# Sanghyun Peter Cho

**[Personal Website](#)**

## WORK EXPERIENCE

**Center for Research on the Wisconsin Economy (CROWE) at UW–Madison**　　　　　　**Jan. 2024–Present**
*Graduate Research Assistant*
- Conducted data analyses for Professor Kim Ruhl's various research projects.
- Assessed the effect of higher education on earnings and examined the heterogeneity across majors, institutions, and years after graduation.
- Constructed the inflow-outflow table of the federal contract obligations to each firm and sector in Midwest states.

**University of Wisconsin–Madison**　　　　　　**Jan. 2023–Aug. 2023**
*Research Assistant*
- Assisted Professor Paolo Martellini in writing his working paper, *Local Labor Markets and Aggregate Productivity*.
- Using *Python*, built a dataset of zoning regulations, property transaction history, and tax records of Chicago and New York.
- Created a choropleth plot for housing price and land use and density regulation map, and presented the works to the professor and his colleagues.

**Republic of Korea Army**　　　　　　**Oct. 2018–May. 2020**
*Sergeant*
- Managed the procurement of contracts with suppliers by monitoring the food warehouse inventory, leading a team of 4 squad members.
- Refined the food demand forecast system to improve the resource allocation efficiency for 64 subsidiary battalions.

**Institute for Development and Human Security**　　　　　　**May. 2017–Aug. 2017**
*Research Assistant*
- Drafted a grant report to the *Bill and Melinda Gates Foundation* on the analysis of the development aid from the OECD.
- Organized and promoted the *2017 International Women's Health Student Writing Competition* sponsored by the *Bill and Melinda Gates Foundation* to raise public awareness of women's health issues in developing countries.

## (SELECTED) PROJECTS

**Spatial Labor Misallocation Analysis ([Link](#))**　　　　　　**May. 2023–Dec. 2023**
- Designed a general equilibrium model to identify the spatial labor misallocation caused by land-use regulations.
- Conducted a counterfactual analysis and found the spatial misallocation in the US has significantly improved since 2010.
- Examined the consistency of the new model with *Hsieh and Moretti (2019)* through kernel density estimation.

**Cause of Death Analysis ([Link](#))**　　　　　　**May. 2023–Dec. 2023**
- Analyzed the causes of death and mortality rates to identify the close link between low-education and the deaths of despair.
- Designed OLS, Logit and Probit models to predict the relative risks of death based on the demographic components among the midlife citizens using the national longitudinal survey data.

**Spatiotemporal Analysis ([Link](#))**　　　　　　**Jan. 2021–May. 2021**
- Analyzed the correlation between transportation services and crime rate by area and the time of day using the 2SLS regression model using Air Quality Index as an instrument variable.
- Processed a large dataset containing 107 million ridesharing and taxi transactions in Chicago and merged it with the crime data.

## EDUCATION
**University of Wisconsin–Madison**
M.S., Economics　　　　　　**Expected May. 2024**
B.A., Economics　　　　　　**May. 2021**

## SKILLS
Python, Stata, MS Office, SQL, Tableau, LaTeX

## LANGUAGES & CERTIFICATES
English (Fluent), Korean (Fluent)
Harvard Business School Online: Big Data for Social Good　　　　　　**Jan. 2022–Feb. 2022**