

# Kai Ling

4080 Haley Center – Auburn University – AL, USA  
 +1 91951981413 • kzl0095@auburn.edu  
[Google Site](#) [Google Scholar](#) [LinkedIn](#)

## RESEARCH INTERESTS

---

Environmental Economics, Econometric Modeling, Machine Learning, and Big Data

## EDUCATION

---

<b>Auburn University</b>	Auburn, AL
PhD in Applied Economics	2021.08–present
<b>The George Washington University</b>	Washington, DC
MS in Data Analytics	2019.08–2020.12
<b>The Pennsylvania State University</b>	State College, PA
BS in Applied Mathematics	2015.08–2018.12

## PROFESSIONAL EXPERIENCE

---

<b>Graduate Research Assistant</b>	Auburn, AL
Auburn University	2021.08–present
<b>Instructor</b>	Ningbo, China
Ningbo University	2021.01–2021.5
<b>Data Analyst</b>	Washington, DC
IBM practicum	2020.05–2020.08

## ACADEMIC PUBLICATION

---

**Ling, K., Won, S., & Li, W. (2025).** "Investigating Production Cycles in the U.S. Softwood Lumber Industry: 1965–2017". Accepted. *Journal of Forest Economics*.

## CONFERENCE PRESENTATIONS

---

Ling, K., Won, S. (2025). Investigating the Impact of Historical Weather Events on Climate-Smart Agriculture Adoption. 2025 AAEA Annual Meeting.  
 Ling, K., Won, S., & Li, W. (2025). Uncovering the Production Cycle behind the US Lumber Industry: from 1965 to 2017. 2025 AAEA Annual Meeting.  
 Ling, K., Deb, P., & Li, W. (2023). Global Food Price Volatility Spillover from International to Domestic Markets. 2023 AAEA Annual Meeting.

## WORKING PAPERS

---

Investiating the Impact of the Historical Weather Events on the adoption of Conservation Tillage. (With Sunjae Won).  
 Global Food Price Volatility Spillover from International to Domestic Markets. (With Prokash Deb, and Wenying Li).

## TECHNICAL PROJECTS

---

<b>Global Scale Dynamic Land Ecosystem Model (DLEM) Development</b>	Auburn, AL
Auburn University	2021.08–2022.07

- Incorporated permafrost related physical processes including heat exchange equation, a moss layer at soil surface and organic soil parameterizations into DLEM, improving the model simulation performance regarding soil temperature and soil moisture for the arctic regions.
- Developed vertical frozen soil biogeochemical model including cryoturbation/bioturbation and vertical movement of soil organic carbon.

### Third Party Risk Identification

Washington, DC

IBM

2020.05-2020.08

- Collected and processed 10k+ scrapped third-party customer review data and applied advanced NLP techniques to perform the sentiment analysis based on business needs to identify the potential risk influences.
- Clarified the client's current business process and discussed designed consulting solutions with clients frequently; Made optimization of the sentiment analysis directions according to the feedback.

### House Price Prediction Competition(Top 3%)

Washington, DC

The George Washington University

2020.08-2020.12

- Collected and processed 10k+ scrapped third-party customer review data and applied advanced NLP techniques to perform the sentiment analysis based on business needs to identify the potential risk influences.
- Clarified the client's current business process and discussed designed consulting solutions with clients frequently; Made optimization of the sentiment analysis directions according to the feedback.

### Cloud Computing and Big Data Modeling

Washington, DC

The George Washington University

2020.08-2020.12

- Used Python to Extract contents from the 56 GB cloud disaggregation dataset which stored in 3k+ double compressed folders, reformatted the data from the raw format, added necessary features to perform the analysis.
- Used SQL query to manipulate and analyze the wrangled dataset, evaluated the rank of important attributes, and explored the relationship within different electrical appliances.

## TECHNICAL SKILLS

---

### Programming

Python • R • C++ • HTML/CSS • SQL • SAS

### Miscellaneous

Spark •  $\LaTeX$  • ArcGIS • Microsoft Office

## PROFESSIONAL TRAINING

---

Python Full Stack Web Developer Training  
NVIDIA Deep Learning Certification  
Tridium Niagara 4 Technical Certification