Heeyoun Shin

heeyounshin1@gmail.com | 785 979 0091 | heeyounshin.com | linkedin.com/in/sheeyoun

Profile

Data Analyst with expertise in SQL, Python, and business intelligence tools, specializing in large-scale survey and administrative data. Experienced in developing reproducible data pipelines, validating and normalizing datasets, and applying supervised machine learning techniques to deliver actionable insights. Skilled in creating executive-level reports and dashboards, leveraging automation to improve efficiency, and aligning analyses with organizational goals to support strategic decision-making.

Experience

Graduate Research Fellow, University of Kansas – Lawrence, KS   Aug 2019–Present

- Analyzed large-scale national survey datasets, including the National Longitudinal Study of Adolescent to Adult Health, the Health and Retirement Study, and the National Couples' Health and Time Study, using SQL , Python, R, and Stata to clean, integrate, and validate sensitive longitudinal data.
- Applied supervised machine learning methods, including logistic regression for binary outcomes, multinomial logit models for categorical outcomes, and linear regression for continuous outcomes, to predict health and social outcomes from survey data.
- Identified heterogeneity in treatment effects by applying inverse probability of treatment weighting (IPTW), propensity score matching (PSM), and difference-in-differences (DiD) approaches, enabling subgroup comparisons and enhancing the interpretability of causal estimates.
- Produced detailed reports, visualizations, and dashboards in collaboration with interdisciplinary teams of faculty, statisticians, and policy researchers, translating complex statistical results into clear, evidence-based insights and actionable recommendations to support decision-making in health and social science research at both academic and executive levels.

Research Analyst, Korea Employment Information Service – South Korea   Aug 2017–Jul 2019

- Extracted and constructed analytic samples from national employment insurance administrative data using SQL, integrating large-scale records with customized survey instruments.
- Designed and implemented quasi-experimental evaluations of government workforce training programs, applying difference-in-differences (DiD) and propensity score matching (PSM) in SAS to estimate causal effects.
- Conducted comparative analyses of labor market trajectories and satisfaction outcomes between program participants and non-participants, delivering statistical reports and interactive dashboards in Excel (VBA) and Tableau to support program evaluation.

Junior Research Analyst, Kiwoom Securities Co. – South Korea   Jan 2017–Aug 2017

- Built automated data pipelines using SQL, Excel (VBA), and Bloomberg Terminal to integrate macroeconomic and financial indicators for monitoring and analysis.
- Assisted senior economists by assisting forecasting models and risk dashboards in Excel and Tableau to track market trends and portfolio exposure, supporting institutional investment analyses.

Education

University of Kansas, Ph.D. Candidate in Sociology *(Expected Spring 2026)*	2019–Present.
University of Kansas Medical Center, M.S. in Applied Statistics, Analytics,& Data Science	2024–2025
Yonsei University, M.A. in Sociology	2014–2016
Kookmin University, B.A. in Sociology	2010–2014

Technical Skills

Programming & Data Management SQL (Snowflake, PostgreSQL), Python (Pandas, NumPy, scikit-learn), R, Stata, SAS, Excel (advanced, VBA automation)

Business Intelligence & Visualization: Tableau, Power BI, Excel dashboards, Microsoft Vision