

- **Virginia Tech** 2023 – Expected May 2028  
USA  
*Ph.D. in Agricultural and Applied Economics*
- **University of Greenwich** 2014 - 2015  
United Kingdom  
*MSc in Business and Financial Economics*
- **The National Economics University** 2004 - 2008  
Vietnam  
*Bachelor in Economics*

## JOB MARKET PAPER

“[Title to be confirmed]”

[Abstract: the climate, land, water, or agricultural decision at stake; the identification strategy; the headline result; and what it implies for policymakers, land managers, or producers.]

## PUBLICATIONS

### Peer-Reviewed Journal Articles:

- [1] Bradford Mills, Chi Ta, **Duong Phuc Ta**, Huong Nguyen (2025). “Salinity Inundation, Profitability, and Rice Farming Exits in Mekong Delta of Vietnam”. *Journal of the Agricultural and Applied Economics Association*, 4(2), pp:170-186. DOI: [10.1002/jaa2.70004](https://doi.org/10.1002/jaa2.70004)
- [2] Bradford Mills, Dung Phuong Le, **Duong Phuc Ta**, Lien Nhu, Danh Thanh Vo and Ricardo Labarta (2022). “Intensive and extensive rice farm adaptations in salinity-prone areas of the Mekong Delta”. *Climate and Development*, 15(2), pp:162-176. DOI: [10.1080/17565529.2022.2072800](https://doi.org/10.1080/17565529.2022.2072800)
- [3] Chuc Dinh Nguyen and **Duong Phuc Ta** (2019). “Trade, Structural Adjustments and Productivity Growth in Vietnam: The Shift to Services”. *Journal of Southeast Asian Economies*, 36(2), pp:256-273.
- [4] **Duong Phuc Ta** (2015). “Effects of Capital Flows on Housing Prices in Emerging Economies: A Panel Approach”. *Vietnam Socio-Economic Development*, 81 (April 2015).

### Journal Articles (in Vietnamese) — published under the name Ta Phuc Duong:

- [1] **Ta Phuc Duong** (2023). “Welfare impacts of non-farm livelihood participation of households in Vietnamese rural area”. *Journal of Economic Studies*, 12(523).
- [2] **Ta Phuc Duong** (2021). “Impacts of agricultural portfolio changes on farm household income under the context of climate changes in Vietnam Mekong Delta”. *Journal of Economic Studies*, 12(523).
- [3] **Ta Phuc Duong** and Nguyen Thi Anh Tuyet (2018). “Trends in economic functions of Vietnamese households”. *Journal of Economic Studies*, 7(482).

WORKING PAPERS & RESEARCH IN PROGRESS

[1] **Duong Phuc Ta**, Bradford Mills, Kurt Stephenson, John Fike. "Economic Feasibility and Carbon Sequestration of Silvopasture in the Southeastern U.S." *Under review*.

[2] **Duong Phuc Ta**. "Estimating impacts of climate stress on US milk production: a panel data with debiased machine learning approach."

CONFERENCE PRESENTATIONS

[1] **Duong Phuc Ta**, Bradford Mills, Kurt Stephenson, John Fike, Tom Stanley (2025). "Economic Feasibility and Carbon Sequestration of Silvopasture in the Southeastern U.S." *Presented at the AAEA-WAEA Annual Meeting*, July 27-29, 2025, Denver, CO.

[2] Nguyen Chien Thang and **Ta Phuc Duong** (2019). "Changing trend of production function of Vietnamese households". RC06-VSA International Conference: The Family in Modern and Global Societies: Persistence and Change. October 17-19, 2019, Hanoi, Vietnam.

RESEARCH & WORK EXPERIENCE

|                                                                                                                                                               |                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| • <b>Virginia Tech</b>                                                       | 2023 – present |
| Graduate Research Assistant                                                                                                                                   | USA            |
| • <b>The International Center for Tropical Agriculture (CIAT), Asia Hub</b>  | 2018 – 2022    |
| Research Assistant / Data Analyst (held concurrently with the VIE research post)                                                                              | Vietnam        |
| • <b>Vietnam Institute of Economics (VIE)</b>                                | 2010 – 2023    |
| Researcher                                                                                                                                                    | Vietnam        |

TEACHING, TRAINING & MENTORING EXPERIENCE

|                                                                                                          |                |
|----------------------------------------------------------------------------------------------------------|----------------|
| • <b>Virginia Tech</b>  | 2023 – present |
| Graduate Teaching Assistant                                                                              | USA            |

PROFESSIONAL SERVICE & AFFILIATIONS

**Affiliations:** Agricultural and Applied Economics Association (AAEA).

SKILLS

- **Statistical & Econometric Software:** Stata, R, Python, Matlab, SQL, LaTeX
- **Geospatial & Remote Sensing:** Google Earth Engine
- **Machine Learning & Data Science:** Scikit-learn, TensorFlow, Keras
- **Reproducibility & Collaboration:** Git, GitHub, Quarto, VSCode
- **Research Methods:** Econometrics, Causal Inference, Microeconomic Methods, Cost-Benefit Analysis, Machine Learning, Survey Design, Experimental Design, Data Management, Data Visualization
- **Additional Training:** Machine Learning Specialization, Stanford University via Coursera (3 courses), 2025

LANGUAGES

Vietnamese (native), English (fluent).

REFERENCES

1. **Reference Person 1**  
Job Title, Department  
Affiliation  
Email: email1@example.com  
*Relationship: [e.g., Thesis Advisor, Manager, etc.]*

2. **Reference Person 2**  
Job Title, Department  
Affiliation  
Email: email2@example.com  
*Relationship: [e.g., Project Supervisor, Colleague, etc.]*

3. **Reference Person 3**  
Job Title, Department  
Affiliation  
Email: email3@example.com  
*Relationship: [e.g., Mentor, Collaborator, etc.]*