

# CHANHYUK PARK

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## EDUCATION

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PhD Student in Political Science, Washington University in Saint Louis	2023 -
MA Political Science, Washington University in Saint Louis	2026
MA Political Science, Korea University	2023
BA Political Science, Korea University	2021
BA Arts in Philosophy, Korea University	2021

## RESEARCH INTERESTS

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Methodology, AI and Politics

## TECHNICAL SKILLS

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**Programming:** Python (PyTorch, NumPy, Pandas, Scikit-learn), R (Tidyverse, Stan), C (Beginner), L<sup>A</sup>T<sub>E</sub>X

**Methods:** Generative Modeling (Normalizing Flows), Causal Inference, Reinforcement Learning, Bayesian Statistics, High-Dimensional Density Estimation.

## WORKING PAPERS

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**AIPW with Normalizing Flows for Continuous Treatment** *with Xiangyu Song*

- Developing a novel doubly robust estimator using Normalizing Flows to handle high-dimensional continuous treatment effects.

**Causal Inference with Ordinal Outcomes: Generative Density Estimation based Approach**

- Applying deep generative models to estimate more flexible link functions in ordinal data structures.

**Instrumental Variable Approach in Survey Attrition** *with Jacob Montgomery and Xiangyu Song*

**Good Times, Bad Times: Left Censoring in Grouped Binary Duration Data** *with David Carter, et al.*

## TEACHING EXPERIENCE

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### Primary Instructor

R Programming for Beginners (Washington University in St. Louis) Winter 2026

### Teaching Assistant

Causal Inference (Christopher Lucas, Washington University in St. Louis) Spring 2026

Data Science For Politics (Jacob Montgomery, Washington University in St. Louis) Fall 2025

Politics of International Trade (Timm Betz, Washington University in St. Louis) Spring 2025

Computational Social Science (Christopher Lucas, Washington University in St. Louis)      Fall 2024  
Data Science and Artificial Intelligence (Eun Kyong Shin, Korea University)      Spring 2022

## RESEARCH EXPERIENCE

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**Research Intern** *Ilmin International Relations Institute*      Spring 2015

- Collected data on NGOs with subsidies from Korean Ministry of Unification

**Research Assistant** *Hyeok Yong Kwon*      Fall 2022

- Assisted collecting and visualizing data on the polarization of South Korea
- Assisted collecting, analyzing and visualizing data on the economic status and Korean's attitude towards reunification

**Junior Research Fellow** *Korea University Institute for Political Research*

- Political Economy Lab monthly research seminar

## SCHOLARSHIPS AND GRANTS

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**Travel Grants** Washington University in St Louis \$ 1,000      2025

**Competitive Scholarship** Chungbuk Human Resource Development Foundation      2015, 2018, 2019

**Competitive Scholarship** Eumsung Scholarship      2014, 2015, 2019